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PRESIDENT'S WELCOME

Welcome to California State University, Sacramento.

We are a Hornet Family – a family of over 35,000 students, staff, and faculty. This academic year, I begin my tenure as the ninth President of Sacramento State, and for me, it is a homecoming. I am a proud alumnus of Sacramento State – a place that provided me with the skills, knowledge, and care that helped me to build the foundation for my life and work.

I am proud of the many accomplishments that have redefined Sacramento State since I was a student here. Our four-year and six-year graduation rates have risen dramatically, saving our students time and money. The WELL, our campus health and recreation center, offers numerous intramural sports, fitness and recreation programs, as well as robust physical and mental health support. We have a state-of-the-art Science Complex and Planetarium. One thing that has not changed is that Sacramento State is filled with faculty and staff who are here to support you and ensure that the education and experiences you have here, both in and outside of the classroom, help you to achieve your dreams. Everyone who works at Sacramento State is committed to you and cares about your success.

The catalog is designed to help you navigate your academic pathways to success throughout your time here at Sacramento State. It is a resource for courses, programs, and several academically related policies; following its guidelines will help you graduate on time. I am proud to welcome you to the 2023-2024 catalog, Sacramento State is where Leadership begins, and we truly embody what it means to support students along that journey.

Sincerely,

Luke Wood, President
THE CALIFORNIA PROMISE AT SACRAMENTO STATE

The California Promise Program (http://www.calstate.edu/sas/california-promise.shtml/) enables a specific number of CSU campuses to establish pledge programs for entering first-time students who are both interested and able to complete baccalaureate degrees in 4-years. All CSUs have established programs for students with Associate Degrees for Transfer from any California Community College to complete their baccalaureate degrees in 2-years. The program is limited to students who are residents of California.

Students who commit to enter either the 4-year or 2-year pledge will be given a priority registration appointment for each state-supported enrollment period and will be provided with routine and thorough academic advisement. In order to remain in the program, students must meet with their advisors as prescribed, develop an enrollment plan and complete 30 semester units or the quarter equivalent within each academic year, including summer. Participating CSUs may stipulate other requirements as well. Interested students entering the CSU should contact university offices or visit CalState.edu (http://www2.calstate.edu/apply/freshman/getting_into_the_csu/pages/the-california-promise-program.aspx).

At Sacramento State, the “California Promise” is delivered through the “Finish in Four” program for first-year students and the “Through in Two” program for transfer students. These programs provide incentives and support for students who commit to taking a minimum number of units per year with the goal of completing their degrees in 4 years or 2 years, respectively.

Only admitted, incoming first-year students are eligible for the pledge.

Commitment:

- Enrollment in at least 15 units per semester, or 30 units per year, including summer session classes, if needed.
- Use of Smart Planner to plan all courses through graduation.
- One appointment per semester with a general advisor, graduation advisor, or major advisor to review courses and degree planning.
- Keep “on-track” with degree road map as determined by the Academic Requirements Report.
- An overall GPA of at least 2.0 each semester of enrollment until the completion of your degree.

Benefits:

- Priority registration for fall semester, spring semester, and summer session classes to stay “on track.”
- Grants of up to $1,000 for summer session courses. *Summer grants are subject to funding.
- In-person appointments with an advisor each semester to review courses and degree progression.
- The Sac State Rewards Program, which provides additional incentives through vouchers and discounts on campus goods and services.

Only admitted, incoming transfer students are eligible for the pledge.

Commitment:

- Enrollment in at least 15 units per semester, or 30 units per year, as required to complete your bachelor’s degree, including summer session classes, if needed.
- Use of Smart Planner to plan all courses through graduation.
- One appointment per semester with a major advisor to review courses and degree planning.
- Keep “on-track” with degree road map as determined by the Academic Requirements Report.
- An overall GPA of at least 2.0 each semester of enrollment until the completion of your degree.

Benefits:

- Priority registration for fall semester, spring semester, and summer session classes to stay “on track.”
- Grants of up to $1,000 for summer session courses. *Summer grants are subject to funding.
- In-person appointments with an advisor each semester to review courses and degree progression.
- The Sac State Rewards Program, which provides additional incentives through vouchers and discounts on campus goods and services.
THE CALIFORNIA STATE UNIVERSITY

The California State University (CSU) is the nation’s largest and most diverse four-year public university. With 23 unique universities and seven off-campus centers, the CSU serves approximately 460,000 students and employs more than 56,000 faculty and staff.

Each year, the university awards nearly 130,000 degrees, changing the trajectory of students’ lives by opening doors to opportunities for upward mobility. Nearly one-third of CSU students are the first in their families to attend college and more than half of CSU students are from traditionally underrepresented backgrounds.

For one of the most affordable tuitions in the country, students learn from world-class faculty, gain valuable hands-on experiences and receive strong career advising, empowering them to become leaders in the changing workforce.

CSU graduates are serving as leaders in the industries that drive California’s economy, including business, agriculture, entertainment, engineering, teaching, hospitality and health care. To learn more, visit the California State University website.

A Tradition of Excellence for More than Five Decades

Since 1961, the CSU has provided an affordable, accessible and high-quality education to millions of Californians. While each university is unique based on its curricular specialties, location and culture, every CSU is distinguished for the quality of its educational programs. All CSUs are fully accredited, provide a high-quality, broad liberal educational program and offer opportunities for students to engage in university life through the Associated Students, Inc., clubs and service learning.

Facts

• Today, one in every 20 Americans with a college degree is a CSU graduate.
• 1 in every 10 employees in California is a CSU graduate.
• The CSU’s network of more than 4 million alumni is larger than the population of 23 U.S. states.
• The CSU awards nearly half of the bachelor’s degrees earned in California.
• The CSU awards more than one-third of California’s undergraduate nursing degrees.
• Between 2016 and 2021, the CSU prepared more of California’s teachers than any other state institution.
• About four percent of the nation’s teachers graduate from the CSU.
• In 2021-22, CSU students earned more than 20,000 business degrees and more than 7,500 engineering degrees.
• The CSU offers more than 4,000 degree programs that align with the state’s workforce demands.
• The CSU’s online concurrent enrollment program gives students the ability to enroll in courses offered by other universities in the CSU system.
• Through CSU community engagement centers, 52,000 student volunteers participated in service-learning, contributing 2 million hours of service in 2021-22.

Governance

The CSU is governed by the Board of Trustees, most of whom are appointed by the governor and serve with faculty and student representatives. The CSU chancellor is the chief executive officer, reporting to the board. The presidents serve as the university-level chief executive officers. The trustees, chancellor and presidents develop university-wide educational policy. The presidents, in consultation with the CSU Academic Senate and other university stakeholder groups, render and implement local policy decisions.

CSU Historical Milestones

The individual California State Colleges were established as a system with a Board of Trustees and a chancellor in 1960 by the Donahoe Higher Education Act. In 1972, the system was designated as the California State University and Colleges, and in 1982 the system became the California State University (CSU). Today, the CSU is comprised of 23 member universities, including comprehensive and polytechnic universities and, since July 1995, the California State University Maritime Academy, a specialized university.

The oldest university — San José State University — was founded in 1857 and became the first institution of public higher education in California. The newest — California State University Channel Islands — opened in fall 2002, with freshmen arriving in fall 2003. And in 2022, the CSU in Humboldt became California State Polytechnic University, Humboldt, joining San Luis Obispo and Pomona as the state’s third public polytechnic university.

In 1963, the CSU’s Academic Senate was established to act as the official voice of CSU faculty in university-wide matters. Also, the California State College Student Presidents Association — which was later renamed the California State Student Association (CSSA), was founded to represent each university student association on issues affecting students.

Through its many decades of service, the CSU has continued to adapt to address societal changes, student needs and workforce trends. While the CSU’s core mission has always focused on providing high-quality, affordable bachelor’s and master’s degree programs, over time the university has added a wide range of services and programs to support student success — from adding health centers and special programs for veterans to building student residential facilities to provide a comprehensive educational experience.

In 2010, in an effort to accommodate community college transfer students, the CSU, in concert with the California Community Colleges (CCC), launched the Associate Degree for Transfer (ADT), which guarantees CCC transfer students with an ADT admission to the CSU with junior status. The ADT has since proven to be one of the most effective paths to a CSU for community college transfer students. In 2023, the CSU will launch the Transfer Success Pathway program to guarantee future CSU admission to high school graduates who are entering a California community college and who commit to transferring within three years.

Always adapting to changes in technology and societal trends to support student learning and degree completion, the CSU launched CSU Fully Online, which enables CSU students to complete online courses at other CSUs, expanding enrollment opportunities and providing more educational opportunities for students who may prefer an online format to a traditional classroom setting.

The CSU marked a significant educational milestone when it broadened its degree offerings to include professional doctoral degrees. The CSU
Campuses of the California State University independently offers Doctor of Education (Ed.D.), Doctor of Physical Therapy (DPT), Doctor of Audiology (AuD), Doctor of Nursing Practice (DNP) and Doctor of Occupational Therapy (OTD) degree programs. Additionally, the CSU was recently authorized to offer the independent Doctor of Public Health (DrPH). A limited number of other doctoral degrees are offered jointly with the University of California and private institutions in California.

The CSU strives to continually develop innovative programs, services and opportunities that will give students the tools they need to meet their full potential. In 2016, the CSU system launched Graduation Initiative 2025, a bold plan to support students, increase the number of California’s graduates earning high-quality degrees and eliminate achievement and equity gaps for all students. Through this initiative, the CSU is ensuring that all students have the opportunity to graduate according to their personal goals, positively impacting their lives, families and communities.

By providing an accessible, hands-on education that prepares graduates for career success, the CSU has created a network of alumni so extensive and renowned that it spans across the globe. More than 4 million CSU alumni are making a difference in the lives of the people of California and the world.

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The California State University
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Mr. Steve Relyea – Executive Vice Chancellor and Chief Financial Officer
Mr. Andrew Jones – Executive Vice Chancellor, General Counsel
Ms. Leora D. Freeman – Vice Chancellor, Human Resources
Mr. Vlad Marinescu – Vice Chancellor and Chief Audit Officer
Dr. Nathan Evans – Deputy Vice Chancellor, Academic and Student Affairs
Dr. Dilcie Perez – Deputy Vice Chancellor, Academic and Student Affairs
Ms. Jessica Darin – Interim Chief of Staff
Ms. Michelle Kiss – Associate Vice Chancellor and Chief of Staff, Board of Trustees

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The Honorable Eleni Kounalakis
Lieutenant Governor of California
The Honorable Anthony Rendon
Speaker of the Assembly
The Honorable Tony Thurmond
State Superintendent of Public Instruction
Dr. Jolene Koester
Interim Chancellor of The California State University

Appointed Trustees
Appointments are for a term of eight years, except student, alumni, and faculty trustees whose terms are for two years. Terms expire in the year in parentheses. Names are listed alphabetically.

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*Interim
ABOUT THE UNIVERSITY

California State University, Sacramento

California State University, Sacramento offers life-changing possibilities for our students, preparing them to be leaders in their careers and communities. Our professors are known for their dedication to great teaching, and direct interaction with students helps to create extensive learning and research opportunities. Sacramento State's location in California's capital city also provides access to internships and job opportunities with some of the nation's most influential public and private institutions.

A vibrant, metropolitan university, Sacramento State enrolls a multicultural student body and graduates about 7,000 students each year. The University has an annual economic impact on the region of nearly $900 million and more than $1 billion on the statewide economy.

Sacramento State remains one of the nation's best higher education values, with student tuition fees among the lowest in the nation. About half of our students receive some form of financial assistance.

Our students choose from numerous fields of study. We offer a strong and diverse academic curriculum that includes nearly 60 undergraduate programs and more than 40 graduate programs, as well as two doctorates. In addition, numerous offerings, such as the Honors Program, help students pursue excellence, meet others with similar interests and develop strong ties with professors. Among our programs linked to state government is the nationally renowned Capital Fellows Program, in which graduate students work as full-time staff in the legislative, executive or judicial branch.

Preparing for a career is a vital part of a Sacramento State education. We have one of the largest cooperative education programs in California, placing students in paid positions where they receive academic credit. Hundreds of other students participate in internships in business and government. One third of Sacramento State students work as volunteers – many through a service-learning project in class gaining valuable work experience while helping their community. Our Career Center helps students with identifying a career interest, developing interview skills and finding jobs through the extensive Hornet Career Connection, a partnership with local and global employers. Numerous academic programs also have direct links to employers that recruit directly on campus.

Outside the classroom, Sacramento State students lead active lives. Campus-sponsored arts programs, speeches, debates, comedy shows and concerts enrich the community throughout the year, and there are abundant cultural and entertainment options in the surrounding area. More than half the University's students join at least one of 250 student organizations, and thousands participate in the intramural sports program. About 400 intercollegiate athletes compete at the NCAA Division I level.

We're particularly proud of our beautiful 300-acre campus, with its lush landscaping and more than 3,500 trees. Sacramento State also has recently completed the two greenest buildings in the history of the University. The American River Courtyard is a suite-style residence hall on campus that offers amenities such as private bedrooms, kitchenettes and in-suite bathrooms for students. The WELL, a state-of-the-art recreation and wellness center, combines gym space, fitness equipment, medical facilities, an indoor track and a large rock-climbing wall. Both buildings are LEED Gold certified for their energy-saving and sustainability features.

Miles of riverfront trails for runners and bicyclists stretch along the adjacent American River Parkway, linking our campus and student housing with recreational areas such as Folsom Lake and Old Sacramento.

For more information, visit www.csus.edu.

University Mission and Strategic Planning

As California's capital university, we transform lives by preparing students for leadership, service, and success. Sacramento State will be a recognized leader in education, innovation, and engagement.

Our campus imperatives are Student Success, Philanthropy, Diversity & Inclusion, Public Safety, and Community Engagement.

Hornet Honor Code

As proud members and representatives of the Sacramento State Hornet community, we commit ourselves to actively promoting honesty, integrity, respect, and care for every person, ensuring a welcoming campus environment, and striving to help every member of our Hornet Family feel a strong sense of belonging.

As Hornets, we will:

1. Promote an inclusive campus and community.
2. Listen and respect each other's thoughts, interests, and views.
3. Value diversity and learn from one another.
4. Engage daily with mutual trust, care, and integrity.
5. Support a culture of honor and adhere to campus policies for honesty, ethics, and conduct.
6. Be proud to be Sac State Hornets

University Foundation at Sacramento State

The Foundation is an organization that was established to help raise and invest private gifts for the benefit of Sacramento State. It encourages philanthropy to the University and also provides a structure for accepting and managing gifts and endowments on behalf of Sac State.

Mission Statement

The University Foundation at Sacramento State promotes philanthropy to provide a level of excellence at the University beyond what is possible through state funds.

The members of the board of directors of The University Foundation accomplish this goal by helping to raise private resources that advance the mission and priorities of the University, and serving as ambassadors for philanthropy in the University community. The board provides stewardship in the prudent investment of resources, ensuring the integrity of the Foundation through accountability and transparency in its dealings.

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Vacant (Faculty Representative)  
Samantha Elizalde (Student Representative)

### Administrative Officers

#### Office of the President

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
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<tr>
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<tr>
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</table>

#### Academic Affairs

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<tr>
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<tr>
<td>Position</td>
<td>Name</td>
<td>Phone</td>
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<tr>
<td>Associate Dean of the University Library</td>
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</table>

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
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<tr>
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</tbody>
</table>

**Human Resources**

Web site: www.csus.edu/hr/ (http://www.csus.edu/hr/)

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<tr>
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<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Director, Benefits</td>
<td>Scott Oleinik</td>
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<tr>
<td>Director, Classification &amp; Compensation</td>
<td>Michelle Dungca</td>
<td>916-278-6858</td>
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<tr>
<td>Director, Learning &amp; Development</td>
<td>Beverly Gentry</td>
<td>916-278-7460</td>
</tr>
<tr>
<td>Director, Payroll</td>
<td>Margaret Lee</td>
<td>916-278-5597</td>
</tr>
<tr>
<td>Director, Talent Acquisition</td>
<td>Mellonie Richardson</td>
<td>916-278-5613</td>
</tr>
</tbody>
</table>

**Inclusive Excellence**

Vice President for Inclusive Excellence, and University Diversity Officer | Mia Settles-Tidwell | 916-278-4796 |

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Vice President and Director, Office of Cultural Transformation</td>
<td>Michael Nguyen</td>
<td>916-278-4796</td>
</tr>
<tr>
<td>Director of Belonging Education, and Support</td>
<td>Katherine Betts</td>
<td>916-278-4210</td>
</tr>
<tr>
<td>Director of Faculty Diversity &amp; Inclusion</td>
<td>Lina Rincon</td>
<td>916-278-4193</td>
</tr>
<tr>
<td>Director of Learning &amp; Unlearning</td>
<td>Robert Reyes</td>
<td>916-278-4665</td>
</tr>
<tr>
<td>Director of Universal Access &amp; Inclusion</td>
<td>Jennifer Murchison</td>
<td>916-278-4664</td>
</tr>
<tr>
<td>Director of Equal Opportunity and Title IX Coordinator</td>
<td>Skip Bishop</td>
<td>916-278-5770</td>
</tr>
</tbody>
</table>

**Administration and Business Affairs**

Vice President for Administration/Chief Financial Officer | Jonathan Bowman | 916-278-6312 |

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Phone</th>
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</thead>
<tbody>
<tr>
<td>Senior Associate Vice President, Human Resources</td>
<td>Machelle Martin</td>
<td>916-278-6078</td>
</tr>
</tbody>
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**Human Resources**

Web site: www.csus.edu/hr/ (http://www.csus.edu/hr/)

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>Director, Academic Labor Relations</td>
<td>VeRonica Dupree</td>
<td>916-278-2913</td>
</tr>
<tr>
<td>Director, Benefits</td>
<td>Scott Oleinik</td>
<td>916-278-6213</td>
</tr>
<tr>
<td>Director, Classification &amp; Compensation</td>
<td>Michelle Dungca</td>
<td>916-278-6858</td>
</tr>
<tr>
<td>Director, Learning &amp; Development</td>
<td>Beverly Gentry</td>
<td>916-278-7460</td>
</tr>
<tr>
<td>Director, Payroll</td>
<td>Margaret Lee</td>
<td>916-278-5597</td>
</tr>
<tr>
<td>Director, Talent Acquisition</td>
<td>Mellonie Richardson</td>
<td>916-278-5613</td>
</tr>
</tbody>
</table>

**Inclusive Excellence**

Vice President for Inclusive Excellence, and University Diversity Officer | Mia Settles-Tidwell | 916-278-4796 |

<table>
<thead>
<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Associate Vice President and Director, Office of Cultural Transformation</td>
<td>Michael Nguyen</td>
<td>916-278-4796</td>
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<tr>
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<td>916-278-4664</td>
</tr>
<tr>
<td>Director of Equal Opportunity and Title IX Coordinator</td>
<td>Skip Bishop</td>
<td>916-278-5770</td>
</tr>
<tr>
<td>Position</td>
<td>Name</td>
<td>Phone</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>--------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Interim Associate Director or Equal Opportunity</td>
<td>Stephanie Cruz</td>
<td>916-278-6648</td>
</tr>
<tr>
<td><strong>Student Affairs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vice President/Chief Enrollment Officer (Interim)</td>
<td>Jenni Murpy</td>
<td>916-278-6060</td>
</tr>
<tr>
<td>Senior Associate Vice President, Student Health &amp; Counseling Services (SHCS)</td>
<td>Vacant</td>
<td>916-278-6035</td>
</tr>
<tr>
<td>Associate Vice President, Dean of Students</td>
<td>Bill Herbert</td>
<td>916-278-6060</td>
</tr>
<tr>
<td>Associate Vice President, Enrollment and Student Services</td>
<td>Steven Salcido</td>
<td>916-278-6060</td>
</tr>
<tr>
<td>Associate Vice President, Student Retention &amp; Academic Success</td>
<td>Marcellene Watson-Derbigny</td>
<td>916-278-6183</td>
</tr>
<tr>
<td>Associate Vice President, Strategic Partnerships</td>
<td>Bill Macriss</td>
<td>916-278-6060</td>
</tr>
<tr>
<td>Associate Vice President, Strategic Student Support Programs</td>
<td>Vacant</td>
<td>916-278-7241</td>
</tr>
<tr>
<td>Assistant Vice President, Strategic Success Initiatives</td>
<td>Tina Jordan</td>
<td>916-278-6740</td>
</tr>
<tr>
<td>Executive Director, University Housing Services</td>
<td>Samuel Jones</td>
<td>916-278-6655</td>
</tr>
<tr>
<td>Director, Academic Advising</td>
<td>Miesha Williams</td>
<td>916-278-1000</td>
</tr>
<tr>
<td>Director, Admissions &amp; Outreach</td>
<td>Brian Henley</td>
<td>916-278-7766</td>
</tr>
<tr>
<td>Executive Director, Associated Students, Inc.</td>
<td>Sandra Gallardo</td>
<td>916-278-7290</td>
</tr>
<tr>
<td>Director, ASI Aquatics Center</td>
<td>Brian Dulgar</td>
<td>916-278-2842</td>
</tr>
<tr>
<td>Director, ASI Children's Center</td>
<td>Sherry Velte</td>
<td>916-278-5120</td>
</tr>
<tr>
<td>Director, ASI Finance &amp; Administration</td>
<td>Mark Montalvo</td>
<td>916-278-7917</td>
</tr>
<tr>
<td>Director, ASI Peak Adventures</td>
<td>Sasha Smirnova</td>
<td>916-278-5382</td>
</tr>
<tr>
<td>Director, ASI Student Engagement &amp; Outreach</td>
<td>Wil Chen</td>
<td>916-278-4148</td>
</tr>
<tr>
<td>Director, Business Operations</td>
<td>Karyl Burwell</td>
<td>916-278-6060</td>
</tr>
<tr>
<td>Director, Career Center</td>
<td>Melissa Repa</td>
<td>916-278-6231</td>
</tr>
<tr>
<td>Director, Counseling &amp; Psychological Services (SHCS)</td>
<td>Ron Lutz</td>
<td>916-278-7358</td>
</tr>
<tr>
<td>Director, Equity and Affinity Centers</td>
<td>Erik Ramirez</td>
<td>916-278-4512</td>
</tr>
<tr>
<td>Director, Financial Aid &amp; Scholarships</td>
<td>Tina Lent</td>
<td>916-278-6074</td>
</tr>
<tr>
<td>Director, Health Services (SHCS)</td>
<td>Dan Carssel</td>
<td>916-278-6030</td>
</tr>
<tr>
<td>Director, Parents &amp; Families Program</td>
<td>Haley Myers Dillon</td>
<td>916-278-4353</td>
</tr>
<tr>
<td>Director, Student-Athlete Resource Center</td>
<td>Paul Edwards</td>
<td>916-278-7796</td>
</tr>
<tr>
<td>Assistant Dean of Students/Student Conduct Director</td>
<td>Tom Carroll</td>
<td>916-278-4056</td>
</tr>
<tr>
<td>Director, Student Organizations &amp; Leadership</td>
<td>Nicki Croly</td>
<td>916-278-6595</td>
</tr>
<tr>
<td>Director, Student Affairs Technology &amp; Imaging</td>
<td>Susana Valdez</td>
<td>916-278-7707</td>
</tr>
<tr>
<td>Director, Student Service Center</td>
<td>Jeff Weston</td>
<td>916-278-1000</td>
</tr>
<tr>
<td>Director, Veterans Success Center</td>
<td>Austin Sihoe</td>
<td>916-278-7740</td>
</tr>
<tr>
<td>Director, Services to Students with Disabilities/Testing Center</td>
<td>Mary Leevance</td>
<td>916-278-6955</td>
</tr>
<tr>
<td>University Registrar</td>
<td>Tara Hardee Teodoro</td>
<td>916-278-7748</td>
</tr>
<tr>
<td>Executive Director, Union WELL, Inc.</td>
<td>Bill Olmsted</td>
<td>916-278-2242</td>
</tr>
<tr>
<td>Director, The WELL</td>
<td>Kate Smith</td>
<td>916-278-2241</td>
</tr>
<tr>
<td><strong>University Advancement</strong></td>
<td></td>
<td></td>
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<tr>
<td>Interim Vice President, University Advancement</td>
<td>Sharon Takeda</td>
<td>916-278-7043</td>
</tr>
<tr>
<td>Associate Vice President, University Development</td>
<td>Tracy Latino Newman</td>
<td>916-278-2835</td>
</tr>
<tr>
<td>Assistant Vice President, Alumni Relations/Annual Giving</td>
<td>Jennifer Barber</td>
<td>916-278-3634</td>
</tr>
<tr>
<td>Executive Director of Principal Gifts and Campaign</td>
<td>E. Antoinette Vojtech</td>
<td>916-278-4912</td>
</tr>
<tr>
<td>Executive Director of Annual Giving</td>
<td></td>
<td>916-278-3922</td>
</tr>
<tr>
<td>Director of Advancement Services, Stewardship, and Planned Giving</td>
<td>Lisa Woodard-Mink</td>
<td>916-278-3852</td>
</tr>
</tbody>
</table>
## University Auxiliary Organizations

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Executive Director, Associated Students, Inc.</td>
<td>Sandra Gallardo</td>
<td>916-278-7290</td>
</tr>
<tr>
<td>Executive Director, University Enterprises, Inc.</td>
<td>James Reinhart</td>
<td>916-278-7001</td>
</tr>
<tr>
<td>Board Chair, The University Foundation at Sacramento State</td>
<td>Holly Tiche</td>
<td>916-278-7043</td>
</tr>
<tr>
<td>Executive Director, Union WELL, Inc.</td>
<td>Bill Olmsted</td>
<td>916-278-2242</td>
</tr>
</tbody>
</table>
California State University, Sacramento is fully accredited by the Western Association of Schools and Colleges, and for teacher education by the California Commission on Teacher Credentialing; the University is also a member of the National Council of Graduate Schools and the Western Association of Graduate Schools, and is on the list of approved colleges by the American Association of University Women.

Notice to Students RE: Professional Licensure and Certification
California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students enrolled in a California State University program who are planning to pursue licensure or certification in other states are responsible for determining whether they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

The following is a list of individually accredited programs:

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
<th>Accreditation</th>
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<tbody>
<tr>
<td><strong>College of Arts and Letters</strong></td>
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<tr>
<td>Art</td>
<td>BA, MA</td>
<td>National Association of Schools of Art and Design</td>
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<tr>
<td>Art History</td>
<td>BA</td>
<td>National Association of Schools of Art and Design</td>
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<tr>
<td>Design Studies</td>
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<td>National Association of Schools of Art and Design</td>
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<tr>
<td>Graphic Design</td>
<td>BFA</td>
<td>National Association of Schools of Art and Design</td>
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<tr>
<td>Interior Architecture</td>
<td>BFA</td>
<td>National Association of Schools of Art and Design</td>
</tr>
<tr>
<td>Music</td>
<td>BA, BM, MM</td>
<td>National Association of Schools of Music</td>
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<tr>
<td>Photography</td>
<td>BFA</td>
<td>National Association of Schools of Art and Design</td>
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<tr>
<td><strong>College of Business</strong></td>
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<tr>
<td>Accountancy</td>
<td>MS</td>
<td>Association to Advance Collegiate Schools of Business</td>
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<tr>
<td>Business</td>
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<tr>
<td>Business Analytics</td>
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<td>Finance</td>
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<tr>
<td><strong>College of Education</strong></td>
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<td>Counseling</td>
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<tr>
<td>School Psychology</td>
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<td>National Association of School Psychologists</td>
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<tr>
<td><strong>College of Engineering and Computer Science</strong></td>
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<tr>
<td>Civil Engineering</td>
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<td>Computer Engineering</td>
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<td>Computer Science</td>
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<td>Construction Management</td>
<td>BS</td>
<td>American Council for Construction Education</td>
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<tr>
<td>Electrical and Electronic Engineering</td>
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<td>Accreditation Board for Engineering and Technology</td>
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<tr>
<td>Mechanical Engineering</td>
<td>BS</td>
<td>Accreditation Board for Engineering and Technology</td>
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<tr>
<td><strong>College of Health and Human Services</strong></td>
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<tr>
<td>Audiology</td>
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<td>Accreditation Commission for Audiology Education</td>
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<tr>
<td>Audiology</td>
<td>AUD</td>
<td>Council on Academic Accreditation in Audiology and Speech-Language Pathology</td>
</tr>
<tr>
<td>Communication Science and Disorders</td>
<td>MS</td>
<td>American Speech-Language-Hearing Association</td>
</tr>
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<td>Program</td>
<td>Degree</td>
<td>Accreditation Body</td>
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<tr>
<td>Nursing</td>
<td>BSN, MSN</td>
<td>Commission on Collegiate Nursing Education and CA Board of Registered Nursing</td>
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<tr>
<td>Physical Therapy</td>
<td>DPT</td>
<td>Commission on Accreditation in Physical Therapy Education (CAPTE)</td>
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<tr>
<td>Recreation Administration</td>
<td>BS</td>
<td>Council on Accreditation of Parks, Recreation, Tourism and Related Professions</td>
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<tr>
<td>Recreation Therapy</td>
<td>BS</td>
<td>Council on Accreditation of Parks, Recreation, Tourism and Related Professions</td>
</tr>
<tr>
<td>Social Work</td>
<td>BA, MSW</td>
<td>Council of Social Work Education</td>
</tr>
<tr>
<td>College of Social Science and Interdisciplinary Studies</td>
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<tr>
<td>Nutrition and Food</td>
<td>BA (Didactic Program in Dietetics &amp; Dietetic Internship)</td>
<td>Accreditation Council for Education in Nutrition and Dietetics</td>
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</tbody>
</table>
# Academic Calendars

## Academic Calendar - Spring 2023

Please call (916) 278-1000 (Option 4) for registration inquiries.

For more information about Commencement, such as the Commencement schedule, please visit the Commencement website [http://www.csus.edu/commencement/](http://www.csus.edu/commencement/).

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>June 2022</td>
<td>Spring 2023 Schedule Available at My Sac State</td>
</tr>
<tr>
<td>November 14 – December 18, 2022</td>
<td>Spring 2023 Registration for continuing students in class level priority order</td>
</tr>
<tr>
<td>December 19, 2022 - January 3, 2023</td>
<td>Spring 2023 Registration unavailable</td>
</tr>
<tr>
<td>January 3-11, 2023</td>
<td>New Transfer Student Orientation and Registration</td>
</tr>
<tr>
<td>January 16, 2023</td>
<td>Martin Luther King, Jr. Day (Holiday, Campus Closed)</td>
</tr>
<tr>
<td>January 12-19, 2023</td>
<td>Spring 2023 Open Registration and Change of Schedule resumes</td>
</tr>
<tr>
<td>January 18, 2023</td>
<td>Spring 2023 Semester Begins (Faculty)</td>
</tr>
<tr>
<td>January 18-20, 2023</td>
<td>University-wide and/or College Meetings (Academic Workdays)</td>
</tr>
<tr>
<td>January 20-22, 2023</td>
<td>Spring 2023 Registration unavailable</td>
</tr>
<tr>
<td>January 23, 2023</td>
<td>Instruction Begins</td>
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<tr>
<td>January 23 - February 3, 2023</td>
<td>Spring 2023 Late Registration and Schedule Adjustment</td>
</tr>
<tr>
<td>February 4-17, 2023</td>
<td>Spring 2023 Late Registration and Change of Schedule completed by petition at departments</td>
</tr>
<tr>
<td>February 20, 2023</td>
<td>Presidents’ Day (Holiday Observed in December 2023) Campus Open and Classes Held</td>
</tr>
<tr>
<td>February 17, 2023</td>
<td>Census Date</td>
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<tr>
<td>March 20-26, 2023</td>
<td>Spring Recess</td>
</tr>
<tr>
<td>March 31, 2023</td>
<td>Cesar Chavez Birthday Observed (Holiday, Campus Closed)</td>
</tr>
<tr>
<td>May 12, 2023</td>
<td>Last Day of Instruction</td>
</tr>
<tr>
<td>May 15-19, 2023</td>
<td>Finals Week</td>
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<tr>
<td>May 19-21, 2023</td>
<td>Commencement</td>
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<tr>
<td>May 22-24, 2023</td>
<td>Evaluation Days (Academic Workdays)</td>
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<tr>
<td>May 24, 2023</td>
<td>Last Day of Academic Year; Spring Grades Due</td>
</tr>
<tr>
<td>May 29, 2023</td>
<td>Memorial Day (Holiday, Campus Closed)</td>
</tr>
<tr>
<td>March 31, 2023</td>
<td>Cesar Chavez Day (Holiday, Campus Closed)</td>
</tr>
<tr>
<td>April 3, 2023</td>
<td>Summer 2023 Priority Registration</td>
</tr>
<tr>
<td>April 10, 2023</td>
<td>Summer 2023 open registration begins</td>
</tr>
<tr>
<td>April 17, 2023</td>
<td>Fall 2023 registration appointments viewable in Student Center</td>
</tr>
<tr>
<td>April 24, 2023</td>
<td>Fall 2023 Continuing student registration begins (by assigned registration appointment)</td>
</tr>
<tr>
<td>May 29, 2023</td>
<td>Memorial Day (campus closed)</td>
</tr>
<tr>
<td>May 30, 2023</td>
<td>Summer 2023 session begins (6W1 and Summer 12W)</td>
</tr>
<tr>
<td>June 12 - 28, 2023</td>
<td>New student transfer orientation</td>
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<tr>
<td>June 19, 2023</td>
<td>Juneteenth (Holiday, campus closed)</td>
</tr>
<tr>
<td>July 4, 2023</td>
<td>Independence Day (Holiday, Campus Closed)</td>
</tr>
<tr>
<td>July 9, 2023</td>
<td>Summer 2023 Instruction ends (6W1)</td>
</tr>
<tr>
<td>July 10, 2023</td>
<td>Summer 2023 Instruction begins (6W2)</td>
</tr>
<tr>
<td>July 11, 2023</td>
<td>Summer 2023 6W1 grades due</td>
</tr>
<tr>
<td>July 14 - Aug 3, 2023</td>
<td>Freshman Orientation and registration</td>
</tr>
<tr>
<td>August 20, 2023</td>
<td>Summer 2023 term end (12W and 6W2)</td>
</tr>
<tr>
<td>August 22, 2023</td>
<td>Summer 2023 (12W and 6W2) grades due</td>
</tr>
<tr>
<td>August 23, 2023</td>
<td>Fall 2023 Semester Begins (Faculty)</td>
</tr>
<tr>
<td>August 23 - 25, 2023</td>
<td>University-wide and/or College Meetings (Academic Workdays)</td>
</tr>
<tr>
<td>August 27, 2023</td>
<td>All waitlists eliminated</td>
</tr>
<tr>
<td>August 28, 2023</td>
<td>Fall 2023 instruction begins</td>
</tr>
<tr>
<td>August 28 - September 8, 2023</td>
<td>Fall 2023 Late registration and schedule adjustment</td>
</tr>
<tr>
<td>September 4, 2023</td>
<td>Labor Day (Holiday, Campus Closed)</td>
</tr>
<tr>
<td>September 9 - 25, 2023</td>
<td>Fall 2023 late registration and change of schedule done by petition at departments</td>
</tr>
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</tr>
<tr>
<td>December 8, 2023</td>
<td>Fall 2023 Last day of instruction</td>
</tr>
<tr>
<td>December 11 - 15, 2023</td>
<td>Fall 2023 Final's week</td>
</tr>
<tr>
<td>December 25 - January 1</td>
<td>Campus Closed</td>
</tr>
<tr>
<td>January 2, 2024</td>
<td>Fall 2023 grades due</td>
</tr>
</tbody>
</table>

## Academic Calendar - Fall 2023

Please call (916) 278-1000 (Option 4) for registration inquiries.

For more information about Commencement, such as the Commencement schedule, please visit the Commencement website [http://www.csus.edu/commencement/](http://www.csus.edu/commencement/).

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 2023</td>
<td>Fall 2023 Schedule Available via My Sac State</td>
</tr>
<tr>
<td>March - April, 2023</td>
<td>Departmental and Academic Advising</td>
</tr>
<tr>
<td>March 31, 2023</td>
<td>Cesar Chavez Day (Holiday, Campus Closed)</td>
</tr>
<tr>
<td>April 3, 2023</td>
<td>Summer 2023 Priority Registration</td>
</tr>
<tr>
<td>April 10, 2023</td>
<td>Summer 2023 open registration begins</td>
</tr>
<tr>
<td>April 17, 2023</td>
<td>Fall 2023 registration appointments viewable in Student Center</td>
</tr>
<tr>
<td>April 24, 2023</td>
<td>Fall 2023 Continuing student registration begins (by assigned registration appointment)</td>
</tr>
<tr>
<td>May 29, 2023</td>
<td>Memorial Day (campus closed)</td>
</tr>
<tr>
<td>May 30, 2023</td>
<td>Summer 2023 session begins (6W1 and Summer 12W)</td>
</tr>
<tr>
<td>June 12 - 28, 2023</td>
<td>New student transfer orientation</td>
</tr>
<tr>
<td>June 19, 2023</td>
<td>Juneteenth (Holiday, campus closed)</td>
</tr>
<tr>
<td>July 4, 2023</td>
<td>Independence Day (Holiday, Campus Closed)</td>
</tr>
<tr>
<td>July 9, 2023</td>
<td>Summer 2023 Instruction ends (6W1)</td>
</tr>
<tr>
<td>July 10, 2023</td>
<td>Summer 2023 Instruction begins (6W2)</td>
</tr>
<tr>
<td>July 11, 2023</td>
<td>Summer 2023 6W1 grades due</td>
</tr>
<tr>
<td>July 14 - Aug 3, 2023</td>
<td>Freshman Orientation and registration</td>
</tr>
<tr>
<td>August 20, 2023</td>
<td>Summer 2023 term end (12W and 6W2)</td>
</tr>
<tr>
<td>August 22, 2023</td>
<td>Summer 2023 (12W and 6W2) grades due</td>
</tr>
<tr>
<td>August 23, 2023</td>
<td>Fall 2023 Semester Begins (Faculty)</td>
</tr>
<tr>
<td>August 23 - 25, 2023</td>
<td>University-wide and/or College Meetings (Academic Workdays)</td>
</tr>
<tr>
<td>August 27, 2023</td>
<td>All waitlists eliminated</td>
</tr>
<tr>
<td>August 28, 2023</td>
<td>Fall 2023 instruction begins</td>
</tr>
<tr>
<td>August 28 - September 8, 2023</td>
<td>Fall 2023 Late registration and schedule adjustment</td>
</tr>
<tr>
<td>September 4, 2023</td>
<td>Labor Day (Holiday, Campus Closed)</td>
</tr>
<tr>
<td>September 9 - 25, 2023</td>
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Assembly Bill 720 signed by the Governor and effective January 1, 2006, requires CSU to observe the Veterans’ Day Holiday, November 11, and close the University on that day. When November 11 falls on Saturday, the holiday will be observed on the preceding Friday. When November 11 falls on a Sunday, the holiday will be observed on the following Monday.

**Academic Calendar - Spring 2024**

Please call (916) 278-1000 (Option 4) for registration inquiries.

For more information about Commencement, such as the Commencement schedule, please visit the Commencement website (http://www.csus.edu/commencement/).

June 2023
- Spring 2024 Schedule Available at My Sac State

November 13 – December 21, 2023
- Spring 2024 Registration for continuing students in class level priority order

December 22, 2023 - January 2, 2024
- Spring 2024 Registration unavailable

January 3-11, 2024
- New Transfer Student Orientation and Registration (tentative)

January 15, 2024
- Martin Luther King, Jr. Day (Holiday, Campus Closed)

January 12-19, 2024
- Spring 2024 Open Registration and Change of Schedule resumes

January 17, 2024
- Spring 2024 Semester Begins (Faculty)

January 17-19, 2024
- University-wide and/or College Meetings (Academic Workdays)

January 22, 2024
- Instruction Begins

January 22 - February 2, 2024
- Spring 2024 Late Registration and Schedule Adjustment

February 3-16, 2024
- Spring 2024 Late Registration and Change of Schedule completed by petition at departments

February 19, 2024
- Presidents’ Day (Holiday Observed in December 2024)

February 16, 2024
- Census Date

March 2024
- Spring Recess

April 1, 2024
- Cesar Chavez Birthday Observed (Holiday, Campus Closed)

May 10, 2024
- Last Day of Instruction

May 13-17, 2024
- Finals Week

May 17-19, 2024
- Commencement

May 20-22, 2024
- Evaluation Days (Academic Workdays)

May 22, 2024
- Last Day of Academic Year; Spring Grades Due

May 27, 2024
- Memorial Day (Holiday, Campus Closed)

March 2024
- Fall 2024 Schedule Available at My Sac State

March - April, 2024
- Departmental and Academic Advising

April 1, 2024
- Summer 2024 Priority Registration Opens

April 8, 2024
- Summer 2024 Open Registration

April 22 - May 10, 2024
- Fall 2024 Priority Registration for continuing students based on enrollment appointment

May 27, 2024
- Memorial Day (Campus Closed)

May 28, 2024
- Summer Session Begins (Summer 6W1 and Summer 12W)

May 31 - June 10, 2024
- Fall 2024 Registration resumes for continuing students

June 2024
- Transfer student orientation and registration (tentative)

June 19, 2024
- Juneteenth (Holiday, campus closed)

July 4, 2024
- Independence Day (Holiday, Campus Closed)

July 2024
- Freshman orientation and registration

July 7, 2024
- Instruction Ends (Summer 6W1)

July 8, 2024
- Summer Session Begins (Summer 6W2)

July 9, 2024
- Summer 6W1 Grades Due

August 6-7, 2024
- Fall 2024 registration unavailable

August 18, 2024
- Instruction Ends (Summer 6W2 and Summer 12W)

August 20, 2024
- Summer 6W2 and Summer 12W Grades Due

August 21, 2024
- Academic Year Begins

August 21 - 23, 2024
- University-wide and/or College Meetings (Academic Workdays)

August 25, 2024
- Fall 2024 Waitlists Eliminated

August 26, 2024
- Fall 2024 Instruction Begins

August 26 - Sept 6, 2024
- Fall 2024 Late Registration and Schedule Adjustment

September 2, 2024
- Labor Day (Holiday Campus Closed)

September 7-20, 2024
- Fall 2024 Late Registration and Change of Schedule done by electronic form via OnBase

September 23, 2024
- Census Date

October 10, 2024
- Indigenous People’s Day (Holiday Observed December 2024)

November 11, 2024
- Veteran’s Day (Holiday, Campus Closed)

November 28-29, 2024
- Thanksgiving Holiday (Holiday, Campus Closed)

December 6, 2024
- Last Day of Instruction

December 9-13, 2024
- Finals Week

December 23, 2024 - January 2, 2025
- Winter Recess (Students)

December 25, 2024
- Christmas Day (Holiday Observed, Campus Closed)

December 26, 2024
- Admissions Day Observed (Holiday, Campus Closed)

December 27, 2024
- Indigenous People’s Day Observed (Holiday, Campus Closed)
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 30, 2024</td>
<td>Lincoln's Birthday Observed (Holiday, Campus Closed)</td>
</tr>
<tr>
<td>December 31, 2024</td>
<td>President's Day Observed (Holiday, Campus Closed)</td>
</tr>
<tr>
<td>January 1, 2025</td>
<td>New Year’s Day (Holiday, Campus Closed)</td>
</tr>
<tr>
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<td>January 3-17, 2025</td>
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1 Assembly Bill 720 signed by the Governor and effective January 1, 2006, requires CSU to observe the Veterans' Day Holiday, November 11, and close the University on that day. When November 11 falls on Saturday, the holiday will be observed on the preceding Friday. When November 11 falls on a Sunday, the holiday will be observed on the following Monday.
ACADEMIC POLICIES

Changes in Rules and Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time and that these changes might alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by The Board of Trustees of the California State University, by the Chancellor or designee of the California State University, or by the President or designee of the campus. It is not possible in a publication of this size to include all of the rules, policies and other information that pertain to students, the institution, and the California State University. More current or complete information may be obtained from the appropriate department, school, or administrative office.

Nothing in this catalog shall be construed as, operate as or have the effect of an abridgment or a limitation of any rights, powers, or privileges of The Board of Trustees of the California State University, the Chancellor of the California State University, or the President of the campus. The Trustees, the Chancellor, and the President are authorized by law to adopt, amend, or repeal rules and policies that apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the campus or the California State University. The relationship of students to the campus and the California State University is one governed by statute, rules, and policy adopted by the Legislature, the Trustees, the Chancellor, the Presidents and their duly authorized designees.

Academic Honesty

Vice President for Student Affairs
(916) 278-6060

Honesty is essential to the integrity of any institution of higher education. Accordingly, Sacramento State expects all faculty, staff, and students to protect the integrity of the curriculum and fair grading. Sacramento State is a publicly-assisted institution legislatively empowered to certify competence and accomplishment in general and discrete categories of knowledge. Because academic dishonesty defrauds all those who depend upon the integrity of the University, Sacramento State must diligently defend the integrity of all academic programs.


Grading System

Lower division courses (numbered 1-99), upper division courses (100-199), graduate level courses (200-299 and 500 and above) and some postbaccalaureate Education courses (300-499) are graded:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
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<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
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<tr>
<td>C-</td>
<td>2.0</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Certain designated courses, e.g., co-curricular courses, fieldwork, field tours, workshops, theses, supervised teaching and similar courses are graded Credit (“CR”) or No Credit (“NC”). The Credit (“CR”) grade will equate to “A”, “B” or “C” level competence for undergraduate courses and “A” or “B” level competence for graduate courses. The University uses a plus/minus grading system for letter grades. The grade of “C-” equates to a Credit for undergraduate courses and the “B-” equates to a Credit for graduate courses.

A student’s academic standing is determined by grade point average (GPA). Grade point average is computed by dividing quality points (the total number of grade points earned) by the number of quality hours (total attempted hours excluding courses graded “CR” or “NC”). A grade point average of 2.0 indicates a “C” average, a 3.0 indicates a “B” average, etc. The University does not award a grade of “A+”.

Definition of Grade Symbols

A Exemplary achievement of the course objectives. In addition to being clearly and significantly above the requirements, work exhibited is of an independent, creative, contributory nature.

B Superior achievement of the course objectives. The performance is clearly and significantly above the satisfactory fulfillment of course requirements.

C Satisfactory achievement of the course objectives. The student is now prepared for advanced work or study. Note: The letter grade “C” does not imply satisfactory achievement at the graduate level.

D Unsatisfactory achievement of course objectives, yet achievement of a sufficient proportion of the objectives so that it is not necessary to repeat the course unless required to do so by the academic department.

F Unsatisfactory achievement of course objectives to an extent that the student must repeat the course to receive credit.
**WU**  
Withdrawal Unauthorized indicates that an enrolled student did not withdraw from the course and also failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities, or both, were insufficient to make normal evaluation of academic performance possible. For purposes of grade point average, this symbol is equivalent to an “F”. (See Deletion Policy)

**CR**  
Satisfactory achievement of course objectives. (Not used in Sacramento State grade point calculation.)

**NC**  
Unsatisfactory achievement of course objectives. (Not used in Sacramento State grade point calculation, but is calculated as “F” by many graduate and professional schools.)

**I**  
Incomplete Authorized. A portion of the requirements usually completed during one term remains to be completed and evaluated. (Not used in grade point calculation.) See Incomplete Grade policy, which follows.

**RP**  
Report in progress. Work is in progress on thesis, project or similar course extending beyond one term. (Not used in grade point calculation.) See “RP” Grade Policy, which follows.

**W**  
The symbol "W" indicates that the student was permitted to withdraw from the course after the _____ (day/week) of instruction with the approval of the instructor and appropriate campus officials. It carries no connotation of quality of student performance and is not used in calculating grade point average or progress points. In addition to this statement, the campus catalog shall include a description of the procedures to be followed in withdrawing from a class or from the campus. Such procedures shall be consistent with all applicable provisions of this executive order.

**RD**  
Report Delayed because a grade has not been reported to the registrar due to circumstances beyond control of student. (Not used in grade point calculation.)

**AU**  
Audit symbol indicates student’s status as auditor and does not earn degree credit. (See Admission of Auditors.)

### Audit Grade Symbol

Enrollment as an auditor is subject to permission of the instructor provided that enrollment in a course as an auditor shall be permitted only after students otherwise eligible to enroll on a credit basis have had an opportunity to do so. Auditors are subject to the same fee structure as credit students and regular class attendance is expected. Once enrolled as an auditor, a student may not change to credit status unless such a change is requested no later than the last day to add classes in that term. A student who is enrolled for credit may not change to audit after the fourth week of instruction.

An auditor is a student who enrolls in a course for informational purposes only. Regular attendance is customary and expected, but an auditor does not participate in the class, does not take examinations, and does not receive academic credit for the course. Auditors are not permitted to enroll in activity, curricular, or participatory courses.

### Incomplete Grades

The symbol “I” (Incomplete Authorized) indicates that a portion of required coursework has not been completed and evaluated during the course due to unforeseen but fully justified reasons and that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements that must be satisfied to remove the Incomplete. A final grade is assigned when the work agreed upon has been completed and evaluated. An “I” (Incomplete Authorized) should not be assigned when it is necessary for the student to attend additional class meetings to complete the course requirements. When assigning an “I” grade faculty will complete an online contract visible to student indicating assignments needing to be completed to meet the terms of the contract. An Incomplete must be made up within the time limit specified by the instructor when the completed “I” grade is assigned. The time limit may not extend beyond 12 months. If the instructor does not specify a time limit, then the student must meet the conditions specified by the instructor within 12 months from the day grades are due on the Academic Calendar (the last day of the term) the same term in which the “I” grade was assigned. This limitation prevails whether or not the student maintains continuous enrollment.

Failure to complete the assigned work will result in an Incomplete being converted to an “F” or “NC” on the academic transcript.

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1 Students in the military reserve whose units go on active duty during or around the final examinations period are eligible to receive an "I" provided they meet the conditions above.

### Graduating Seniors

If a graduating senior has an incomplete "I" grade in a course in which

1. the student has not completed the course requirements, and
2. the time limit has not yet expired on the student’s graduation date, and the course is not required for the degree,

then the "I" grade remains on the official transcript as "I/Not Completed".
Undergraduate Students

Sacramento State credit hours/units subject to the following conditions:

Credit/No Credit ("CR"/"NC") grading for a maximum of 15 letter-graded basis ("A"-"F"). Sacramento State students may choose to substitute courses, academic achievement is evaluated on a letter grade courses, fieldwork, field tours, workshops, theses, supervised teaching, supervised teaching, theses, supervised teaching, supervised teaching, supervised teaching, supervised teaching.

With the exception of certain designated courses, e.g., co-curricular courses, any course which is graded "CR"/"NC" cannot be used to satisfy course requirements in the major, the minor, or general education unless the course is identified in the catalog as graded "CR"/"NC". This applies to all University graduation requirements.

C- Grades for Prerequisite Courses

A grade of "C-" or better is required for prerequisite courses. If a department requires a "C" or better in a prerequisite course and will not accept a "C-" grade, then the department must specify so in the catalog course description. This policy applies to all undergraduate-level courses.

Credit/No Credit Grading Option

With the exception of certain designated courses, e.g., co-curricular courses, fieldwork, field tours, workshops, theses, supervised teaching, and similar courses, academic achievement is evaluated on a letter grade basis ("A"-"F"). Sacramento State students may choose to substitute Credit/No Credit ("CR"/"NC") grading for a maximum of 15 letter-graded Sacramento State credit hours/units subject to the following conditions:

Undergraduate Students

1. No more than 15 units taken under the Sacramento State "CR"/"NC" option may apply toward a baccalaureate degree (this does not include credits obtained from challenge or Advanced Placement examinations).
2. Any course which is graded "CR"/"NC" cannot be used to satisfy requirements in the major, the minor, or general education unless the course is identified in the catalog as graded "CR"/"NC". This applies to all University graduation requirements.
3. Students must submit the appropriate form requesting "CR"/"NC" grading to Office of the University Registrar before the census date of the semester.
4. The instructor will assign a letter grade on the grade roll. If the grade earned by the student who elected the "CR"/"NC" option is "C-" or higher, "CR" will be posted to the student's transcript. If the assigned grade is lower than "C-", "NC" will be posted.

Graduate Students

1. Classified or conditionally classified graduate students, with the consent of their advisor and department, may elect "CR"/"NC" grading in courses normally letter graded. Units earned in this manner may not count toward graduate degree requirements.
2. Unclassified graduate students and postbaccalaureate credential students also may elect "CR"/"NC" grading in courses normally letter graded. Units earned in this manner may not be used to meet course requirements for admission to classified status or be applied to meeting second bachelor's, certificate or credential requirements (unless department policy specifies otherwise).
3. Graduate students must submit the appropriate form requesting "CR"/"NC" grading, including approved signatures if required, to the Registrar's Office before the census date of the semester.
4. The instructor will assign a letter grade on the grade roster. If the grade earned by the student who elected the "CR"/"NC" option is "B-" or higher, "CR" will be posted to the student's transcript. If the assigned grade is lower than "B-", it will be posted as "NC".

Co-Curricular Courses

Co-curricular courses are designed to enhance student development, enrich the student's educational experience and/or facilitate involvement in University life. Co-curricular courses are graded "CR"/"NC". No more than 15 units of co-curricular coursework may be applied toward a baccalaureate degree.

Co-curricular courses include the following categories of courses (fieldwork and internships required in a major or minor program are not subsumed in this category):

1. elective courses that provide students opportunities to practice in a field related to their major, e.g., cooperative education, field tours, workshops, tutoring, fieldwork and internships;
2. courses that allow students to apply an individual talent or skill as a participant in intercollegiate competition or other extracurricular activities and events organized by the University;
3. orientation courses, e.g., introduction to college studies, academic strategies and study skills, career orientation; and
4. courses that promote student involvement in University governance and service, e.g., participation in student government, peer advising, residence hall advisor training.

Grade Corrections, Deletions, and Appeals

Grade Correction Policy

A grade correction is possible only in the case of a declared administrative error. A correction in letter grade must be approved by the instructor of record and the department chairperson by the last day of the semester, either spring or fall, after the grade is posted to the student's record. The definition of administrative error is an error made by the instructor or assistant in grade determination or posting.

A grade Change may not be made as a result of work completed or presented following the close of a grade period, except for completion of work when an Incomplete grade was issued. Grades cannot be changed to "W" nor can they be changed from a letter grade to Credit/No Credit.

A grade correction after the semester following grade award will be allowed only if the course instructor and chair of the department where the course was offered submit the grade change and an explanation for the late grade correction to the Registrar. In the case where the course instructor and/or department chair is unavailable, the department faculty or a committee of department faculty must approve the grade correction. In such a case, a statement of the nature of the exception, the department's method of approval, and the date of approval, must be forwarded with the grade correction.

Deletion Policy

A petition to delete grades may be submitted for consideration by the Academic Standards Committee for the following reasons only:

1. to remove penalty grades assigned due to failure to complete a course for causes related to illness. Medical verification is required;
2. to correct errors by academic departments. Department verification is required;
3. to correct errors made in registration (e.g., use of wrong class code). The Registrar's Office must confirm this error.

Petitions to delete grades must be submitted within one academic year from the end of the semester in which the grade was received. After a
Grade Appeal Procedures

The campus has a single grade appeal procedure available to students in all academic disciplines. Copies of the procedure are available in each academic department office, in the Office of the Provost and Vice President for Academic Affairs and the Office of the Vice President for Student Affairs. Information in its entirety about the grade appeal process can be accessed on the Sacramento State Web site at Microsoft Word - SP 08-09 Grade forgiveness policy.doc.docm (csuci.edu) (https://policy.csuci.edu/sp/b/sp-08-09.pdf#:~:text=Background%3AEducational%20Order%20No%201037%20limits%20the%20number%20of,repeat%20a%20course%20with%20a%20f%20%20t%20twice)

Unauthorized Withdrawal Policy - WU (Withdrawal Unauthorized)

The University requires that students process an official drop or withdrawal online or by petition within published deadlines. Failure to withdraw properly from a course may result in assignment of a "WU", "F", or "NC" grade in the course.

The "WU" may be assigned in the case where the student has not completed sufficient course assignments or participated in sufficient course activity to make it possible, in the opinion of the instructor, to report satisfactory or unsatisfactory completion of the class by use of a letter grade (A - F).

For purposes of grade point average, a "WU" grade is equivalent to an "F". However, in courses which are graded Credit/No Credit, the use of the "NC" grade should be assigned and not the "WU" grade.

Petition to Discount First WU Grade. In the first term that a student receives one or more "WU" grades, the student may petition to have the "WU" grades dropped from their GPA calculation. To do so the student must obtain a "Petition to Discount First WU Grade" from the University Registrar's Office or the Academic Advising Center.

The student may submit a petition at any time prior to conferral of degree. While the petition will result in the "WU" grades being excluded from the GPA calculation, the "WU" grade remains on the student's transcript. The "Petition to Discount First WU Grade" only applies to the first term in which the student receives one or more "WU" grades. This "Discount" policy does not apply to "WU" grades earned in subsequent terms or "WU" grades received at institutions other than Sacramento State.

A student re-enrolling in a course in which the student previously received a discounted first WU grade, will not be considered to be officially repeating the course. These units will not be considered "repeat units" as specified in the University's Repeat Policy.

Unauthorized Withdrawal Policy - WU (Withdrawal Unauthorized)

Student Complaint Hearing Policy

Vice President for Student Affairs
(916) 278-6060

The Student Complaint Hearing Policy addresses grievances that result from alleged inequitable treatment by a University employee, enforcement of an unfair policy, or failure to adhere to a University policy that does not fall into the categories of grades, student discipline, or harassment/discrimination issues. This policy reflects the University's desire to resolve disputes within each program center at an informal level. If such a resolution is not possible, this complaint procedure provides a fair and collegial hearing process.

For a copy of the policy, contact the offices of the Vice President for Student Affairs, any Program Center administrators or refer to the governing shelf at the University Library.

Student Complaint Procedure (Complaints Regarding the CSU)

The California State University takes complaints and concerns regarding the institution very seriously. If you have a complaint regarding the CSU, you may present your complaint as follows:

1. If your complaint concerns CSU's compliance with academic program quality and accrediting standards, you may present your complaint on the Western Association of Schools and Colleges (WASC) (http://www.wasc.org) website. WASC is the agency that accredits the CSU's academic program. If you believe that your complaint warrants further attention after you have exhausted all the steps outlined by WASC, you may file an appeal with the Assistant Vice Chancellor, Academic and Student Affairs at the CSU Chancellor's Office.

2. If your complaint concerns an alleged violation by CSU of any law that prohibits discrimination, harassment or retaliation based on a protected status (such as age, disability, gender (or sex), gender identity, gender expression, nationality, race or ethnicity (including color or ancestry), religion or veteran or military status), you may present your complaint as described in Section XVI (Nondiscrimination Policy).

3. If your complaint concerns an alleged violation by CSU of other state law, including laws prohibiting fraud and false advertising, you may present your complaint to the university president or designee at luke.wood@csus.edu (http://catalog.csus.edu/academic-policies/luke.wood@csus.edu). See Procedure for Student Complaints –Executive Order No. 1063 for details regarding the complaint requirements and complaint process. The president or designee will provide guidance on the appropriate campus process for addressing your particular issue.

4. Other complaints regarding the CSU may be presented to the university dean of students, who will provide guidance on the appropriate university process for addressing your particular issue.

If you believe that your complaint warrants further attention after you have exhausted all the steps outlined by the university, or by WASC, you may file an appeal with the Assistant Vice Chancellor, Academic and Student Affairs (or designee) at the CSU Chancellor's Office.

This procedure should not be construed to limit any right that you may have to take action to resolve your complaint.

Repeating Courses

The policy governing course repeats at California State University, Sacramento follows Executive Order 1037 - Grading Symbols, Minimum Standards Governing the Assignment of Grades, Policies on the Repetition of Courses, Policies on Academic Renewal, and Grade Appeals. 1

1. Undergraduate students may repeat courses only if they earned grades lower than a C (C+, D+, D-, D, F, WU, NC).

2. Course repeats with "Grade Forgiveness" (Grade Forgiveness is the circumstances in which the new grade replaces the former grade in terms of the calculation of GPA, etc.):
a. Undergraduate students may repeat up to 16 semester-units with grade forgiveness.  

b. Undergraduate students may repeat an individual course for grade forgiveness no more than one time. A course may be repeated no more than two times without petition.

c. Grade forgiveness shall not be applicable to course for which the original grade was the result of a finding of academic dishonesty.

3. Course Repeats with “Grades Averaged”: Undergraduate students may repeat an additional 12 semester-units, i.e., units in addition to the 16 semester-units for which grade “replacement” is permitted. In such instances the repeat grades shall not re-place the original grade; instead all grades (except any forgiveness grades) shall be calculated into the student’s overall grade-point average.  

4. Departments and Colleges may not have a repeat policy that differs from the campus policy. (Note: restrictions on repeats for enrolled and declared majors, pre-majors, minors, and certification students within specific programs, represent substantive program changes and not exceptions to the repeat policy.)

5. The limits apply only to units completed at the campus (i.e., While courses taken elsewhere may be repeated here or used to replace grades previously earned here (if the original grade was below a C), only the courses taken here will be counted towards the repeat caps).

The existing repeat policy above will apply to transfer credit unless otherwise noted (see Number 5 above). Undergraduate students may repeat courses at California State University, Sacramento OR another college or university only if they earned grades lower than a C (C-, D+, D, D-, F, WU, NC). This policy applies to students who are repeating a course first taken at California State University, Sacramento and repeated at other college or university. This policy also applies to students who are repeating a course first taken at another college or university and repeated at California State University, Sacramento.

If a student has repeated a course in which that student has earned a grade of C or higher, neither the course credit nor grade will be recognized as a valid repeat and will not be forgiven or averaged. In these instances, the original grade will remain on the student’s record.

**Addendum - Transfer Credit**

The University recognizes superior academic achievement at the time of admission, at the end of each semester and at the time of graduation. In addition, academic standards have been set for continuation of enrollment privileges based on minimum achievement required for completion of degree requirements.

**Scholastic Standards**

When all the policy conditions are met, Sacramento State may disregard previous unsatisfactory academic coursework, taken at any college, from all considerations associated with requirements for the baccalaureate degree. The request is limited to two semesters or three quarters of coursework. The policy action removes the earned hours, quality hours, and quality points (grade points) for the entire semester(s) or quarter(s) under consideration. The Academic Renewal policy does not allow for partial deletion of coursework within any semester or quarter. (See Grade Deletion Policy.) Sacramento State does not consider requests to delete any course completed and applied toward a baccalaureate degree after the degree has been awarded.

**Requirements and Procedure**

1. Using the Academic Renewal Petition, the student must present evidence that:

a. the level of performance was due to extenuating circumstances;

b. one or more additional terms of enrollment would be required to complete baccalaureate requirements if the request was not approved, i.e., all degree requirements would be met except the required minimum Sacramento State and overall GPA (2.000);

c. five years have elapsed since the most recent coursework to be disregarded was completed (e.g., Fall 2001 semester will be considered after the Fall 2006 semester);

d. the student has completed additional academic coursework at Sacramento State subsequent to the work to be disregarded;

e. the additional academic coursework completed conforms with the following sliding scale: 15 semester units with at least a 3.0 GPA, 30 semester units with at least a 2.500 GPA, or 45 semester units with at least a 2.000 GPA (work completed at another college/university cannot be used to satisfy this requirement); and

f. the petitioner is currently attending Sacramento State, has filed to graduate from Sacramento State and has met with a degree evaluator from the Evaluations Office to determine if additional coursework is needed.

2. If another accredited college has acted to remove previous work from degree consideration, such action will be honored in terms of its policy. However, elimination of any work in a term by any other institution will reduce by one term the two-semester maximum that may be disregarded by Sacramento State.

3. When such action is taken, the student’s permanent academic record will be annotated so that it is readily evident that no work taken during the disregarded term(s), even if satisfactory, may apply toward baccalaureate requirements. However, all work must remain legible on the record ensuring a true and complete academic history.

4. Final determination that one or more terms will be disregarded will be based on careful review of evidence by a committee, which will include the Provost and Vice President for Academic Affairs, the College Dean of the major, the University Registrar, the Associate Registrar for Graduation and Evaluation, and the Vice President for Student Affairs.
Recognition of Academic Achievement

Honors List
Semester honors are awarded and the notation "Dean's Honor List" is posted to the permanent academic record for freshmen earning a 3.000 grade point average and other undergraduates earning a 3.250 grade point average. To be eligible in either category, students must complete a minimum of 12 letter-graded units with no Incomplete grades and no grade lower than "C-".

Graduation with Honors
Honors at Graduation are awarded to Sacramento State bachelor's degree graduates who complete a minimum of 30 graded units in residence with a qualifying grade point average.

Honors are awarded based on the following grade point average ranges:

<table>
<thead>
<tr>
<th>Honors</th>
<th>GPA Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cum Laude</td>
<td>3.50-3.749</td>
</tr>
<tr>
<td>Magna Cum Laude</td>
<td>3.75-3.899</td>
</tr>
<tr>
<td>Summa Cum Laude</td>
<td>3.90-4.000</td>
</tr>
</tbody>
</table>

For posting of honors on the transcript, the GPA calculation will include all Sacramento State coursework, including the final semester. Second bachelor's degree graduates are not eligible for Honors at Graduation.

Academic Honors Societies

University Level
- Golden Key
- Phi Beta Delta
- Phi Kappa Phi
- Sigma Xi

College Level
Arts and Letters
- Delta Phi Alpha (Foreign Languages – German)
- Lambda Pi Eta (Communication Studies)
- Phi Alpha Theta (History)
- Pi Kappa Lambda (Music)
- Sigma Delta Pi (Foreign Languages – Spanish)
- Sigma Tau Delta (English)

Business
- Beta Alpha Psi (Accountancy)
- Beta Gamma Sigma (Business – General)

Education
- Chi Sigma Iota (Counselor Education)
- Phi Delta Kappa (Education – General)

Engineering and Computer Science
- American Society of Civil Engineers (Civil Engineers)
- American Society of Mechanical Engineers (Mechanical Engineers)
- Association for Computing Machinery
- Chicano Latino Association of Computer Scientists and Engineers
- Competitive Robotics
- Construction Management Student Association (Construction Management)
- ECS Joint Council of Student Organizations
- Institute of Electrical and Electronics Engineers (Electrical and Electronics Engineers)
- National Society of Black Engineers
- Society of Automotive Engineers
- Society of Women Engineers
- Tau Beta Pi (Engineers – General)
- Upsilon Pi Epsilon (Computer Science)

Health & Human Services
- Alpha Phi Sigma (Criminal Justice)
- Sigma Theta Tau (Nursing)
- Phi Alpha (Social Work)

Natural Sciences & Mathematics
- Biological Sciences Honors Programs (Biological Sciences)
- Gamma Theta Upsilon (Geography)
- Pi Mu Epsilon (Mathematics)
- Sigma Pi Sigma (Physics)

Social Sciences and Interdisciplinary Studies
- Alpha Kappa Delta (Sociology)
- Lambda Alpha (Anthropology)
- Omicron Delta Epsilon (Economics)
- Pi Sigma Alpha (Government)
- Psi Chi (Psychology)

Scholastic Standards for Continuation of Enrollment
Undergraduate Students

The grade point average in all courses attempted at Sacramento State plus the overall GPA in courses attempted at all accredited colleges are used in determining whether a student is demonstrating satisfactory progress toward degree completion. Students must maintain a 2.000 ("C") average each semester, at Sacramento State, and overall. Failure to do so will subject the student to the loss of enrollment privileges as indicated in the following rules.

To be eligible for a bachelor's degree, a student must earn a grade point average of 2.000 in the overall college record, in the cumulative Sacramento State record, in all upper division courses used to complete the major, in all courses used to complete the minor, and in all courses used to complete General Education.
Undergraduate Academic Action Categories

Good Standing
Undergraduate students whose Sacramento State and cumulative grade point average (GPA) is 2.0 or above are considered in good academic standing.

Academic Probation
Students whose cumulative Sacramento State grade point average or overall grade point average falls below 2.00 will be placed on academic probation. Students on probation are eligible to enroll in the subsequent semester.

Continued Probation
Students on probation will be placed on Continued Probation if they:

• earn a 2.000 in the current semester, but have a Sacramento State GPA or overall GPA below 2.000.

Students placed on Continued Probation will be limited to a maximum course load of 14 units per semester until they return to academic good standing.

Academic Disqualification
If a student is on academic probation and the Sacramento State or cumulative grade point average is below the following levels, the student will be academically disqualified if their Sacramento State or cumulative GPA is below a:

• Freshman (30 units) will be academically disqualified if their Sacramento State GPA is below a 1.50;
• Sophomores (30-59.9 units) will be academically disqualified if their Sacramento State GPA is below 1.70;
• Juniors (60-89.9 units) will be academically disqualified if their Sacramento State GPA is below a 1.85;
• Seniors (90 or more units) will be academically disqualified if their Sacramento State GPA is below a 1.95.

Students not on probation will be disqualified if the cumulative GPA is 1.00 or less. Disqualified students will not be allowed to register unless they are formally reinstated and/or readmitted to the University.

Academic Dismissal
A student reinstated after disqualification who earns a semester GPA below 2.000 or fails to meet other requirements specified in the reinstatement contract will be dismissed. Academic Dismissal means that enrollment privileges have been withdrawn. Dismissed students are not eligible to use the immediate reinstatement procedure. Academically dismissed students are not eligible for readmission without at least one semester of absence from Sacramento State. Students who have been dismissed twice must sit out two years before petitioning to return.

Administrative Probation and Administrative Disqualification
Undergraduate students are subject to Administrative Probation for the following reasons:

1. Withdrawal from all or a substantial portion of their courses in two successive terms or in any three terms.
2. Repeated failure to progress toward a degree or other program objective, when such failure is due to circumstances within the control of the student.

3. Failure to comply, after due notice, with an academic requirement or regulation.

Students who do not meet the conditions for removal of administrative probation may be subject to further administrative actions, including Administrative Disqualification.

Notification
Student Service Center
Office of the University Registrar
Lassen Hall 1000
(916) 278-1000

Students will be notified of their academic status (academic probation, continued probation, academic disqualification or academic dismissal) by letter, and/or My Sacramento State message and/or email at the end of each semester. Students on Probation or Continued Probation are required to meet with an advisor in their major department. Departments may block registration of students who fail to meet advising appointments. Students receiving veterans’ educational benefits may be ruled ineligible for continued benefits if, after one semester of unsatisfactory achievement (probation or disqualification), they do not return to academic Good Standing at the completion of the next semester.

Reinstatement of Disqualified Students
Students who have been academically disqualified may petition for reinstatement. The Petition for Reinstatement may be obtained from the reinstatement website (https://www.csus.edu/student-affairs/centers-programs/student-services-center/reinstatement.html). Reinstatement petitions are reviewed by a committee of faculty and professional advisors, who make recommendations for a student’s future academic standing. If reinstated, students will be placed on an academic contract that may stipulate maximum units, specific courses, and achievement levels. Failure to meet the conditions of the reinstatement contract and/or failure to achieve a subsequent semester GPA of 2.000 or higher will result in academic dismissal.

Students not recommended by their academic department for continuation in the first choice major may be considered for University reinstatement into a different major when approved by the department offering that major. Students reinstated as undeclared will not be allowed to enroll in upper division major courses during the period of the contract without the permission of the department chair or designee for that major.

Deadlines to petition for immediate reinstatement are as follows:
Spring Semester: Third week of January
Fall Semester: End of June

Note: Deadlines are strictly enforced.

Students whose petitions are approved are subject to review each semester until the Sacramento State GPA and overall cumulative GPA reach the minimum standard of 2.00 for academic Good Standing.

Readmission of Academically Dismissed Students
Students who are academically dismissed will not be considered for continued enrollment at the University for at least one semester depending on semester of dismissal. Academically dismissed students need to meet with an advisor for advice on developing a plan to remedy the conditions that led to dismissal.
After the mandatory interruption in enrollment, students who were academically dismissed must submit a petition for “Readmission after Dismissal” which is available on the Reinstatement website (https://www.csus.edu/student-affairs/centers-programs/student-services-center/reinstatement.html). Petitions for Readmission after Dismissal are available during the month of August in order to be reviewed for possible Spring term admission. The appeal must include a recommendation from the student’s major department. A student whose appeal is granted is subject to academic review each semester until the Sacramento State GPA and overall grade point average reach the minimum standard of 2.00 for academic Good Standing. Readmitted students who fail to meet conditions specified for readmission will be academically dismissed. A second dismissal will result in a mandatory interruption of at least two years.

Note: Deadlines are strictly enforced.

Reinstatement Procedure for College of Business Undergraduate Students

Business students who have been disqualified or dismissed from the University for academic reasons are no longer considered business students. This means that disqualified or dismissed students will not be allowed to enroll in 100-level business courses until they have been reinstated into the business major.

Undergraduate students who did not enroll in the University the semester(s) immediately following their disqualification must obtain a Petition for Reinstatement or Petition for Readmission Following Dismissal from the Academic Advising and Career Center or the Student Services Counter, Lassen Hall. If enrolled in the University for non-business classes the semester(s) immediately following disqualification, the student must obtain a Change of Major - Reinstatement Petition from the Undergraduate Business Advising Center (UBAC), indicating the request for reinstatement into the major. All petitions, along with supporting documentation of explanation and a complete set of transcripts of all college-level courses taken, must be submitted to the UBAC, Tahoe Hall 1030, no later than the first Friday of any given month. Petitions are evaluated each month and recommendations are made for the subsequent semester.

All students must check with the Academic Advising and Career Center to assure they comply with the University’s reinstatement policy and procedures.

Official Transcripts

Student Service Center
Office of University Registrar
Lassen Hall 1000
(916) 278-1000

Sacramento State issues official transcripts only. There is a charge per transcript. Transcripts may be ordered in person, by mail (student’s signature required), or online (for an additional fee). Orders are not accepted by telephone, fax, or email. When ordering transcripts in person, please be sure to bring a government issued photo ID. Transcript requests will be returned if you owe any financial or administrative obligation to the University. Please refer to the Office of the University Registrar’s Web site at: https://www.csus.edu/student-life/records-transcripts/transcripts/.

Information to Include with a Request

Full name and any other names you may have attended under; student identification number, if known; complete social security number; date of birth; dates of attendance/graduation from Sacramento State. Please print legibly the address(es) where you would like the transcript(s) mailed. Provide any special instructions such as "Hold for current semester grades" or "Hold for the degree posting" or "Hold for grade change". If someone other than yourself will be picking up the transcript, you need to provide a signed release authorizing the third party to pick up your transcript. And, your signature is required on each transcript request.

To avoid delays in processing, include your full name, student identification number, date of birth, and previously used names. Submit the correct fee payment with written requests and specify any special handling instructions. Currently enrolled students may obtain unofficial transcripts from My Sacramento State. For current information on how to order transcripts and fees, please refer to the Office of the University Registrar’s Web site.

Schedule of Final Examinations

Final examinations, including major section exams offered in lieu of a final exam, may not be scheduled during the last week of classes. However, quizzes, lab exams, and other academic assignments may be scheduled for the last week of classes provided they are specified on the course syllabus. No unscheduled (i.e., not included in the course syllabus) or additional requirements may be imposed on students during the last week of classes. Any exceptions that necessitate giving a final prior to final exam week must be stated on the course syllabus and require prior approval of the Dean.

Credit Hour

On July 1, 2020, the United States Department of Education changed its definition of the student credit hour. Fundamentally, the change shifted responsibility for credit hour compliance to the accreditation agency and/or to the state.

As such, the CSU’s accreditor, the WASC Senior College and University Commission (WSCUC), has published its own updated definition of student credit hour and related accreditation processes. The new regulations no longer require an accrediting agency to review an institution’s credit hour policy and procedures. It does require the WSCUC to review the institution’s definition of credit hour and an institutions’ processes and policies for ensuring the credit hour policy is followed.

The CSU credit hour definition is consistent with federal law (600.2 and 600.4 revised July 1, 2020) and the requirements of the WSCUC. The CSU defines a credit hour as an amount of work represented in stated learning outcomes and verified by evidence of student achievement. Such evidence is an institutionally established equivalency that:

1. Approximates not less than:
   a. One hour of direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately 15 weeks for one semester or equivalent amount of work over a different amount of time; or
   b. At least an equivalent amount of work as required in paragraph 1.a. of this definition for other academic activities as established by the institution including laboratory work, internships, practice,
studio work and other academic work leading to the award of credit hours; and

2. Permits an institution, in determining the amount of work associated with a credit hour, to take into account a variety of delivery methods, measurements of student work, academic calendars, disciplines and degree levels. Institutions have the flexibility to award a greater number of credits for courses that require more student work.

As in the past, a credit hour is assumed to be a 50-minute (not 60-minute) period. In some courses, such as those offered online, in which "seat time" does not apply, a credit hour may be measured by an equivalent amount of work, as demonstrated by student achievement.

For purposes of accreditation, all CSUs are required to develop, communicate and implement procedures for regular, periodic review of this credit hour policy to ensure that credit hour assignments are accurate, reliable and consistently applied. WSCUC published new draft guidelines that took effect in June 2021. Universities are responsible for publishing a clearly stated practice or process that ensures they are in compliance with the student credit hour definition.

Credit by Examination

Students may challenge courses by taking examinations developed at Sacramento State. Credit shall be awarded to those who pass them successfully.

Systemwide Credit by Examination

Sacramento State grants credit to those students who pass examinations that have been approved for credit systemwide. These include the Advanced Placement (AP) Examination, the CSU English Equivalency Examination, and some College-Level Examination Program (CLEP) examinations. The following examinations (chart below) are accepted for the amount of credit indicated, subject to the achievement scores noted.

<table>
<thead>
<tr>
<th>Examination</th>
<th>Passing Score</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>College-Level Examination Program (CLEP)</td>
<td>50 - 63</td>
<td>Semester hours vary according to exam</td>
</tr>
<tr>
<td>International Baccalaureate Examination (IB)</td>
<td>4 - 7 higher level</td>
<td>Semester hours vary according to exam</td>
</tr>
<tr>
<td>CEEB Advanced Placement Program Examinations (AP)</td>
<td>3, 4, 5</td>
<td>Up to 6 semester hours (As recommended by the College Board)</td>
</tr>
<tr>
<td>American Chemical Society Cooperative Examination</td>
<td>50th percentile or above</td>
<td>3 semester hours</td>
</tr>
<tr>
<td>CSU English Equivalency Examination</td>
<td>Established annually by faculty scoring the examination</td>
<td>6 semester hours</td>
</tr>
</tbody>
</table>

Note: A minimum score of 5 is required on some Higher Level IB exams in order to receive credit. Please see the International Baccalaureate Examination section below for specific information regarding exams.

<table>
<thead>
<tr>
<th>Examination</th>
<th>Passing Score</th>
<th>Credit</th>
<th>GE Area</th>
<th>GE Units</th>
<th>Elective Units</th>
<th>Course Equivalencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Government</td>
<td></td>
<td></td>
<td>D- Government</td>
<td>3</td>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>American Literature</td>
<td></td>
<td></td>
<td>C-Humanities</td>
<td>3</td>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>Analysing and Interpreting Literature</td>
<td></td>
<td></td>
<td>C-Humanities</td>
<td>3</td>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>Biology</td>
<td>B2</td>
<td>3</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus</td>
<td>B4</td>
<td>3</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>B1</td>
<td>3</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Algebra</td>
<td>B4</td>
<td>3</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Algebra-Trigonometry</td>
<td>B4</td>
<td>3</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Mathematics</td>
<td>None</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Composition</td>
<td>None</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Composition-Modular</td>
<td>None</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition (no essay)</td>
<td>None</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition with Essay</td>
<td>None</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Literature</td>
<td>C-Humanities</td>
<td>3</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Financial Accounting</td>
<td>None</td>
<td>0</td>
<td>3</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>French Level I</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>French Level II</td>
<td>C-Humanities</td>
<td>3</td>
<td>6</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshman College Composition</td>
<td>None</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>German Level I</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>German Level II</td>
<td>C-Humanities</td>
<td>3</td>
<td>6</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History, US I</td>
<td>D-History +US1</td>
<td>3</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History US II</td>
<td>D-History +US1</td>
<td>3</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human Growth and Development</td>
<td>E</td>
<td>3</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>C-Humanities</td>
<td>3</td>
<td>0</td>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
A score of 50 is required for all exams except for Languages other than English Level II:

<table>
<thead>
<tr>
<th>AP Exam</th>
<th>GE Area</th>
<th>GE Units</th>
<th>Elective Units</th>
<th>Course Equivalencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>C-Arts or C-Humanities</td>
<td>3</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Art Studio and Drawing</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>None</td>
</tr>
<tr>
<td>Art Studio-2D Design</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>None</td>
</tr>
<tr>
<td>Art Studio-3D Design</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>None</td>
</tr>
<tr>
<td>Biology: Score B2 &amp; B3 of 3</td>
<td>None</td>
<td>4</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td>Biology: Score B2, B3 &amp; B5 of 4 or 5</td>
<td>None</td>
<td>6</td>
<td>0</td>
<td>BIO 10</td>
</tr>
<tr>
<td>Calculus AB: Score of 3</td>
<td>None</td>
<td>4</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td>Calculus AB: Score of 4 or 5</td>
<td>None</td>
<td>4</td>
<td>2</td>
<td>MATH 30</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>None</td>
<td>6</td>
<td>0</td>
<td>MATH 30 &amp; 31</td>
</tr>
<tr>
<td>Chemistry</td>
<td>B1 &amp; B3</td>
<td>4</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td>Chinese Language &amp; Culture</td>
<td>C-Humanities</td>
<td>3</td>
<td>3</td>
<td>Foreign Language Requirement</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>CSC 15</td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>CSC 15 &amp; CSC 20</td>
</tr>
<tr>
<td>Computer Science Principles</td>
<td>B4 (May 2018 exam or later)</td>
<td>3</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Economics – Macroeconomics</td>
<td>D-Economics</td>
<td>3</td>
<td>3</td>
<td>ECON 1A</td>
</tr>
<tr>
<td>Economics – Microeconomics</td>
<td>D-Economics</td>
<td>3</td>
<td>3</td>
<td>ECON 1B</td>
</tr>
<tr>
<td>English Language</td>
<td>A2</td>
<td>3</td>
<td>3</td>
<td>ENGL 5</td>
</tr>
<tr>
<td>English Literature</td>
<td>A2 &amp; C-Humanities</td>
<td>6</td>
<td>0</td>
<td>ENGL 5</td>
</tr>
<tr>
<td>Environmental B1 &amp; B3 Science</td>
<td>None</td>
<td>4</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td>French Language &amp; Culture: Score of 3</td>
<td>C-Humanities</td>
<td>4</td>
<td>2</td>
<td>FREN 2A &amp; Foreign Language reqmt.</td>
</tr>
<tr>
<td>French Language &amp; Culture: Score of 4 or 5</td>
<td>C-Humanities</td>
<td>4</td>
<td>2</td>
<td>FREN 2B &amp; Foreign Language reqmt.</td>
</tr>
</tbody>
</table>

A score of 50 is required for all exams except for Languages other than English Level II:

<table>
<thead>
<tr>
<th>Language</th>
<th>Score Required</th>
<th>GE Units</th>
<th>Elective Units</th>
<th>Course Equivalencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>French Level II</td>
<td>59</td>
<td>None</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>German Level II</td>
<td>60</td>
<td>None</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Spanish Level II</td>
<td>63</td>
<td>None</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

Official Transfer Evaluations

Office of the University Registrar
Lassen Hall 2000
(916) 278-1000

The Office of the University Registrar will prepare an official transfer credit evaluation summarizing prior college credit and indicating Sacramento State General Education requirements met. Students may access their Transfer Credit Evaluation through their MySacState account.

Questions about the evaluation can be discussed with the Student Services Center, Lassen 1000 or by calling the Help Line at (916) 278-1000.
<table>
<thead>
<tr>
<th>Course</th>
<th>Area</th>
<th>Units</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>French Literature</td>
<td>C-Humanities</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Geography – Human</td>
<td>D-Geography</td>
<td>3</td>
<td>GEOG 2</td>
</tr>
<tr>
<td>German Language &amp; Culture: Score of 3</td>
<td>C-Humanities</td>
<td>4</td>
<td>GERM 2A &amp; Foreign Language reqmt.</td>
</tr>
<tr>
<td>German Language &amp; Culture: Score of 4 or 5</td>
<td>C-Humanities</td>
<td>4</td>
<td>GERM 2B &amp; Foreign Language reqmt.</td>
</tr>
<tr>
<td>Government – Comparative</td>
<td>D-Government</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Government - U.S.Gov and Politics</td>
<td>D-Government</td>
<td>3</td>
<td>None - meets US Constitution²</td>
</tr>
<tr>
<td>History – U.S.</td>
<td>D-History +US1</td>
<td>6</td>
<td>HIST 17A &amp; HIST 17B</td>
</tr>
<tr>
<td>History – European</td>
<td>C-Humanities</td>
<td>6</td>
<td>HIST 4 &amp; HIST 5</td>
</tr>
<tr>
<td>History – World (May 2019 exam or later)</td>
<td>C-Humanities</td>
<td>3</td>
<td>HIST 51</td>
</tr>
<tr>
<td>Italian Language &amp; Culture</td>
<td>C-Humanities</td>
<td>3</td>
<td>Foreign Language reqmt.</td>
</tr>
<tr>
<td>Latin: Vergil</td>
<td>C-Humanities</td>
<td>3</td>
<td>Foreign Language reqmt.</td>
</tr>
<tr>
<td>Latin: Literature</td>
<td>C-Humanities</td>
<td>3</td>
<td>Foreign Language reqmt.</td>
</tr>
<tr>
<td>Music: Listening &amp; Literature</td>
<td>C-Arts</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Music: Theory C-Arts</td>
<td>3</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Physics 1</td>
<td>B1 &amp; B3</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>Physics 2</td>
<td>B1 &amp; B3</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>Physics 1 + Physics 2: Score of 3</td>
<td>B1 &amp; B3</td>
<td>4</td>
<td>PHYS 5A &amp; PHYS 5B</td>
</tr>
<tr>
<td>Physics 1 + Physics 2: Score of 4 or 5</td>
<td>B1 &amp; B3</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>Physics C Mechanics: Score of 3</td>
<td>B1 &amp; B3</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>Physics C Mechanics: Score of 4 or 5</td>
<td>B1 &amp; B3</td>
<td>4</td>
<td>PHYS 11A</td>
</tr>
<tr>
<td>Physics C Electricity/ Magnetism: Score of 3</td>
<td>B1 &amp; B3</td>
<td>4</td>
<td>None</td>
</tr>
<tr>
<td>Physics C Electricity/ Magnetism: Score of 4 or 5</td>
<td>B1 &amp; B3</td>
<td>4</td>
<td>PHYS 11C</td>
</tr>
<tr>
<td>Psychology</td>
<td>D-Psychology</td>
<td>3</td>
<td>PSYC 2</td>
</tr>
<tr>
<td>Research</td>
<td>None</td>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>Seminar</td>
<td>None</td>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>Spanish Language &amp; Culture: With score of 3</td>
<td>C-Humanities</td>
<td>4</td>
<td>SPAN 2A &amp; Foreign Language reqmt.</td>
</tr>
<tr>
<td>Spanish Language &amp; Culture: With score of 4</td>
<td>C-Humanities</td>
<td>4</td>
<td>SPAN 2B &amp; Foreign Language reqmt.</td>
</tr>
<tr>
<td>Spanish Language &amp; Culture: With score of 5</td>
<td>C-Humanities</td>
<td>4</td>
<td>SPAN 42, 47 &amp; Foreign Language reqmt.</td>
</tr>
<tr>
<td>Spanish Literature &amp; Culture</td>
<td>C-Humanities</td>
<td>3</td>
<td>Foreign Language reqmt.</td>
</tr>
<tr>
<td>Statistics</td>
<td>B4</td>
<td>3</td>
<td>STAT 1</td>
</tr>
</tbody>
</table>

¹ If student passes more than one AP calculus or computer science, only one examination may be applied to the baccalaureate. A score of 3 or above is required.
² AP exam in Government does not fulfill CA Government requirement.
³ AP exam in US History does not fulfill Race & Ethnicity requirement.
⁴ If a student passes more than one AP Physics exam, only 6 units of credit may be applied to the Baccalaureate degree and only 4 units applied to GE certification.

**Amount and Use of Examination Credit for General Education**

Students who present scores of three or better on the Advanced Placement Examinations may earn up to 6 units of college credit and meet applicable General Education Area Requirements. Advanced
Placement credit is excluded from the credit by examination limit of 30 units.

Students passing the English Equivalency Examination administered after 1972-73 may earn up to 6 units of credit to be applied in general education in lieu of English 1A.

Students taking the CLEP Subject Examination, General Chemistry and who earn a score of 48 or above, earn 3 units of Natural Science credit.

**Campus Credit by Examination**

Students may challenge courses by taking examinations developed at the campus. Results of the examination ("CR" or "NC") will be noted on the student's transcript. Only courses listed in this catalog may be challenged. Departments may exclude performance or other courses from challenge. Campus challenge procedure is open only to matriculated students enrolled during summer, fall, and spring semesters. A course may be challenged only once.

Individual departments may require students to enroll in courses they wish to challenge. The deadline for returning forms showing challenge results to the Office of the University Registrar, Student Services Counter, Lassen Hall.

**Other Conditions Governing Award of Credit by Examination**

1. A student may not challenge a course if the course (or its equivalent) appears on the student's transcript with any grade other than "W".
2. Credit will not be awarded for successful passage of any systemwide examination if the student has taken that examination previously within the past term. Campus examinations may only be attempted one time.
3. Credit will not be awarded when equivalent degree credit has been granted for regular coursework, credit by evaluation or other instructional process, such as correspondence, at any institution.
4. Credit will not be awarded when credit has been granted at a level more advanced than that represented by the examination in question.
5. Where there is partial overlap with prior credit granted, the amount of examination credit will be reduced accordingly.
6. The total amount of credit earned on the basis of externally or internally developed tests that may be applied to a baccalaureate degree will not exceed 30 semester units. Advanced Placement credit is excluded from the limit. Total examination credit earned toward a master's or doctoral degree may not exceed 6 units.
7. Credit earned by examination will be so identified on the student's permanent record. The name of the examination is included for systematic examinations; the course number and title will be shown for campus examinations. An unsuccessful challenge will result in a grade of "NC", also noted as "by examination".
8. Neither systemwide nor campus examination nor advanced placement examination credits count toward the degree residence requirement. Additional conditions affecting campus examinations only:
   a. Individual departments may require a specific grade point average for credit.
   b. Departments or divisions may have established limits on the number of credits within the area. A maximum of 12 units in any one foreign language may be earned by exam; the total of foreign language units earned by examination may not exceed 16.
   c. Credit awarded for campus examinations is for elective purposes unless approved by appropriate department chairs for use in meeting major or minor requirements. Credit by examination may not be used for General Education requirements except as noted.

**International Baccalaureate Examination**

**Sacramento State Equivalencies for International Baccalaureate (IB) Exams**

Sacramento State will accept credit for admissions and advanced standing credit for students completing the International Baccalaureate (IB), a college preparatory program. Advanced standing credit may be earned for scores of 4, 5, 6 or 7 for the “Higher Level”\(^1\) examination. Students will be obliged to submit a copy of their official IB transcript. See table for Sacramento State Equivalencies.

A minimum score of 5 is required on some Higher Level IB exams in order to receive credit. Please see the table below for specific information regarding exams; exams requiring a minimum score of 5 will be marked with an asterisk (*).

**Use of IB Credit**

<table>
<thead>
<tr>
<th>IB Exam</th>
<th>GE Area</th>
<th>GE Units</th>
<th>Elective Units</th>
<th>Course Equivalents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology*</td>
<td>B2 &amp; B3</td>
<td>3</td>
<td>3</td>
<td>BIO 10 &amp; Lab</td>
</tr>
<tr>
<td>Chemistry*</td>
<td>B1 &amp; B3</td>
<td>3</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Design Technology</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>None</td>
</tr>
<tr>
<td>Economics*</td>
<td>D-Economics</td>
<td>6</td>
<td>0</td>
<td>ECON 1A &amp; ECON 1B</td>
</tr>
<tr>
<td>Film</td>
<td>C-Arts</td>
<td>3</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Geography*</td>
<td>D-Geography</td>
<td>3</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Global Politics</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>None</td>
</tr>
<tr>
<td>History - Africa &amp; Middle East*</td>
<td>C-Humanities &amp; D-History</td>
<td>6</td>
<td>0</td>
<td>HIST 7 &amp; HIST 8</td>
</tr>
<tr>
<td>History - Americas*</td>
<td>C-Humanities &amp; D-History</td>
<td>6</td>
<td>0</td>
<td>HIST 51 &amp; HIST 17B</td>
</tr>
<tr>
<td>History - Europe/ME*</td>
<td>C-Humanities &amp; D-History</td>
<td>6</td>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>Information Technology in a Global Society</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>None</td>
</tr>
<tr>
<td>Language A Literature (including English)</td>
<td>C-Humanities</td>
<td>3</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Language A Lang &amp; Literature (including English)</td>
<td>C-Humanities</td>
<td>3</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Language B (English)</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>None</td>
</tr>
<tr>
<td>Language B (French): Score of 4</td>
<td>C-Humanities</td>
<td>4</td>
<td>2</td>
<td>FREN 2A &amp; Foreign Language Req</td>
</tr>
<tr>
<td>Language B (French): C-Humanities</td>
<td>Score of 5-7</td>
<td>4</td>
<td>2</td>
<td>FREN 2B &amp; Foreign Language Req</td>
</tr>
<tr>
<td>Language B (Spanish): C-Humanities</td>
<td>Score of 4</td>
<td>4</td>
<td>2</td>
<td>SPAN 2A &amp; Foreign Language Req</td>
</tr>
<tr>
<td>Language B (Spanish): C-Humanities</td>
<td>Score of 5</td>
<td>4</td>
<td>2</td>
<td>SPAN 2B &amp; Foreign Language Req</td>
</tr>
<tr>
<td>Language B (Spanish): C-Humanities</td>
<td>Score of 6 or 7</td>
<td>4</td>
<td>2</td>
<td>SPAN 42, SPAN 47 &amp; Foreign Language Req</td>
</tr>
<tr>
<td>Mathematics: Analysis and Approaches</td>
<td>B4</td>
<td>3</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Mathematics: Applications and Interpretation</td>
<td>B4</td>
<td>3</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Mathematics (2020 exam or prior)</td>
<td>B4 &amp; B5</td>
<td>6</td>
<td>0</td>
<td>MATH 24 &amp; STAT 1</td>
</tr>
<tr>
<td>Music</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>None</td>
</tr>
<tr>
<td>Philosophy</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>None</td>
</tr>
<tr>
<td>Physics*</td>
<td>B1 &amp; B3</td>
<td>4</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td>Psychology*</td>
<td>D-Psychology</td>
<td>3</td>
<td>0</td>
<td>PSYC 2</td>
</tr>
<tr>
<td>Theatre</td>
<td>C-Arts</td>
<td>3</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>Visual Arts</td>
<td>None</td>
<td>0</td>
<td>6</td>
<td>None</td>
</tr>
</tbody>
</table>

*The following IB "Higher Level" exams require a minimum score of 5 in order to receive credit:

- Biology
- Chemistry
- Economics
- Geography
- History - Africa and Middle East
- History - Americas
- History - Europe/ME
- Physics
- Psychology

**Waiver of Regulations**

Rules and regulations in this catalog have been adopted by the faculty and administration to maintain appropriate academic standards and to facilitate the administration of the programs of the University. A student who finds that extenuating circumstances might justify the waiver of a particular regulation may file a petition with the Office of the University Registrar, Student Services Counter, Lassen Hall.
ADMISSION

Undergraduate Admissions (p. 40)  Graduate Admissions (p. 56)  International Admissions (p. 59)

Undergraduate Admissions

Application Information and Forms
Office of Admissions and Outreach
Lassen Hall - Room 1102
Office of Admissions and Outreach Website (https://www.csus.edu/apply/admissions/)

Requirements for admission to California State University, Sacramento are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Code of Regulations. Complete information is available on the California State University (CSU) website (http://www.calstate.edu/).

The Office of Admissions and Outreach provides prospective students with information about academic programs, admission requirements, and the application process.

All CSU applications must be submitted online (http://calstate.edu/apply/) on the Cal State Apply (http://www.calstate.edu/apply/) website. An acknowledgement will be sent to the applicant when the online application has been submitted.

Students who want to enroll for residence credit in either a fall or spring semester must file an application for admission. A student who has been in attendance at Sacramento State in either of the two preceding semesters is considered a continuing student and does not need to reapply or pay the $70 application fee. The application and fee are necessary when reentering California State University, Sacramento after an absence of two or more semesters, but are not required for students desiring to enroll only in Open University (https://cce.csus.edu/open-university/) or intersession.

Sacramento State Affirmative Action and Non-Discrimination Policy

Sacramento State seeks the participation in all its programs and activities, including admission and access, by all individuals without regard to race, color, religion, origin, age, sex, gender, gender identity/expression, sexual orientation, genetic information, medical condition, marital status, veteran status, or disability. Discrimination based on these factors is prohibited by University policy. Sacramento State has established nondiscrimination and affirmative action programs that conform to applicable federal statutes, as well as pertinent laws, regulations, and directives of the State of California. These statutes prohibit discrimination and harassment (including sexual harassment) against applicants, students, and employees. Sacramento State is committed to provide equal opportunities to all its students in all university programs, including intercollegiate athletics. William "Skip" Bishop, the Director of Equal Opportunity, has been designated to coordinate the efforts of Sacramento State to comply with all applicable federal and state laws prohibiting discrimination and harassment on these bases.

For further information, or should you feel that you have been discriminated against in any one of the areas mentioned, including

Social Security Number

Applicants are required to include their correct social security numbers in designated places on applications for admission pursuant to the authority contained in Section 41201, Title 5, California Code of Regulations, and Section 6109 of the Internal Revenue Code (26 U.S.C. 6109). The university uses the social security number to identify students and their records including identification for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution. Also, the Internal Revenue Service (IRS) requires the university to file information returns that include the student's social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. This information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes.

The student's social security number is not used as the individual identifier in all student records which may include:

1. application and admissions records,
2. registration records,
3. enrollment/transcript records,
4. financial aid records,
5. alumni records, and
6. records maintained by other University operated programs.

A student is assigned a unique Sacramento State ID upon submission of an application for admission to the University, which is used as the student identifier in all student records.

Such personally identifiable records are not shared or distributed to private individuals or agencies unless such sharing or distribution is authorized by the student or unless otherwise lawfully available. (See Appendix D).

Undergraduate Application Procedures

Prospective students applying for part-time or full-time undergraduate programs of study must submit a completed undergraduate application through Cal State Apply (https://www2.calstate.edu/apply/). The $70 nonrefundable application fee should be paid online at the time of application via credit card or PayPal and may not be transferred or used to apply to another term. Students who apply for admission through Cal State Apply are automatically considered for an application fee waiver. The application must be fully completed before application fee waiver eligibility is determined. The applications of persons denied admission to an impacted university may be redirected to another university at no cost, but only if the applicant is CSU eligible.

Importance of Filing Complete, Accurate, and Authentic Application Documents

Sacramento State advises prospective students that they must supply complete and accurate information on the application for admission, residency questionnaire, and financial aid forms. Further, applicants must, when requested, submit authentic and official transcripts of all Title IX, Section 504 of the Rehabilitation Act of 1973 and the provisions of the Americans with Disabilities Act of 1990, as amended, contact the Office for Equal Opportunity at (916) 278-5770, email (equalopportunity@csus.edu), or visit our website (https://www.csus.edu/diversity-inclusion/division-inclusive-excellence/of equal-equal-opportunity/).
previous academic work attempted. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of registration or academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

Impacted Programs
The CSU designates programs as impacted when more applications from regularly eligible applicants are received in the initial filing period (October and November for fall terms, June for winter terms, August for spring terms, February for summer terms) than can be accommodated. Some programs are impacted at every university which they are offered; others are impacted only at a few universities. Candidates for admission must meet all of the university's specified supplementary admission criteria if applying to an impacted program or university.

The CSU will announce during the fall filing period those CSUs or programs that are impacted. Detailed information on university and program impaction is available on the Impaction at the CSU (http://www2.calstate.edu/attend/impaction-at-the-csu/) website.

Each university will communicate supplementary admission criteria for all impacted programs to high schools and community colleges in their application service area and will disseminate this information to the public through appropriate media. This information will also be published on the Sacramento State website and made available online (http://www.calstate.edu).

Applicants must file applications for admission to an impacted program during the initial filing period. Applicants who wish to be considered for impacted programs at more than one university should file an application at each university for which they seek admission consideration.

Supplementary Admission Criteria
Each university with impacted programs or class-level admission categories uses supplementary admission criteria in screening applicants. Supplementary criteria may include rank-ordering of freshman applicants based on the combination of student's "A-G" GPA and supplemental factors or rank-ordering of transfer applicants based on verification of the Associate in Arts for Transfer (AA-T) or Associate in Science Transfer (AS-T) degrees, the overall transfer grade point average (GPA), completion of specified prerequisite courses and a combination of university-developed criteria. Applicants for freshman admission to impacted universities or programs may need to have a higher "a-g" GPA. In no case will standardized test scores be utilized in making freshman admission decisions.

The supplementary admission criteria used by individual CSUs to screen applicants are made available by the universities to all applicants seeking admission to an impacted program.

Sacramento State Designated Impacted Programs
All undergraduate programs in Business have been officially designated as impacted programs on the Sacramento State university. Check with the Undergraduate Business Advising Center to confirm current criteria at (916) 278-3952.

See Academic Programs/Business (p. 358).

The upper division Clinical Nursing Program has been officially designated as an impacted program on the Sacramento State university. Check with the Division of Nursing to confirm current criteria at (916) 278-6525.

See Academic Programs/Nursing (p. 725).

The upper division Graphic Design program has officially designated as an impacted program on the Sacramento State university. Check with the Department of Design, (916) 278-3952, to confirm current criteria.

See Academic Programs/Graphic Design (p. 180).

All undergraduate programs in Criminal Justice have been officially designated as impacted programs on the Sacramento State university. Check with the Department of Criminal Justice to confirm current criteria at (916) 278-6487.

See Academic Programs/Criminal Justice (p. 683).

All undergraduate programs in Psychology have been officially designated as impacted programs on the Sacramento State university. Check with the Department of Psychology to confirm current criteria at (916) 278-6254.

See Academic Programs/Psychology (p. 1059).

All undergraduate programs in Public Health have been officially designated as impacted programs on the Sacramento State university. Check with the Department of Public Health to confirm current criteria at (916) 278-6441.

See Academic Programs/Public Health (p. 747).

In addition to the Business, Criminal Justice, Graphic Design, Health Science Psychology and Public Health programs, it is possible that any class level or program categories may be impacted if more applications are received in the initial filing period than can be accommodated by the University. Preapproved criteria are announced prior to the beginning of each application cycle. Admission criteria are subject to revision.

English Language Requirement
All undergraduate applicants whose native language is not English and who have not attended schools at the secondary level or above for at least three years full-time where English is the principal language of instruction must demonstrate English language proficiency through one of the following acceptable tests.

<table>
<thead>
<tr>
<th>Test</th>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOEFL (Test of English as a Foreign Language)</td>
<td>Score of 510 (paper based test)</td>
<td>Score of 550(^1) (paper based test)</td>
</tr>
<tr>
<td>TOEFL (Internet based test)</td>
<td>Score of 64</td>
<td>Score of 80(^1) (Internet based)</td>
</tr>
<tr>
<td>PTE Academic</td>
<td>Score of 50</td>
<td>Score of 65(^1)</td>
</tr>
<tr>
<td>IELTS (Academic)</td>
<td>Overall band score of 6.0</td>
<td>Overall band score of 6.5(^1)</td>
</tr>
<tr>
<td>DuoLingo</td>
<td>Score of 95</td>
<td>NA</td>
</tr>
</tbody>
</table>

Some majors and some CSUs may require a higher score. A few CSUs may also use alternative methods of assessing English fluency: Pearson Test of English Academic (PTE Academic), the International English Language Testing System (IELTS) and the International Test of English Proficiency (ITEP). Each university will post the tests it accepts on
its website and will notify students after they apply about the tests it accepts and when to submit scores.

CSU minimum TOEFL standards are:

<table>
<thead>
<tr>
<th>Level</th>
<th>Minimum Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>61 - INTERNET, 500 - PAPER</td>
</tr>
<tr>
<td>Graduate</td>
<td>80 - INTERNET, 550 – PAPER</td>
</tr>
</tbody>
</table>

At the graduate level, a TOEFL score of 550 (or 80 internet based test) is required for admission for all students, with the following exceptions:

- Communication Studies,
- English,
- International Affairs,
- Speech Pathology and Audiology,
- Teaching English to Speakers of Other Languages (TESOL) require higher scores.

1 Note: Sacramento State interprets "where English was the principal language of instruction" to mean that a school is located in a country where English is the official language (the daily medium of communication of the majority of residents is English), and that the students receive academic instruction in all subjects (except foreign language courses) at all levels of education in English.

Returning Students

Sacramento State students are granted an automatic leave of absence for one semester. This leave maintains the continuous attendance status of the student with eligibility to register in the following semesters and holds the catalog that determines degree requirements.

Former Sacramento State students who have been absent for two or more semesters must apply for readmission. An application fee is charged. Following a mandatory interruption of one or more semesters, students who have left in a negative academic standing 1 may not be eligible to return until they complete additional coursework. Students who have been academically disqualified or dismissed must file an appeal for reinstatement/readmission. 2

1 Visit https://www.csus.edu/student-affairs/centers-programs/student-services-center/reinstatement.html for more information
2 See Academic Policies/Readmission of Academically Dismissed Student (p. 27)

Reservation

The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant's suitability and the best interests of the University.

Steps in the Application Process

Application Filing Periods

(Not all universities/programs are open for admission to every term.)

Sacramento State uses a semester-based academic calendar. The initial filing periods for applications are the previous October through November for fall semester and the previous August for spring semester. All applications received during the initial filing period will be given equal consideration within established enrollment categories and quotas.

Additional selection criteria may be used to select applicants if more applications are received during the initial filing period than can be accommodated in specific enrollment categories. If the university is designated an “impacted university,” supplemental criteria may be used to select applicants.

If any enrollment categories are not filled during the initial filing period, the University will continue to accept applications during an extended filing period until capacity is reached. Enrollment priorities within the extended period will be in chronological order of receipt of applications.

<table>
<thead>
<tr>
<th>Term</th>
<th>Applications First Accepted</th>
<th>Initial Filing Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>October 1</td>
<td>October 1 - November 30</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>August 1</td>
<td>August 1 - 31</td>
</tr>
</tbody>
</table>

Filing Period Duration

Each non-impacted university accepts applications until capacities are reached. Many universities limit undergraduate admission in an enrollment category due to overall enrollment limits. If applying after the initial filing period, consult the university admissions office for current information.

Application Acknowledgment

On-time applicants may expect to receive an acknowledgment from the universities to which they have applied within two to four weeks of filing the application. The notice may also include a request that applicants submit additional records necessary to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates that applicants meet CSU admission requirements, and in the case of admission impaction, supplemental criteria for admission to an impacted program. Unless specific written approval/confirmation is received, an offer of admission is not transferable to another term or to another university.

Transcript and Test Score Requirements (Note: For Fall 2021 and Fall 2022 admission, test score requirements have been suspended)

Undergraduate students are required to comply with the following transcript and test score requirements as part of the application procedures for admission. Applicants project their class level as of the date of intended initial enrollment.

- Applicants with No College Units:
  Transcripts: One from high school showing final senior grades and date of graduation. Tests: Either ACT or SAT score.
- Applicants with Fewer Than 60 Semester Units:
  Sacramento State is not accepting applications from lower division transfer applicants with fewer than 60 transferable units.
- Applicants with 60 or More Transferable Semester Units:
  Transcripts: One official copy of final record from each college attended; one showing work-in-progress if currently enrolled.
- Returning Students:
  Transcripts: One official copy of final record from each college attended since last enrollment at Sacramento State; one showing work in progress if currently enrolled.

All transcripts become the property of the University and will not be released or copied. Processing of applications cannot be guaranteed unless all required documents and test scores are received during the
applicants who would be faced with extreme hardship if not admitted. Petitioners should write to the university Admission Offices regarding specific policies governing hardship admission.

Appeal of Admission Decision

Section 89030.7 of the California Education Code requires that the CSU establishes specific requirements for appeal procedures for a denial of admission. Each CSU university must publish appeal procedures for applicants denied admission to the University. The procedure is limited to addressing university decisions to deny an applicant admission to the University.

Admissions appeal procedures must address the basis for appeals, provide 15 business days for an applicant to submit an appeal, stipulate a maximum of one appeal per academic term, provide specific contact information for the individual or office to which the appeal should be submitted, and indicate a time estimate for when the university expects to respond to an appeal. The appeal procedures must be included in all denial of admission notifications to students, and must also be published on the university website.

Visit the "Admission Appeals" link at the Office of Admissions and Outreach website (https://www.csus.edu/apply/admissions/application-process/appeals.html) for more information.

Freshman Requirements

Office of Admissions and Outreach
Lassen Hall Lobby - Room 1102
Office of Admissions and Outreach Website (https://www.csus.edu/apply/admissions/)

Generally, applicants will qualify for consideration for first-time freshman admission if they meet the following requirements:

1. Have graduated from high school, have earned a Certificate of General Education Development (GED) or have passed the California High School Proficiency Examination (CHSPE);
2. Complete the 15-unit comprehensive "a-g" pattern of college preparatory courses;
3. Have completed, with grades of C- or better, each of the courses in the comprehensive pattern of college preparatory subject requirements also known as the "a-g" pattern (see "Subject Requirements"); and
   • The CSU will accept "Credit" or "Pass" grades to satisfy "a-g" requirements completed during Winter, Spring, Summer or Fall 2020 terms and during Winter, Spring or Summer 2021 terms. The CSU expects and assumes that high school Pass (Credit) grades will represent work completed at the C- or higher level. Beginning Fall 2021 and forward, grades are expected for courses.
4. Earn a qualifying "a-g" grade point average (GPA) as described below.
   • California residents and graduates of California high schools will be eligible for admission by earning a 2.50 or greater "a-g" GPA.
   • Any California high school graduate or resident of California earning a GPA between 2.00 and 2.49 may be evaluated for admission based upon supplemental factors such as number of courses exceeding minimum "a-g" requirements, household income, extracurricular involvement, and other available information that would inform the university admission decision.
   • Non-California residents may be eligible for admission to the CSU by earning a 3.00 or greater "a-g" GPA along with other supplemental factors utilized by the individual university, including those outlined by impacted universities and programs.
   • Any Non-California resident earning a GPA between 2.47 and 2.99 may be evaluated for admission based upon supplemental factors such as number of courses exceeding minimum "a-g" requirements, household income, extracurricular involvement, and other available information that would inform the university admission decision.
5. Each CSU university will determine the supplemental factors used with GPA to determine eligibility in these cases and communicate these criteria publicly for prospective students.

The California State University (CSU) has permanently discontinued the use of ACT/SAT examinations in determining admission eligibility. Submitted test scores by admitted students would be considered only for purposes of student placement in Math or English courses.

1 The use of the admission eligibility index has been suspended for Fall 2021 and Fall 2022 admission. See https://www.csus.edu/apply/admissions/application-process/freshman-process.html

Honors Courses

Up to eight semesters of approved honors courses taken in the last two years of high school including up to two approved courses taken in the tenth grade, can be accepted toward students' high school GPA (see "Eligibility Index"). Each unit (one year) of grade "A" in an honors course will receive 5 points; grade "B," 4 points; and grade "C," 3 points.

Subject Requirements

The CSU requires that first-time freshman applicants complete, with grades of "C-" or better, a comprehensive pattern of college preparatory study totaling 15 units (a "unit" is one year of study in high school).

• 2 years of social science, including 1 year of U.S. history, or U.S. history and government
• 4 years of English
• 3 years of math (algebra, geometry, and intermediate algebra; four years recommended)
• 2 years of laboratory science (1 biological and 1 physical, both must have laboratory instruction)
• 2 years in the same foreign language (subject to waiver for applicants demonstrating equivalent competence)
• 1 year of visual and performing arts: art, dance, drama/theater, or music
• 1 year of electives: selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts or other courses approved and included on the UC/CSU "a-g" list.

Note: All admission requirements (i.e., grade point average, test scores, and subjects) must be completed by the end of the spring term for a fall enrollment and the end of summer for a spring enrollment.

**Advanced Placement (AP) Exams and Advanced Standing Credit**

Sacramento State grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board.

- Students may be granted up to 6 units for each Advanced Placement (AP) examination for which a score of 3, 4, or 5 is earned.
- Transferable college courses completed as a high school student will be evaluated for possible college credit upon receipt of an official college transcript. For the Official Transfer Evaluations click here (p. 27).

**Foreign Language Subject Requirements**
The foreign language subject requirement may be satisfied by applicants who demonstrate competence in a language other than English equivalent to or higher than expected of students who complete two years of foreign language study. Consult with a school counselor or any CSU admissions office for information.

**International Baccalaureate (IB)**
Sacramento State recognizes completion of the International Baccalaureate (IB) program as satisfying the college preparatory subject requirements for admission. The applicant’s high school GPA and score on the ACT or SAT will also be used in determining eligibility for admission.

1. See Academic Policies/Credit by Examination/Sacramento State Equivalencies for IB Exams (p. 27).

**Eligibility Index**

Eligibility Index – The eligibility index is the combination of the high school GPA and scores on either the ACT or the SAT. GPA is based on grades earned in courses taken during the final three years of high school. Included in the calculation of GPA are grades earned in all college preparatory “a-g” subject requirements and bonus points for approved honors courses. Up to eight semesters of honors courses taken in the last three years of high school, including up to two approved courses taken in the tenth grade can be accepted. Each unit of A in an honors course will receive a total of 5 points; B, 4 points; and C, 3 points.

A CSU eligibility index can be calculated by multiplying a GPA by 800 and adding the total score on the SAT exam (Mathematics and Evidence-Based Reading and Writing). For students who took the ACT, multiply the GPA by 200 and add 10 times the ACT composite score. Persons who are California high school graduates (or residents of California for tuition purposes) need a minimum index of 2950 or 694 using the ACT. The Eligibility Index Table illustrates several combinations of required test scores and averages. The university has no current plans to include the writing scores from either of the admissions tests in the computation of the CSU eligibility index.

Persons who neither graduated from a California high school nor are a resident of California for tuition purposes need a minimum index of 3570 or 842 using the ACT. Graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applicants eligible under this section. An applicant with a grade point average of 3.00 or above (3.61 for nonresidents) is not required to submit test scores. However, all applicants for admission are urged to take the SAT or ACT and provide the scores of such tests to each CSU university to which they seek admission. Universities use these test results for advising and placement purposes and may require them for admission to impacted majors or programs. Impacted CSU universities require SAT or ACT scores of all applicants for freshman admission.

Registration forms and the dates for either test may be obtained from school or college counselors or from a university Testing Office. Testing information is also available at the Sacramento State Testing website (https://www.csus.edu/student-affairs/centers-programs/testing-center/), or by writing to:

College Board (SAT)
Registration Unit, Box 6200
Princeton, New Jersey 08541-6200
(609) 771-7600
College Board Website (http://www.collegeboard.org)

American College Testing Program (ACT)
Registration Unit, P.O. Box 414
Iowa City, Iowa 52243
(319) 337-1270
ACT Website (http://www.act.org)

1. The use of the admission eligibility index has been suspended for Fall 2021 and Fall 2022 admission. See https://www.csus.edu/apply/admissions/application-process/freshman-process.html

Applicants will qualify for regular (non-provisional) admission when the University verifies that they have graduated and received a diploma from high school, have a qualifiable minimum eligibility index, have completed the comprehensive pattern of college preparatory “a-g” subjects, and, if applying to an impacted program or university, have met all supplementary criteria.

Graduates of secondary schools in foreign countries will be judged to have academic preparation and abilities equivalent to applicants eligible under this section.

Refer to Application to Sacramento State/Undergraduate/Impacted Programs (p. 27).

**Eligibility Index Table for California High School Graduates or Residents of California**

A GPA of 3.00 and above qualifies for any score in ACT or SAT.¹

<table>
<thead>
<tr>
<th>GPA</th>
<th>ACT Score</th>
<th>New SAT Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.99</td>
<td>10</td>
<td>560</td>
</tr>
<tr>
<td>2.98</td>
<td>10</td>
<td>570</td>
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<tr>
<td>2.97</td>
<td>10</td>
<td>580</td>
</tr>
<tr>
<td>2.96</td>
<td>11</td>
<td>590</td>
</tr>
<tr>
<td>2.95</td>
<td>11</td>
<td>590</td>
</tr>
</tbody>
</table>

¹ See Academic Policies/Credit by Examination/Sacramento State Equivalencies for IB Exams (p. 27).
<table>
<thead>
<tr>
<th>GPA</th>
<th>Index</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.94</td>
<td>11</td>
<td>600</td>
</tr>
<tr>
<td>2.93</td>
<td>11</td>
<td>610</td>
</tr>
<tr>
<td>2.92</td>
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</tbody>
</table>

A GPA below 2.0 does not qualify for regular admission

1 For admission purposes, the CSU uses only the new SAT scores for mathematics and evidence based on reading and writing.

Eligibility Index Table for Non-resident or Non-graduates of California

A GPA of 3.61 and above qualifies for any score in ACT or SAT.¹
<table>
<thead>
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<th>ACT Score</th>
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</tbody>
</table>

ACT - A GPA below 2.45 does not qualify for admission

SAT - A GPA below 2.47 does not qualify for admission

1 For admission purposes, the CSU uses only the new SAT scores for mathematics and evidence based on reading and writing.

**Subject Requirements Substitution for Students with Disabilities**

Applicants with disabilities are strongly encouraged to complete college preparatory course requirements if at all possible. If an applicant is judged unable to fulfill a specific course requirement because of his or her disability, alternate college preparatory courses may be substituted for specific subject requirements.

Substitutions may be authorized on an individual basis after review and recommendation by the applicant’s academic advisor or guidance counselor in consultation with the director of a CSU disabled student services program. Although the distribution may be slightly different from the course pattern required of other students, students qualifying for substitutions will still be held accountable for 15 units of college preparatory study.

Students should be aware that course substitutions might limit later enrollment in certain majors, particularly those involving mathematics. For further information and substitution forms, please call the director of disabled student services at the nearest CSU university.

**Provisional Admission**

Sacramento State may provisionally admit first-time freshman applicants based on their academic preparation through the junior year of high school and planned coursework for the senior year. The university will monitor the final terms of study to ensure that admitted students complete their secondary school studies satisfactorily, including the required college preparatory subjects, and graduate from high school. Students are required to submit an official transcript after graduation to certify that all coursework has been satisfactorily completed. Official high school transcripts must be received prior to the deadline set by the university. In no case may documentation of high school graduation be received any later than the census date for a student’s first term of CSU enrollment. A CSU may rescind admission decisions, cancel financial aid awards, withdraw housing contracts and cancel any university registration for students who are found to be ineligible after the final transcript has been evaluated.

Applicants will qualify for regular (non-provisional) admission when the university verifies that they have graduated and received a high school diploma, have earned a qualifiable minimum eligibility index, have completed the comprehensive pattern of college preparatory “a-g”
subjects and, if applying to an impacted program or university, have met all supplementary criteria.

**Special Categories**

**Educational Opportunity Program**

EOP, a special admission and support program for students who possess the potential and motivation to succeed, is designed to improve access and retention of low-income and educationally disadvantaged students among California residents who wish to pursue a college education.\(^1\)

1. See Centers for Academic Support/EOP (https://catalog.csus.edu/academic-support-services/).

**Veterans**

See the Veterans Success Center website (https://www.csus.edu/student-affairs/centers-programs/veterans-success-center/).

**High School Students**

Office of Admissions and Outreach  
Lassen Hall 1102

High school students may be considered for enrollment in certain special programs if recommended by the principal and the appropriate university department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given specific program and does not constitute a right to continued enrollment.

These programs include:

1. Accelerated College Entrance (ACE) for talented students who can benefit from accelerated academic studies, available by phone at (916) 278-7032;
2. Capitol Center MESA for underrepresented students in CSU mathematics, engineering, and science programs, available by phone at (916) 278-6699.

Students accepted into these programs qualify for reduced fees.

High school students other than those accepted into the above programs may also enroll concurrently in college courses without fee reduction upon approval of parents, high school principal, and appropriate Sacramento State academic department chairs.

**Applicants Not Regularly Eligible**

Applicants not admissible under one of the above provisions should enroll at a community college or another appropriate institution in preparatory courses to meet eligibility requirements. Only under the most unusual circumstances and only by special action will such applicants be admitted to Sacramento State.

**Admissions Appeal** - Section 89030.7 of the California Education Code requires that the California State University establishes specific requirements for appeal procedures for a denial of admission. Each CSU university must publish appeal procedures for applicants denied admission to the University. The procedure is limited to addressing university decisions to deny an applicant admission to the University.

Admissions appeal procedures must address the basis for appeals, provide 15 business days for an applicant to submit an appeal, stipulate a maximum of one appeal per academic term, provide specific contact information for the individual or office to which the appeal should be submitted, and indicate a time estimate for when the university expects to respond to an appeal. The appeal procedures must be included in all denial of admission notifications to students, and must also be published on the university website. Visit the "After Admission decisions are made link at the Admissions and Outreach website (https://www.csus.edu/apply/admissions/application-process/) for more information.

**Reservation**

The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant’s suitability and the best interests of the University.

**Transfer Student Preparation**

Prospective transfer students may obtain general information on Sacramento State educational opportunities and matriculation procedures from Sacramento State admission and outreach representatives at California community college transfer day and regional college night programs. Representatives are also available at selected transfer centers on a regular basis to provide specific information on CSU matriculation procedures, eligibility for admission, and evaluation of credit. Prospective students who don’t have access to a transfer center can schedule an appointment with an admission counselor for a pre-admission advising session. Applicants should bring unofficial transcripts to these sessions. Contact the Office of Admissions & Outreach for admission counseling hours and availability.

To make an appointment with academic department faculty to discuss academic program requirements and career alternatives, prospective students should call the relevant department office.

Hour-long student-led weekday university tours are scheduled one week in advance for small and large groups. To schedule a tour on line visit the university Tours website (https://www.csus.edu/experience/visit/campus-tours/).

**Acceptance of Transfer Courses**

Sacramento State annually enrolls more than 5,000 new transfer students from more than 300 different colleges and universities, mostly California community colleges.

Frequently, course titles and numbers differ from university to university, making it difficult for transfer students to know in advance which courses will be accepted for transfer to another college. In order to provide students with the assurance that courses taken at their university prior to transfer will meet Sacramento State lower-division requirements for either General Education or a specific major, three methods of prior approval exist.

**General Education Courses**

The CSU system has authorized California community colleges and other approved colleges to designate “transferable” courses planned for use in a four-year baccalaureate program. In addition, they have jointly designated courses that may be used to certify a portion of the CSU General Education objectives to a maximum of 39 semester units. Sacramento State will apply courses completed at a California community college toward the CSU General Education objectives as listed on the community college certification form.
Students may have their lower division General Education courses certified by a California community college as meeting either the CSU GE Breadth Requirements or the Intersegmental General Education Transfer Core Curriculum (IGETC) in partial completion of the General Education requirements for the baccalaureate degree.¹

Upon matriculation, the Degree Evaluations Office will review courses completed at non-CSU colleges and universities; credit will be granted toward the Sacramento State General Education requirements in compliance with applicable CSU system, Sacramento State, and academic department policies.

¹ See General Education Policies/Transfer Students (https://catalog.csus.edu/baccalaureate-degree-requirements/).

Lower Division Major Prerequisites
Sacramento State also has developed an extensive program of major preparation agreements called “Articulation” or “Transfer Credit Agreements.” These are official documents prepared by Sacramento State faculty who carefully review coursework at other institutions and identify courses at those universities that would be acceptable in lieu of Sacramento State courses. Students who take these courses can be assured they will receive credit toward their academic major at Sacramento State.

Articulation Agreements
Sacramento State has thousands of Articulation Agreements with community colleges and four-year institutions throughout the state. These Articulation Agreements are widely distributed and should be readily available to students at their home university Counseling Centers or online at www.assist.org (https://assist.org/).

Transfer Centers
University representatives staffing Transfer Centers on community college universities advise community college students on transfer issues, providing an excellent resource for prospective transfer students.

Transfer Student Assistance
Students may receive assistance in transferring to Sacramento State through the Transfer Centers at the following universities:

- American River College (916) 484-8685
- Cosumnes River College (916) 691-7456
- Folsom Lake College (916) 608-6510
- Napa Valley College (707) 253-3115
- Sacramento City College (916) 558-2181
- San Joaquin Delta College (209) 954-5634
- Santa Rosa Junior College (707) 527-4874
- Sierra College (916) 660-7441
- Solano College (707) 864-7158
- Yuba College (530) 741-6790

Undergraduate Transfer Admission Requirements
Transfer Policies of California State University
Most commonly, college-level credits earned from an institution of higher education accredited by a regional accrediting agency are accepted for transfer to member universities of the CSU; However, authority for decisions regarding the transfer of undergraduate credits is delegated to each university.

California Community Colleges and other authorized certifying institutions can certify up to 39 semester (58.5 quarter) units of General Education-Breadth (GE-Breadth) or 37 semester (55.5 quarter) units of the Intersegmental General Education Transfer Curriculum (IGETC) for transfer students to fulfill lower-division general education requirements for any CSU prior to transfer.

"Certification" is the official notification from a California Community College or authorized institution that a transfer student has completed courses fulfilling lower-division general education requirements. The CSU GE-Breadth and the Intersegmental General Education Transfer Curriculum (IGETC) certification course lists for particular community colleges can be accessed on the official transfer and articulation system for California’s public colleges and universities website, assist.org (https://assist.org/).

CSUs may enter into course-to-course or program-to-program articulation agreements with other CSUs, any or all of the California community colleges and other regionally accredited institutions. Established CSU and CCC articulations may be found on assist.org (https://assist.org/). Students may be permitted to transfer no more than 70 semester (105 quarter) units to a CSU from an institution which does not offer bachelor’s degrees or their equivalents, for example, community colleges. Given the university’s 30-semester (45-quarter) unit residency requirement, no more than a total of 90 semester (135 quarter) units may be transferred into the university from all sources.

Transfer Requirements
Applicants who have completed fewer than 60 transferable semester college units (fewer than 90 quarter units) are considered lower-division transfer students. Applicants who have completed 60 or more transferable semester college units (90 or more quarter units) are considered upper-division transfer students. Applicants who complete college units during high school or through the summer immediately following high school graduation are considered first-time freshmen and must meet the CSU minimum eligibility requirements for first-time freshman admission. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses and accepted as such by the university to which the applicant seeks admission.

Lower Division Transfers Requirements
Due to increased enrollment demands, some CSUs do not admit lower-division transfer applicants. Students are advised to check the rSPFYpective university they are interested in to see if lower division transfer applications are accepted.

An applicant who completes fewer than 60 semester (90 quarter) units of college credit is considered a lower-division transfer student. Due to enrollment pressures, most CSUs do not admit lower-division transfers so that more upper-division transfers can be accommodated.

Having fewer than 60 semester (90 quarter) units at the point of transfer may affect eligibility for registration priority at a CSU university; and may affect the student’s financial aid status.

California resident transfer applicants with fewer than 60 semester or 90 quarter units must:
- Have a cumulative grade point average of 2.0 (C) or better in all transferable units attempted;
- Have completed, with a grade of C- or better, a course in written communication and a course in mathematics or quantitative
reasoning at a level satisfying CSU General Education Breadth Area A2 and B4 requirements; rSPFYtective;
  • Be in good standing at the last institution attended; and
  • Meet any one of the following eligibility standards.

**Transfer Based on Current Admission Criteria**

The applicant meets the freshman admission requirements in effect for the term for which the application is filed; - OR -

**Transfer Based on High School Eligibility**

The applicant was eligible as a freshman at the time of high school graduation and has been in continuous attendance in an accredited college since high school graduation; - OR -

**Transfer Based on Making Up Missing Subjects**

The applicant had a qualifiable eligibility index at the time of high school graduation (combination of GPA and test scores if needed), has made up any missing college preparatory subject requirements with a grade of C- or better, and has been in continuous attendance in an accredited college since high school graduation. One baccalaureate-level course of at least 3 semester (4 quarter) units is usually considered equivalent to one year of high school study.

(Note: Some CSUs may require lower-division transfer students to complete specific college coursework, for example the four basic skill courses, as part of their admission criteria.)

**Upper Division Transfers Requirements**

Generally, applicants will qualify for consideration for upper-division transfer admission if they meet all of the following requirements:

1. Cumulative grade point average of at least 2.0 in all transferable units attempted;
2. In good standing at the last college or university attended; and
3. Completed at least sixty (60) transferable semester (90 quarter) units of college level coursework with a grade point average of 2.0 or higher and a grade of C- or better in each course used to meet the CSU general education requirements in written communication, oral communication, critical thinking, and quantitative reasoning, e.g. mathematics.

The 60 units must include at least 30 units of courses that meet CSU general education requirements, including all of the general education requirements in communication in the English language (both oral and written) and critical thinking and the requirement in mathematics/quantitative reasoning (usually 3 semester units) or the Intersegmental General Education Transfer Curriculum (IGETC) requirements in English communication and mathematical concepts and quantitative reasoning.

**Associate Degrees for Transfer (AA-T or AS-T)**

The Associate in Arts for Transfer (AA-T) and the Associate in Science for Transfer (AS-T) degrees offered at the California Community Colleges (CCC) are designed to provide a California community college student the optimum transfer preparation and a clear admission pathway to the CSU degree majors.

CCC students who earn an Associate Degree for Transfer (AA-T or AS-T) are guaranteed admission with junior standing to a CSU and given priority admission consideration over other transfer applicants when applying to a local CSU or non-impacted CSU program. AA-T or AS-T admission applicants are given limited priority consideration based on their eligibility ranking to an impacted university/program or to CSUs/programs that have been deemed similar to the degree completed at the community college. Students who have completed an AA-T/AS-T in a program deemed similar to a CSU major are able to complete remaining requirements for graduation within 60 semester (90 quarter) units. It is the rSPFYtobility of the student who has earned an AA-T/AS-T to provide documentation of the degree to the CSU. For the admissions process, students are rSPFYtobility for working with their community college counselors to complete verification of AA-T or AS-T degree progress through the e-verify process within the established university deadlines.

**Provisional Admission**

Sacramento State may provisionally or conditionally admit transfer applicants based on their academic preparation and courses planned for completion. The university will monitor the final terms to ensure that those admitted complete all required courses satisfactorily. All accepted applicants are required to submit an official transcript of all college-level work completed. CSUs may rescind admission for any student who is found to be ineligible after the final transcript has been evaluated. In no case may such documents be received and validated by the university any later than a student’s registration for their second term of CSU enrollment.

**Local Area for Admission**

First-year freshmen applicants who graduate from high school in one of the following counties are considered in Sacramento State's local admission area: Sacramento, El Dorado, Nevada, Placer, San Joaquin, Solano or Yolo.

Transfer applicants transferring with the majority of units from one of the following community colleges are considered in Sacramento State’s local admission area: American River, Cosumnes River, Folsom Lake, Lake Tahoe, Sacramento City, Sierra, San Joaquin Delta, Solano, Woodland or Yuba.

Applicants from the local admission area who meet minimum admission eligibility requirements will be offered admission to the university. However, they may not be admitted to the major of their choice due to impaction.

**Wait List**

For application terms for which the number of eligible applicants for admission exceeds enrollment capacity, a waitlist will be established. Students who accept the offer to remain on the admission waitlist will be notified of an admission decision as space becomes available.

**Special Admission Categories 1**

1 Refer to Admission to Sacramento State (p. 27)/Special Categories.
Veterans also refer to Application to Sacramento State/CSU Impacted Programs/Supplemental Criteria.

**Admission of Auditors for Undergraduate Courses**

Admission as auditor may be restricted during periods of over-enrollment. Applicants may check with the Office of Admissions and Outreach or the Office of the University Registrar.

**Impacted Programs**

To obtain the most current information on impacted programs and supplemental criteria, refer to https://www.csus.edu/apply/admissions/application-process/impaction.html.
Catalog Rights for Degree Requirements

Transfer students may choose Sacramento State requirements in effect
1. at the time they began their college study at a California community college or a CSU,
2. at the time they entered Sacramento State, or
3. at the time they graduate from Sacramento State, provided they maintain attendance in college.¹

¹ See Degree Requirements (p. 27)/Catalog Rights.

Reservation

The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant’s suitability and the best interests of the University.

Evaluation of Transfer Credit

Allowance of Transfer Credit from Accredited Colleges and Universities

Generally, students will be granted credit for baccalaureate level courses successfully completed at regionally accredited two or four-year colleges. All courses, except remedial, are accepted for degree credit from institutions awarding four-year degrees. Credit is reviewed by the Degree Evaluations Office and is granted in compliance with applicable national, state, Title 5, CSU system, and University policies and procedures. Such credit may be applied toward fulfillment of major, minor, or general education requirements when applicable; other courses may count as elective credit toward the baccalaureate degree. This credit will be listed in summary form on the Sacramento State transcript of academic record.

Transfer credit generally is not posted to the Sacramento State transcript of post-baccalaureate students, including those seeking a Second Bachelor's degree. Check with the Office of Graduate Studies ((916) 278-6470) for exceptions.

Advanced Placement Examinations

Sacramento State grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of three or better will be granted up to six semester units of college credit.

Use of Advanced Placement Credit

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<th>AP Exam</th>
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<th>GE Units</th>
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Calculus AB¹

| Score of 3 | B4 | 4 | 2 | None |
| Calculus AB¹| B4 | 4 | 2 | MATH 30 |
| Calculus BC¹| B4 & B5 | 6 | 0 | MATH 30 & 31 |

Chemistry

| B1 & B3 | 4 | 2 | None |

Chinese Language & Culture

| C-Humanities | 3 | 3 | Foreign Language Requirement |

Computer Science A¹

| None | 0 | 6 | CSC 15 |

Computer Science AB¹

| B4 (May 2018 exam or later) | 3 | 3 | None |

Economics – Macroeconomics

| D-Economics | 3 | 3 | ECON 1A |

Economics – Microeconomics

| D-Economics | 3 | 3 | ECON 1B |

English Language and Composition

| A2 | 3 | 3 | ENGL 5 |

Environmental B1 & B3

| 4 | 2 | None |

French Language & Culture: Score of 3

| C-Humanities | 4 | 2 | FREN 2A & Foreign Language reqmt. |

French Language & Culture: Score of 4 or 5

| C-Humanities | 4 | 2 | FREN 2B & Foreign Language reqmt. |

French Literature

| C-Humanities | 3 | 3 | None |

Geography – Human

| D-Geography | 3 | 3 | GEOG 2 |

German Language & Culture: Score of 3

| C-Humanities | 4 | 2 | GERM 2A & Foreign Language reqmt. |

German Language & Culture: Score of 4 or 5

| C-Humanities | 4 | 2 | GERM 2B & Foreign Language reqmt. |

Government – Comparative

| D-Government | 3 | 3 | None |

Government - U.S. Gov and Politics

| D-Government | 3 | 3 | None - meets US Constitution² |
Credit For Instruction in Non-Collegiate Instruction

Office of the Registrar
Degree Evaluations
Lassen Hall 2000
(916) 278-4862

Sacramento State grants undergraduate degree credit for successful completion of non-collegiate instruction, either military or civilian, appropriate to the baccalaureate degree, which has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The numbers of units allowed are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs.

Credit For Prior Learning

College of Social Sciences and Interdisciplinary Studies
Amador Hall 255
(916) 278-6504

Sacramento State grants up to six units of credit for learning, knowledge, or skills-based experience that has been documented and evaluated.
according to university policy. Students should be aware, however, that policies for earning credit for prior learning vary from university to university in the CSU.

**Transfer Credit From Overseas Institutions**

Credit is granted from recognized overseas institutions. Awarding of advanced standing varies depending on the educational system of the country. Certified copies of transcripts and degrees must be submitted in English translation. Sacramento State students who plan to study abroad through independent programs, CSU International Programs or through Sacramento State partnerships should contact International Programs and Global Engagement for information.

**Nontraditional Credits**

Sacramento State allows the following degree credit, based on evaluation of nontraditional academic experiences and/or examinations to apply toward the baccalaureate degree:

1. Baccalaureate-level course credit certified by the Defense Activities in Nontraditional Education Support (DANTES). The amount of credit is limited to 24 semester units, the limit on the number of extension/correspondence course units that can be applied toward the degree.

2. Standardized examinations designated for system-wide credit by the Chancellor of the California State University. The names of these examinations, the passing scores required, and the number of semester units to be awarded is listed under system wide Credit by Examination. The total amount of examination credit applied to the baccalaureate degree cannot exceed 30 semester units.

3. The Advanced Placement Examinations of the College Entrance Examination Board on which the student receives a score of 3, 4, or 5. Up to six semester units may be awarded for each Advanced Placement Examination passed.

4. Credit for basic training and commissions in the military service. The American Council on Education’s Commission on Education Credit and Credentials recommends the number of units allowed for each branch.

5. Commissions held while in the military service: 12 upper division units.

6. Civilian and military courses and schools recommended for credit by the American Council on Education’s Commission on Education Credit and Credentials.

See Academic Policies (p. 27)/system wide Credit by Examination.

**Additional Degree Credits Allowed**

1. Credit for selected vocational/technical courses applicable to Construction Management and/or Mechanical Engineering Technology programs.

2. Transfer credit from provisionally accredited colleges may be granted upon completion of 24 residence units with a "C" grade point average at Sacramento State. Credits granted would normally be in course areas commonly taught in four-year baccalaureate degree programs. Credit is granted only for courses in which at least "C" grades are earned. No credit will be granted for courses in religion, education, psychology, or philosophy if completed at a sectarian college. Credit may be restricted when the institution is specialized, e.g., offering only one or a small number of related programs. Credit to be used toward the student’s major or minor must receive the recommendation of the appropriate department. Students who have attended institutions that are listed as business schools only may receive credit through challenge examination.

**Limitations on the Transfer of Credit**

Unit limitations apply to specific categories of credit that may be used to meet baccalaureate degree requirements:

1. A maximum of 70 hours transferred from two-year or community Colleges.

2. A maximum of 30 hours of examination credit.

3. A maximum of 24 hours in extension and correspondence course units that can be applied toward the degree.

4. A maximum of 30 hours of any combination of correspondence course units that can be applied toward the degree.

5. A maximum of 24 units in Special Sessions.

**Transfer Grade Policies**

Sacramento State utilizes the following policies in evaluating grades earned in courses accepted for transfer:

1. The grading policy of the regionally accredited institution where credit was earned is honored by accepting at face value all official transcript entries, including those:
   a. reflecting academic forgiveness actions;
   b. reflecting acceptance of grade point remediation for repeated courses; and
   c. regarding “incomplete” grades (e.g., “I”, “IS”, and “IU”).

2. All transfer courses graded Pass/No Pass or Credit/No Credit are computed at neutral value, except in those cases where the specific grading symbol is identified by the source institution as equivalent to a grade less than “C” in which case it will be taken at face value.

3. All transfer course grades or symbols used to designate unsatisfactory, failing, or non-passing work at time of withdrawal such as “UW”, “WU”, or “WF” are evaluated as failing grades “F” unless otherwise defined by the source institution.

**Official Transfer Evaluations**

Office of the University Registrar
Lassen Hall 1000
(916) 278-1000

The Office of the University Registrar will prepare an official transfer credit evaluation summarizing prior college credit and indicating Sacramento State General Education requirements met. Students may access their Transfer Credit Evaluation through their MySacState account.

Questions about the evaluation can be discussed with the Student Services Center, Lassen 1000 or by calling the Help Line at (916) 278-1000.

**Placement Measures for First-Year GE Written Communication and Mathematics/Quantitative Reasoning Courses**

Freshman skills assessment and placement for general education written communication and mathematics/quantitative reasoning shall be based on systemwide skills assessment standards that include the Early Assessment Program/ Smarter Balanced Achievement Levels, ACT
scores and/or SAT scores, high school coursework, high school GPA and math GPA.

Skills assessments are not a condition for admission to the CSU; they are a condition of enrollment.

These skills assessments are designed to inform entering freshmen of placement in appropriate baccalaureate-level courses based on their skills and needs.

First-time freshmen in need of support as determined by the skills assessment will be placed in supported instruction. Supported instruction is designed to assist students in credit bearing courses. Students may also be required to participate in the Supportive Pathways for First-Year Students Program.

The Supportive Pathways for First-Year Students Programs offers pathways and academic and social support that align with each incoming student’s needs. The programs’ goal is to ensure that first time students successfully complete the General Education (GE) written communication (A2) and math/quantitative reasoning (B4) requirements within their first year.

Assessments and Placement for GE Written Communications Has Fulfilled the GE Sub-area A2 English Requirement

The student has met the requirement via completion of one of the following:

Advanced Placement (AP) Test
• 3 or above on AP English Language and Composition
• 3 or above on AP English Literature and Composition

College Transfer Coursework
• Completed approved college course that satisfies CSU GE Area A2 (written communication) with a grade of C- or better

Placement in a GE Sub-area A2 English Course
The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

English CAASPP/EAP Test:
• Standard Exceeded
• Standard Met and completed 12th grade approved year-long English course (CSU ERWC, AP, Weighted Honors English) with grade of C- or better

SAT Evidence-Based Reading and Writing Test:
• 550 or above
• 510 – 540 and completed 12th grade approved year-long English course (CSU ERWC, AP, Weighted Honors English) with grade of C- or better English

ACT Test:
• 22 or higher
• 19-21 and completed 12th grade approved year-long English course (CSU ERWC, AP, Weighted Honors English) with grade of C- or better English

High School Courses and GPA:
• Weighted GPA 3.3 or above
• GPA 3.0 or above and completed approved 12 grade year-long English course (AP, CSU ERWC, Weighted Honors English)
• GPA 3.0 or above and completed Honors English
• GPA 3.0 or above and 5 or more years of high school English

Placement in a Supported GE Sub-area A2 English Course
The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

SAT Evidence-Based Reading and Writing Test:
• 510 – 540 and 4 or more years of high school English

ACT Test:
• 19-21 and 4 or more years of high school English

High School Courses and GPA:
• Weighted GPA 3.0 or above and 4 or more years of high school English

Placement in a Supported GE Sub-area A2 English Course and Participation in the Supportive Pathways for First-Year Students Program Required
Based on multiple measures evaluation, student needs additional academic support including participation in the Supportive Pathways for First-Year Students Program. Visit the Supportive Pathways for First-Year Students Page to learn about the Supportive Pathways for First-Year Students Program.

Assessments and Placement for GE Mathematics/Quantitative Reasoning: Non-Math Intensive Majors (Algebra and Statistics Disciplines, Non-STEM and Undecided Majors)

Has Fulfilled the GE Sub-area B4 Math/Quantitative Reasoning Requirement
The student has met the requirement via completion of one of the following:

Advanced Placement (AP) Test:
• 3 or above on AP Calculus AB
• 3 or above on AP Calculus BC
• 3 or above on AP Statistics
• 3 or above on AP Computer Science Principles

International Baccalaureate (IB) Test:
• 4 or above on Math Higher Level (HL)

College Level Examination Program (CLEP):
• 50 or above on: Calculus, College Algebra, College Algebra-Trigonometry, Pre-Calculus or Trigonometry

College Transfer Coursework:
• Completed math/quantitative reasoning college course with a C- or better that satisfies CSU GE Area B4
Placement in a GE Sub-area B4 Math/Quantitative Reasoning Requirement
The student has met examination standards and/or multiple measures-informed standards via one of the following criteria:

CAASPP/EAP Math Exam:
- Standard Exceeded
- Standard Met and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better
- Standard Met and 4 or more years of high school math or quantitative reasoning

SAT Math Test1:
- 570 or above
- 550 or above on Subject Test in Math Level 1 or 2
- 520 – 560 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

ACT Math Test:
- 23 or above
- 20-22 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better
- SAT score conversion for scores prior to March 2016 (old SAT) (https://collegereadiness.collegeboard.org/sat-scoring-before-march-2016/)

High School Courses and GPA:
- Weighted math GPA 3.0 or above and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better
- Weighted math GPA 3.0 or above and 5 or more years of high school math or quantitative reasoning
- Weighted high school GPA 3.7 or above
- Weighted high school GPA 3.5 or above and 4 or more years of high school math or quantitative reasoning

Placement in a Supported GE Sub-area B4 Math/Quantitative Reasoning Requirement
The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

CAASPP/EAP Math Exam:
- Standard Exceeded
- Standard Met and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better
- Standard Met and 4 or more years of high school math or quantitative reasoning

SAT Math Test1:
- 570 or above
- 550 or above on Subject Test in Math Level 1 or 2
- 520 – 560 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

ACT Math Test:
- 23 or above
- 20-22 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

Placement in a GE Sub-area B4 Math/Quantitative Reasoning Requirement
The student has met examination standards and/or multiple measures-informed standards via one of the following:

Advanced Placement (AP) Test:
- 3 or above on AP Calculus AB
- 3 or above on AP Calculus BC
- 3 or above on AP Statistics
- 3 or above on AP Computer Science Principles

International Baccalaureate (IB) Test:
- 4 or above on Math Higher Level (HL)

College Level Examination Program (CLEP):
- 50 or above on: Calculus, College Algebra, College Algebra-Trigonometry, Pre-Calculus or Trigonometry

College Transfer Coursework:
- Completed math/quantitative reasoning college course with a C- or better that satisfies CSU GE Area B4

Assessments and Placement for GE Mathematics/Quantitative Reasoning: Pre-STEM/STEM and Other Math-Intensive Majors
Has Fulfilled the GE Sub-area B4 Math/Quantitative Reasoning Requirement
The student has met the requirement via completion of one of the following:

Advanced Placement (AP) Test:
- 3 or above on AP Calculus AB
- 3 or above on AP Calculus BC
- 3 or above on AP Statistics
- 3 or above on AP Computer Science Principles

International Baccalaureate (IB) Test:
- 4 or above on Math Higher Level (HL)

Placement in a GE Sub-area B4 Math/Quantitative Reasoning Requirement
The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

CAASPP/EAP Math Exam:
- Standard Exceeded
- Standard Met and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

SAT Math Test1:
- 570 or above
- 550 or above on Subject Test in Math Level 1 or 2
- 520 – 560 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

ACT Math Test:
- 23 or above
- 20-22 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

High School Courses and GPA:
- Weighted math GPA 3.0 or above and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better
- Weighted math GPA 3.0 or above and 5 or more years of high school math or quantitative reasoning
- Weighted high school GPA 3.7 or above

Placement in a Supported GE Sub-area B4 Math/Quantitative Reasoning Requirement
The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

High School GPA:
- Weighted math GPA 3.3 or above
- Weighted high school GPA 3.0 or above

Placement in a Supported GE Sub-area B4 Math/Quantitative Reasoning Requirement and Participation in the Supportive Pathways for First-Year Students Program Required
Based on multiple measures evaluation, student needs additional academic support including participation in the Supportive Pathways for First-Year Students Program. Visit the Supportive Pathways for First-Year Students page to learn about the Supportive Pathways for First-Year Students Program.
Placement in a Supported GE Sub-area B4 Math/ Quantitative Reasoning Requirement
The student has met examination standards and/or multiple measures-informed standards via the criteria below:

High School Math GPA:
- Weighted math GPA 3.3 or above

Placement in a Supported GE Sub-area B4 Math/ Quantitative Reasoning Requirement and Participation in the Supportive Pathways for First-Year Students Program Required
Based on multiple measures evaluation, student needs additional academic support including participation in the Supportive Pathways for First-Year Students Program. Visit the Supportive Pathways for First-Year Students page to learn about the Supportive Pathways for First-Year Students Program.

Supportive Pathways for First-Year Students Program
The goal of the Supportive Pathways for First-Year Students Program (SPFYP) is to:

- Better prepare students in written composition and mathematics/ quantitative reasoning before the fall term of freshman year, improving students’ chances of successful completion of a baccalaureate degree.
- If required to participate in SPFYP, as determined by multiple measures, students will begin in the summer before the start of the freshman year.
- For general information about SPFYP including fees and course listings, visit csustudentsuccess.org/early-start-overview. Students are encouraged to visit the university website for SPFYP information once admitted.
- Eligible financial aid applicants with an Estimated Family Contribution (EFC) of $65,000 or less will be eligible for waiver of the per unit SPFYP fee. For more information on assessments, placements and the Supportive Pathways for First-Year Students Program, please visitwww.csustudentsuccess.org.

Directed Self Placement (DSP)
All first time freshmen must participate in Directed Self-Placement (DSP). For additional information about DSP, please visit the DSP website (https://www.csus.edu/undergraduate-studies/writing-program/directed-self-placement.html).

First-year Composition Course Options:
By engaging in the Directed-Self Placement activities prior to coming to orientation and before enrolling in courses, students will receive a recommendation to help them choose from the options below:

The Semester-Long Program—English 5 or 5M²: Accelerated Academic Literacies, Intensive, semester-long course to help students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth—students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses. 3 units.

The Year-Long “Stretch” Program—English 10/11 or 10M/11M² Academic Literacies I & II: Year-long course to help students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth—students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses. 6 units.

One-Unit Small Group Tutorial— ENGL 1X: Composition Tutorial.
Taken in conjunction with one of the courses above, this composition tutorial offers supplemental instruction in elements of composition and assists students in mastering the writing process with special emphasis on planning and revising essays. Instruction takes place both in traditional classroom setting and in small group and individual tutorials. Students enrolled in this tutorial must also be co-enrolled in a first-year composition course as the focus will be drafting and revising the work done in the primary writing course. 1 unit +5/5M or 10/10M, 11/11M.

1 “M” course instructors are specifically trained to help students with different language backgrounds develop the skills necessary for success in their university reading and writing. “M” courses focus on the experiences and languages that multilingual students bring to the classroom—using them as a resource for learning and refining students’ academic reading and writing.

Additional Course Placement Examination Requirements
Chemistry
Sequoia Hall 156
(916) 278-6684
Students enrolling in Chemistry 1A are required to take a General Chemistry Placement Examination. This examination must be taken in the first laboratory period during the first week of the semester.

Writing Placement for Juniors (WPJ) exam
All students must satisfy the Graduation Writing Assessment Requirement (GWAR) in order to graduate. The Writing Placement for Juniors (WPJ) exam is a prerequisite for all Writing Intensive courses.

For additional information, please visit the GWAR website (https://www.csus.edu/undergraduate-studies/writing-program/) or call the Writing Programs Office in the English Department at (916) 278-6409.

Foreign Language
Mariposa Hall 2051
(916) 278-6333
Sacramento State students who continue their study of a foreign language begun elsewhere must enroll in a course that does not duplicate previous college credits received. A placement test will be given prior to registration or at the first class meeting. If given prior to registration, it will be listed in the Class Schedule. Adjustment of registration, if necessary, will be made in accordance with the results of the placement exam.
Students who have begun the study of any foreign language in high school and who will enroll before taking the placement test may use the following as a guide for their first enrollment:

1A - if the student has less than one year of satisfactory high school study
1B - if the student has one year but less than two years of high school study
1C - if students have completed up to two years of high school study or one year of college French or German or Spanish with failing or unsatisfactory achievement or evaluation; and if students have had an extended interruption of beginning or intermediate formal language study
2A - if the student has two but less than three years of high school study
2B - if the student has three years of high school study

Students who have acquired knowledge of a foreign language without having received high school or college credit should consult with an advisor for placement.

Graduate Admissions
Office of Graduate Studies
River Front Center 215
(916) 278-6470
Office of Graduate Studies Website (http://www.csus.edu/gradstudies/)

California State University, Sacramento is authorized to offer graduate programs culminating in the Doctor of Education, Doctor of Physical Therapy, Master of Arts, Master of Science, Master of Business, Master of Music, Master of Public Policy and Administration, Master of Social Work, and Education Specialist in School Psychology degrees. Sacramento State also offers a joint doctoral program in Public History in cooperation with UC Santa Barbara. In keeping with the objectives of the degrees offered, the University has developed a broad framework of requirements.

Degrees Offered
Master of Arts
Master of Arts programs are designed to provide improvement in professional competence in educational service, competence for self-directed study (research) in areas of specialization, broadening of cultural backgrounds, development of personal and social responsibility, and preparation for community leadership.

Master of Science
Objectives of the Master of Science programs are to increase competence in particular professional areas and to develop ability for independent self-directed study in selected fields. Provisions have been made in the various curricula for individual planning in light of each student’s objectives, previous education, and experience.

Master of Business
The Master of Business curriculum is designed to broaden the participants’ knowledge and understanding of business, to improve their capacity for effective decision-making, and to facilitate their professional growth and development for positions of greater responsibility. The curriculum is intended for individuals who seek careers as professional managers in business and business-oriented government organizations and as community college instructors of business. In addition, the curriculum prepares superior students for entry into doctoral programs in business.

Master of Music
The graduate program leading to the Master of Music degree is designed to provide opportunity for a variety of advanced studies in music. The Master of Music may be earned either with an academic or a performance emphasis. The program will effectively prepare students for continuation into doctoral study. Students may focus their studies in one of three areas: choral and instrumental conducting, composition, or performance.

Master of Public Health
The Master of Public Health (MPH) degree offers an emphasis in Health Promotion, Policy, and Leadership. The program focuses on preparing public health professionals to develop effective strategies for preventing illness and disease within diverse communities; while increasing the student’s capability in conducting health policy analysis and development. The program offers advanced study for public health professionals working (or seeking employment) as public health educators, policy analysts, health advocates, program managers, and public health consultants in community-based organizations, healthcare settings, local-state-federal governments, and other practice settings.

Master of Public Policy and Administration
The Master of Public Policy and Administration curriculum is designed to prepare individuals committed to public service as effective and ethical leaders and advisors, managers and administrators, analysts and advocates. Students develop competence in three areas: management of the organizational context of policy implementation and administration; understanding of the political environment and process of policy making; and the analytic and research tools to plan, design, and evaluate public policy.

Master of Social Work
The curriculum leading to the Master of Social Work degree is designed to enable the student to develop professional competence in working with individuals and groups, participate knowledgeably in the implementation of social welfare policy and administration, understand human growth and development as they affect social and personal functioning, and develop social philosophies, ethics, and values relating to the practice of professional social work.

Master of Arts or Master of Science in Special Major
The special major for either a Master of Arts or a Master of Science degree provides an alternative for those individuals whose special needs and interests cannot adequately be met by any single existing or planned master’s degree program. A suitable interdisciplinary program may be planned for the superior graduate student who meets requirements established for admission to the special major graduate degree program. A student who wishes to undertake such a program should obtain an application to the program from the Office of Graduate Studies.

Ed.S. in School Psychology
The Specialist in Education, School Psychology (Ed.S.) degree can lead to professional degrees in the application of advanced educational theory. Completion of the Ed.S. requires coursework focused on identifying and addressing school-related issues that arise during school psychology practice. The School Psychology program at Sacramento State is
approved as a Specialist level program by the National Association of School Psychologists.

**Ed.D Educational Leadership**

The independent doctoral program in Educational Leadership is offered through the College of Education to help meet the need for leadership in California's schools and community colleges. The program in educational leadership is geared to working professionals. Three key curricular themes are emphasized and provide the focus for all coursework in the program. These themes are:

1. Transformational Leadership,
2. Critical Policy Analysis and Action, and

It will lead to a Doctor of Education awarded by the CSU system.

**Doctor of Audiology**

The Doctor of Audiology (Au.D.) program is a four-year clinical doctorate that is designed to prepare students for professional practice of audiology. The Au.D. program provides coursework in the theoretical foundations of audiology practice and evidence-based practice, as well as varied clinical training experiences in the Sacramento community and surrounding areas. The Maryjane Rees Language, Speech, and Hearing Center, which is located on campus, provides the community with speech, language, and hearing services for children and adults with communication disorders. In addition, the department is located in Folsom Hall, home of the The Center for Health Practice, Policy & Research (CHPPR), giving students opportunities to work alongside and learn from and with other health professions students.

**Doctor of Physical Therapy**

The Doctor of Physical Therapy (DPT) is a three-year program dedicated to graduating professional, evidence-informed physical therapists who have the knowledge and skills to provide patient care in any practice environment. The program's curriculum is designed to provide a foundation in the science and art of physical therapy, one that engages students in clinical reasoning through problem-solving within the context of patient cases, both actual and simulated. In addition, students complete 36 weeks of full-time internships at three locations to learn by doing in their respective practice settings. The program is fully accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE) and graduates are eligible to take the national licensure examination.

**Ph.D. Public History**

The joint doctoral program in Public History offered in cooperation with UC Santa Barbara provides training in public history, particularly in the following professional fields: history of public policy, cultural resource management, business and institutional history, and community and local history. Supporting courses are offered in oral history, archives and records administration, museum management, historical editing, and policy and litigation support.

**Admission Requirements**

The minimum requirements for admission to Master's and Doctoral graduate degree programs and post-baccalaureate studies at a CSU campus are in accordance with University regulations as well as Title 5 chapter 1, subchapter 3 of the California Code of Regulations.

**Master’s and Post-Baccalaureate Program Admissions**

Master's and post-baccalaureate applicants may apply for a degree objective, a credential or certificate objective, or where approved, may have no program objective. Depending on the objective, the CSU will consider an application for admission as follows:

- **General Requirements** — The minimum requirements for admission to master's and post-baccalaureate studies at a California State University campus are in accordance with university regulations as well as Title 5, Chapter 1, Subchapter 3 of the California Code of Regulations.
- **Specifically,** a student shall at the time of enrollment:
  1. Have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate university authorities;
  2. Be in good academic standing at the last college or university attended;
  3. Have earned a grade point average of at least 2.5 on the last degree completed by the candidate or have attained a grade point average of at least 2.5 (A=4.0) in the last 60 semester (90 quarter) units attempted; and
  4. Satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe. In unusual circumstances, a campus may make exceptions to these criteria.

**Doctoral Program Admissions**

Doctor of Audiology applicants may apply for admission, in accordance with University regulations as well as Title 5, Chapter 1 Subchapter 3 of the California Code of Regulations. Specifically, a student shall at the time of enrollment:

1. The applicant holds an acceptable baccalaureate degree earned at an institution accredited by a regional accrediting association or the applicant has completed equivalent academic preparation as determined by the appropriate campus authority.
2. The applicant has an overall cumulative grade point average of at least 3.00 in upper-division baccalaureate study, postbaccalaureate and master’s study combined.
3. The student has completed all campus-required prerequisite coursework.
4. The applicant must have been in good academic standing at the last institution.
5. The applicant has met any additional requirements established by the chancellor in consultation with the faculty and any additional requirements prescribed by the appropriate campus authority.

Doctor of Education applicants may apply for admission, in accordance with University regulations as well as Title 5, Chapter 1 Subchapter 3 of the California Code of Regulations. Specifically, a student shall at the time of enrollment:

1. Have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed
equivalent academic preparation as determined by appropriate campus authorities;
2. Hold an acceptable master’s degree earned at an institution accredited by a regional accrediting association, or have completed equivalent academic preparation as determined by the appropriate campus authority;
3. Have attained a cumulative grade point average of at least 3.0 in upper division and graduate study combined;
4. Have completed the Graduate Record Examination (GRE) with scores from the three subsections of the General Examination;
5. Be in good standing at the last institution of higher education attended;
6. Demonstrated sufficient preparation and experience pertinent to educational leadership to benefit from the program; and
7. Meet any additional requirements established by the Chancellor in consultation with the faculty and any additional requirements prescribed by the appropriate campus authority.

Doctor of Physical Therapy applicants may apply for admission, in accordance with University regulations as well as Title 5, Chapter 1 Subchapter 3 of the California Code of Regulations. At the time of enrollment:

1. The applicant holds an acceptable baccalaureate degree earned at an institution accredited by a regional accrediting association, or the applicant has completed equivalent academic preparation as determined by the appropriate campus authority;
2. The applicant has completed all required prerequisite coursework for the program(s) to which the applicant has applied with a cumulative grade point average of at least 3.0;
3. The applicant must have been in good academic, professional and clinical standing at the last institution and if applicable, in the last entry level physical therapist educational program attended;
4. The applicant has met any additional requirements established by the chancellor in consultation with the faculty and any additional requirements prescribed by the appropriate campus authority. Only those students who continue to demonstrate a satisfactory level or scholastic, professional, and clinical competence shall be eligible to continue in Doctor of Physical Therapy programs.

In unusual circumstances, a campus may make exceptions to these criteria.

THESE AND OTHER CSU ADMISSION REQUIREMENTS ARE SUBJECT TO CHANGE AS POLICIES ARE REVISED AND LAWS ARE AMENDED. THE CSU WEBSITE (http://www.calstate.edu/) AND THE ADMISSION PORTAL (http://www.calstate.edu/apply/) ARE GOOD SOURCES FOR THE MOST UP-TO-DATE INFORMATION.

Graduate Programs Application Procedures
All graduate and post-baccalaureate applicants (e.g., DPT, Ed.D., Ed.S., joint Ph.D. applicants, master’s degree applicants, those seeking educational credentials or certificates, and where permitted, holders of baccalaureate degrees interested in taking courses for personal or professional growth) must file a complete graduate application as described in the graduate and post-baccalaureate admission materials at Cal State Apply (http://www.calstate.edu/apply/). Applicants seeking a second bachelor’s degree must submit the undergraduate application for admission. Applicants who completed undergraduate degree requirements in the preceding term are also required to complete and submit an application and the $70 nonrefundable application fee. To be assured of initial consideration by more than one CSU, it is necessary to submit separate applications (including fees) to each. All CSU applications must be submitted online at Cal State Apply (http://calstate.edu/apply/). An acknowledgement will be sent to the applicant when the online application has been submitted.

The application and fee are not required for students desiring to enroll only in Summer Session, Winter Intersession, or Open University through the College of Continuing Education.

Application Filing Periods

<table>
<thead>
<tr>
<th>Term</th>
<th>Applications First Accepted</th>
<th>Initial Filing Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>October 1</td>
<td>visit: <a href="http://www.csus.edu/graduate-studies/">www.csus.edu/graduate-studies/</a> (<a href="http://www.csus.edu/graduate-studies/">http://www.csus.edu/graduate-studies/</a>)</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>August 1</td>
<td>August 1- September 15</td>
</tr>
<tr>
<td>Summer Semester</td>
<td>(Most universities do not admit students to summer term)</td>
<td></td>
</tr>
</tbody>
</table>

Filing Period Duration

Each non-impacted university accepts applications until capacities are reached. Many universities limit undergraduate admission in an enrollment category due to overall enrollment limits. If applying after the initial filing period, consult the university admission office for current information.

On-time applicants may expect to receive an acknowledgment from the campuses to which they have applied within two to four weeks of filing the application. The notice may also include a request that applicants submit additional records necessary to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates that applicants meet CSU admission requirements, and in the case of admission impaction, supplemental criteria for admission to an impacted program. Unless specific written approval/confirmation is received, an offer of admission is not transferable to another term or to another campus.

Categories of Admission and Classification

Students wishing to pursue a doctoral or master’s degree must be admitted to the specific program under which the student intends to study. At the time of application for admission to the University, the student indicates his or her proposed major and is evaluated against the admission requirements for that program. Students who meet the minimum requirements for graduate and post-baccalaureate studies may be considered for admission in one of the following four categories:

- **Graduate Classified** – To pursue a graduate degree, applicants are required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.
Graduate Conditionally Classified – Persons wishing to enroll in a credential or certificate program will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.

Post-Baccalaureate Classified, e.g., admission to an education credential program – Persons wishing to enroll in a credential or certificate program will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.

Post-Baccalaureate Unclassified – To enroll in undergraduate courses as preparation for advanced degree programs or to enroll in graduate courses for professional or personal growth, applicants must be admitted as post-baccalaureate unclassified students. By meeting the general requirements, applicants are eligible for admission as post-baccalaureate unclassified students. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree or credential program. (Most CSU campuses do not offer admission to unclassified post-baccalaureate students).

Admission of students not wishing to pursue a doctoral or master’s degree is limited. Students admitted as an unclassified graduate student may not use more than six units earned in unclassified status to apply toward a subsequent doctoral or master’s program. Therefore, unclassified students shall seek classification during their first semester’s enrollment if they wish to pursue a graduate degree. Unclassified students are allowed no more than two terms of enrollment.

Returning Post-baccalaureate, Master, Doctoral Students

Former Sacramento State students who have been absent for two or more semesters do not maintain catalog rights, must apply for readmission and a non-refundable application fee is charged. Following a mandatory interruption of one or more semesters, students who have left in a negative academic standing may not be eligible to return until they complete additional coursework. Students who have been academically disqualified or dismissed must in conjunction to applying for readmission must also file an appeal for reinstatement. At the time of readmission, student may be required to satisfy new university and/or program requirements.

Second Bachelor’s Degree

Applicants seeking a second bachelor’s degree should submit the undergraduate application for admission unless specifically requested to do otherwise. Admission is limited to a few select programs for students who have earned a bachelor’s degree from a regionally accredited institution with a GPA of 2.5 or higher in the last 60 semester units of baccalaureate or graduate level courses at Sacramento State. Students admitted in post-baccalaureate standing (unclassified) must meet residence and other specified requirements.

Applicants to an impacted program will be considered in the upper division quota category for admission purposes. Coursework completed in this status forms part of the post-baccalaureate grade point average and will affect the student’s eligibility for classified standing.

Candidates must file for graduation TWO SEMESTERS prior to the date of graduation. Forms are available from the Office of the University Registrar. A second bachelor’s cannot be awarded in the same major or closely related field as the first degree. Only students admitted into the second baccalaureate classification may petition to graduate with a second baccalaureate degree.

International Applicants Requiring an International Student Visa and Domestic Applicants with International Documents

Graduation from a college or university recognized by the Ministry of Education, or appropriate governing agency, with a degree requiring at least 16 years of prior education is required for graduate standing. Typically, this is 12 years of primary and secondary education and 4 years of post-secondary education.

For more information please go to Office of Graduate Studies Applicants with Foreign Documents. (http://www.csus.edu/gradstudies/futurestudents/applicantswithforeigndocuments/)

Graduate and Post-Baccalaureate English Language Requirement

All graduate and post-baccalaureate applicants, regardless of citizenship, whose native language is not English and whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who do not possess a bachelor’s degree from a postsecondary institution where English is the principal language of instruction must receive a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). Some programs require a higher score. Several CSUs may use alternative methods for assessing fluency in English including Pearson Test of English Academic (PTE Academic), the International English Language Testing System (IELTS) and the International Test of English Proficiency (ITEP). Refer to Sacramento State/International Students/TOEFL Requirement (http://www.csus.edu/gradstudies/futurestudents/applicantswithforeigndocuments/languagetesting.html).

Advising

Classified graduate students should confer with their academic departments for requirements, course selection, and appointment of advisors.

Post-baccalaureate students seeking a teaching credential should contact the College of Education Student Service Center, Eureka Hall, Room 216, (916) 278-6403.

International Admissions

International Admissions is located within the International Programs and Global Engagement office.

Library 1001, open 8 am - 5 pm, Monday - Friday

(916)-278-6686

intlinfo@csus.edu

www.csus.edu/international-programs-global-engagement/ (https://www.csus.edu/international-programs-global-engagement/)
The CSU must assess the academic preparation of foreign students. For this purpose, “foreign students” include those who hold U.S. temporary visas as students, exchange visitors, or in other nonimmigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of foreign students. Verification of English proficiency (see the section on the English Language Requirement for undergraduate applicants), financial resources, and academic performance are each an important consideration for admission. Academic records from foreign institutions must be on file by the campus deadline for document submission for the first term and if not in English, must be accompanied by certified English translations.

**English Language Proficiency Requirement**

All international applicants whose native language is not English and whose preparatory and post-secondary education was principally instructed in a language other than English must demonstrate English language proficiency through one of the following standardized tests.

<table>
<thead>
<tr>
<th>Test</th>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOEFL (Test of English as a Foreign Language)</td>
<td>Score of 510 (paper based test)</td>
<td>Score of 550&lt;sup&gt;1&lt;/sup&gt; (paper based test)</td>
</tr>
<tr>
<td>TOEFL</td>
<td>Score of 64 (internet based test)</td>
<td>Score of 80&lt;sup&gt;1&lt;/sup&gt; (internet based)</td>
</tr>
<tr>
<td>IELTS (Academic)</td>
<td>Overall band score of 6.0</td>
<td>Overall band score of 6.5&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>PTE Academic</td>
<td>Score of 50</td>
<td>Score of 65&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

Those who have graduated from an accredited secondary (high school) or four-year U.S. college or university (obtained an undergraduate an/or graduate degree) where English is the primary language of instruction or who come from countries where English is the primary language need not submit an English language proficiency test.<sup>1</sup>

<sup>1</sup> Note: Sacramento State interprets “where English was the principal language of instruction” to mean that a school is located in a country where English is the native language (the daily medium of communication of the majority of residents is English), and that the students receive academic instruction in all subjects (except foreign language courses) at all levels of education in English.

International students graduating from U.S. high schools after three years of attendance will be admitted as freshmen under the same requirements as graduates of California high schools by use of the eligibility index. Those graduating from foreign high schools (or from California high schools after less than three years of attendance) may be admitted if their achievement is equivalent to that of eligible California high school graduates. They also may need to submit an English language proficiency test (TOEFL, IELTS, or Pearson’s) if English is not their native language.

Undergraduate applicants with foreign academic work are required to submit official copies of academic records from their school, college, or university in officially sealed envelopes, along with a certified English translation. Academic records should include:

1. secondary school records;
2. yearly records from each college or university attended, indicating the number of hours per semester or per year devoted to each course and the grades received (only if applying as an international transfer student); and
3. English Language Proficiency exam meeting the undergraduate requirement.

**International Graduate Admission Requirements**

International graduate students requiring F-1 or J-1 visas to study at Sacramento State must file the Cal State Apply online international application (https://www2.calstate.edu/apply/international/) during the posted filing period for respective graduate programs. Graduate programs may require supplemental applications and other supporting documents. Graduation from a recognized college or university with a degree requiring at least 16 years of prior education is required for graduate standing.

At the graduate level, a TOEFL score of 550 (or 80 internet based test) is required for international applicants. The following graduate programs require higher scores:

- Audiology, Au.D
- Electrical & Electronic Engineering
- English
- Public Policy and Administration
- Teaching English to Speakers of Other Languages (TESOL)

Applicants with foreign academic work are required to submit official copies of academic records from their school, college, or university in officially sealed envelopes, along with a certified English translation. Academic records should include:

1. Yearly records from each college or university attended, indicating the number of hours per semester or per year devoted to each course and the grades received;
2. Official documents that confirm awarding of a degree or diploma, with the title and date, if the applicant has already graduated; and,
3. English Language Proficiency exam meeting the graduate requirement.

International Undergraduate Admissions Requirements (https://www.csus.edu/international-programs-global-engagement/application-admissions-process/undergraduate.html)

International students requiring F-1 or J-1 visas to study at Sacramento State must file the Cal State Apply online international application (https://www2.calstate.edu/apply/international/). Applications received during the initial filing period of each undergraduate admission cycle receive priority consideration for admission. Undergraduate international and non-California resident students may not be admitted to some impacted programs.
Additional Information for International Applicants

All official documents submitted become the property of the University. The University will determine acceptability of any foreign coursework towards University degree programs. The U.S. Citizenship and Immigration Services (USCIS) requires F-1 and J-1 foreign visa students to enroll full-time, defined as follows:

• a minimum of 12 semester units for credit for undergraduates
• a minimum of 9 semester units for credit for graduate students.

International students must comply with all University and USCIS regulations, provide evidence of financial resources, and be enrolled in the mandatory CSU system student health insurance.
FINANCIAL AND REGISTRATION INFORMATION

Fees and Refunds (p. 62)
Financial Aid (p. 69)
Registration (p. 75)

Fees and Refunds

Tuition & Registration Fees
The CSU makes every effort to keep student costs to a minimum. Tuition and fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU reserves the right, even after tuition or fees are initially charged or initial payments are made, to increase or modify any listed tuition or fees. All listed fees, other than mandatory systemwide tuition, are subject to change without notice, until the date when instruction for a particular semester or quarter has begun. All CSU-listed tuition and fees should be regarded as estimates that are subject to change upon approval by the Board of Trustees, the chancellor or the presidents, as appropriate. Changes in mandatory systemwide tuition will be made in accordance with the requirements of the Working Families Student Fee Transparency and Accountability Act (Sections 66028 – 66028.6 of the Education Code).

All students are required to pay tuition and registration fees. Additionally, nonresident, foreign-visa and graduate professional business students are required to pay per unit tuition and/or fees. Fees for auditing courses are the same as for those receiving credit for a course. Extensions and/or winter session students, resident or otherwise, pay tuition fees appropriate to the course administered through the College of Continuing Education.

Fees are payable based on the term registration date. Payments may be made by check, cash, money order, Visa, American Express, MasterCard, or Discover credit cards.

*Please note that credit cards/debit card payments must be paid online and will incur a 2.75% convenience fee.

The following reflects applicable system tuition and fees for both semester and quarter universities. *These rates are subject to change.*

Mandatory Resident Tuition Fees and Campus Fees: Fall 2023/Spring 2024

Undergraduates

<table>
<thead>
<tr>
<th></th>
<th>0-6 Units</th>
<th>More than 6 Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fees</td>
<td>$1,665.00</td>
<td>$2,871.00</td>
</tr>
<tr>
<td>Associated Students Inc. Fee</td>
<td>$85.00</td>
<td>$85.00</td>
</tr>
<tr>
<td>Intercollegiate Athletics/Spirit Leaders Fee</td>
<td>$174.00</td>
<td>$174.00</td>
</tr>
<tr>
<td>Transportation Fee</td>
<td>$26.00</td>
<td>$26.00</td>
</tr>
<tr>
<td>Recreational Sports Fee</td>
<td>$18.00</td>
<td>$18.00</td>
</tr>
<tr>
<td>University Union/ WELL Fee</td>
<td>$442.00</td>
<td>$442.00</td>
</tr>
<tr>
<td>Health Facilities Fee</td>
<td>$28.00</td>
<td>$28.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>0-6 Units</th>
<th>More than 6 Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructional Related Activity Fee</td>
<td>$8.00</td>
<td>$8.00</td>
</tr>
<tr>
<td>Student Health and Counseling Services Fee</td>
<td>$146.00</td>
<td>$146.00</td>
</tr>
<tr>
<td>Hornet Newspaper Fee</td>
<td>$3.00</td>
<td>$3.00</td>
</tr>
<tr>
<td>Total</td>
<td>$2,595.00</td>
<td>$3,801.00</td>
</tr>
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</table>

 Credential Program

<table>
<thead>
<tr>
<th></th>
<th>0-6 Units</th>
<th>More than 6 Units</th>
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</thead>
<tbody>
<tr>
<td>Tuition Fees</td>
<td>$1,932.00</td>
<td>$3,330.00</td>
</tr>
<tr>
<td>Associated Students Inc. Fee</td>
<td>$85.00</td>
<td>$85.00</td>
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<tr>
<td>Intercollegiate Athletics/Spirit Leaders Fee</td>
<td>$174.00</td>
<td>$174.00</td>
</tr>
<tr>
<td>Transportation Fee</td>
<td>$26.00</td>
<td>$26.00</td>
</tr>
<tr>
<td>Recreational Sports Fee</td>
<td>$18.00</td>
<td>$18.00</td>
</tr>
<tr>
<td>University Union/ WELL Fee</td>
<td>$442.00</td>
<td>$442.00</td>
</tr>
<tr>
<td>Health Facilities Fee</td>
<td>$28.00</td>
<td>$28.00</td>
</tr>
<tr>
<td>Instructional Related Activity Fee</td>
<td>$8.00</td>
<td>$8.00</td>
</tr>
<tr>
<td>Student Health and Counseling Services Fee</td>
<td>$146.00</td>
<td>$146.00</td>
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<tr>
<td>Hornet Newspaper Fee</td>
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<td>$3.00</td>
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<tr>
<td>Total</td>
<td>$2,862.00</td>
<td>$4,260.00</td>
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</table>

 Post-Baccalaureate

<table>
<thead>
<tr>
<th></th>
<th>0-6 Units</th>
<th>More than 6 Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fees</td>
<td>$2,082.00</td>
<td>$3,588.00</td>
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<td>Associated Students Inc. Fee</td>
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<tr>
<td>Intercollegiate Athletics/Spirit Leaders Fee</td>
<td>$174.00</td>
<td>$174.00</td>
</tr>
<tr>
<td>Transportation Fee</td>
<td>$26.00</td>
<td>$26.00</td>
</tr>
<tr>
<td>Recreational Sports Fee</td>
<td>$18.00</td>
<td>$18.00</td>
</tr>
<tr>
<td>University Union Fee/ WELL Fee</td>
<td>$442.00</td>
<td>$442.00</td>
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<tr>
<td>Health Facilities Fee</td>
<td>$28.00</td>
<td>$28.00</td>
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<tr>
<td>Instructional Related Activity Fee</td>
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<tr>
<td>Student Health and Counseling Services Fee</td>
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<tr>
<td>Hornet Newspaper Fee</td>
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<td>$3.00</td>
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<tr>
<td>Total</td>
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<td>$4,518.00</td>
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</tbody>
</table>

*Post-Baccalaureate classification includes 2nd Bachelors.*

Education Doctorate

<table>
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<tr>
<th></th>
<th>0-21 Units</th>
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<tbody>
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<td>Tuition Fees</td>
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<tr>
<td>Associated Students Inc. Fee</td>
<td>$85.00</td>
</tr>
</tbody>
</table>
### Doctorate of Physical Therapy

<table>
<thead>
<tr>
<th>Fee Type</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fees</td>
<td>$8,598.00</td>
</tr>
<tr>
<td>Associated Students Inc. Fee</td>
<td>$85.00</td>
</tr>
<tr>
<td>Intercollegiate Athletics/Spirit Leaders Fee</td>
<td>$174.00</td>
</tr>
<tr>
<td>Transportation Fee</td>
<td>$26.00</td>
</tr>
<tr>
<td>Recreational Sports Fee</td>
<td>$18.00</td>
</tr>
<tr>
<td>University Union/WELL Fee</td>
<td>$442.00</td>
</tr>
<tr>
<td>Health Facilities Fee</td>
<td>$28.00</td>
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<tr>
<td>Instructional Related Activity Fee</td>
<td>$8.00</td>
</tr>
<tr>
<td>Student Health and Counseling Services Fee</td>
<td>$146.00</td>
</tr>
<tr>
<td>Hornet Newspaper Fee</td>
<td>$3.00</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$9,528.00</strong></td>
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</table>

### Doctorate of Audiology

<table>
<thead>
<tr>
<th>Fee Type</th>
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</thead>
<tbody>
<tr>
<td>Tuition Fees</td>
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<td>Intercollegiate Athletics/Spirit Leaders Fee</td>
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<tr>
<td>Transportation Fee</td>
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<tr>
<td>Recreational Sports Fee</td>
<td>$18.00</td>
</tr>
<tr>
<td>University Union/WELL Fee</td>
<td>$442.00</td>
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<tr>
<td>Health Facilities Fee</td>
<td>$28.00</td>
</tr>
<tr>
<td>Instructional Related Activity Fee</td>
<td>$8.00</td>
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<tr>
<td>Student Health and Counseling Services Fee</td>
<td>$146.00</td>
</tr>
<tr>
<td>Hornet Newspaper Fee</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$8,301.00</strong></td>
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</table>

### Doctorate of Occupation Therapy

<table>
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<tr>
<th>Fee Type</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fees</td>
<td>$8,598.00</td>
</tr>
<tr>
<td>Associated Students Inc. Fee</td>
<td>$86.00</td>
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<td>Intercollegiate Athletics/Spirit Leaders Fee</td>
<td>$174.00</td>
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<td>Transportation Fee</td>
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</tr>
<tr>
<td>Recreational Sports Fee</td>
<td>$18.00</td>
</tr>
<tr>
<td>University Union/WELL Fee</td>
<td>$442.00</td>
</tr>
<tr>
<td>Health Facilities Fee</td>
<td>$28.00</td>
</tr>
<tr>
<td>Instructional Related Activity Fee</td>
<td>$8.00</td>
</tr>
<tr>
<td>Student Health and Counseling Services Fee</td>
<td>$146.00</td>
</tr>
<tr>
<td>Hornet Newspaper Fee</td>
<td>$3.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$8,301.00</strong></td>
</tr>
</tbody>
</table>

### Doctorate of Public Health

<table>
<thead>
<tr>
<th>Fee Type</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Tuition Fees</td>
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<tr>
<td>Associated Students Inc. Fee</td>
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<tr>
<td>Intercollegiate Athletics/Spirit Leaders Fee</td>
<td>$174.00</td>
</tr>
<tr>
<td>Transportation Fee</td>
<td>$26.00</td>
</tr>
<tr>
<td>Recreational Sports Fee</td>
<td>$18.00</td>
</tr>
<tr>
<td>University Union/WELL Fee</td>
<td>$442.00</td>
</tr>
<tr>
<td>Health Facilities Fee</td>
<td>$28.00</td>
</tr>
<tr>
<td>Instructional Related Activity Fee</td>
<td>$8.00</td>
</tr>
<tr>
<td>Student Health and Counseling Services Fee</td>
<td>$146.00</td>
</tr>
<tr>
<td>Hornet Newspaper Fee</td>
<td>$3.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$10,380.00</strong></td>
</tr>
</tbody>
</table>

The tuition fees and campus fees listed are accurate at the time of posting and are subject to change. For more information on the amount of tuition fees and campus fees to pay and your due dates, check your Account Inquiry on your Student Center page at My Sac State.

**PRO-RATED REGISTRATION FEES:** If you withdraw (or are dropped from your classes for not paying) after the first day of the term, you will be responsible to pay* approximately 1% per calendar day from the first day of the term until the day of being dropped or withdrawing, regardless of when you enrolled or when the course began.

**NON-RESIDENT TUITION (U.S. and Foreign):** $396.00 per unit plus appropriate registration tuition fees and campus fees listed above.

**GRADUATE PROFESSIONAL BUSINESS FEES:** $270.00 per unit plus appropriate tuition fees and campus fees and non-resident tuition (if applicable).

* pro-rated registration fee/ This amount can be estimated as

### Definition of Mandatory Campus Fees

**Tuition Fee** - Fee established to augment the budget for Instructional Services.

**Associated Students Inc. Fee** - To provide for non-instructional activities and programs which are designed to benefit all students and to maintain the student’s well-being. Associated Students, Inc. programs include PEAK Adventures, Aquatic Center, Child Care Center, Student Life and Services (Community programs, KSSU Radio Station, SAFE Rides, and Green Sting), ASI Business Office, ASI Government Office, and Office of Governmental Affairs.

**Intercollegiate Athletics/Spirit Leaders Fee** - To provide support for Intercollegiate Athletics and Spirit Leaders. Includes support for scholarships, travel, coaches, and other support for athletic teams.

**Transportation Fee** - To provide support for alternative transportation for students including free ridership on Sacramento Regional Transit and its affiliates.
Recreational Sports Fee - To provide support to Recreational Sports Programs. This includes Sports Clubs and Intramural Programs.

University Union/WELL Fee - To provide support for the University Union building, The WELL, and all programs associated with the function of those facilities.

Health Facilities Fee - To provide payment for the bond on the Student Health Center.

Instructional Related Activities Fee - These funds are to provide support for essential educational experiences and activities that aid and supplement the fundamental educational mission of the University. For example, laboratory experiences which are at least partially sponsored by an academic discipline or department and which are, in the judgment of the IRA Committee and the President, integrally related to its formal instructional offerings. Activities which are considered to be essential to the quality of an educational program and an important instructional experience for any student enrolled in the respective program may be considered instructional related.

Student Health & Counseling Services Fee - To provide basic health services to students at the Health Center. Basic care is the treatment of common illnesses or injuries.

Hornet Newspaper Fee - To provide support for the State Hornet Newspaper. This includes free copies of the student newspaper to students, printing costs and web based services.

Additional Fees Charged to Student Account
Online Safety Training Fee As part of joining the Sacramento State community, ALL incoming students are required to complete an online sexual violence prevention training. Undergraduate students are also required to complete training in alcohol abuse prevention. To complete the required tutorials, use your SacLink account information to log on to https://studentsuccess.org/students/csus. You will be charged a one-time fee ($10.00 for undergraduates; $5.00 for graduate and CCE students), which is part of the regular tuition fee process to cover the cost of the tutorials. For more information please visit Student Health and Counseling.

Student Representation Fee (SRF) This $2 contribution ensures that CSU students have a say on tuition, financial aid, student services, course availability, and academic advising.

DUE DATE: Your due date will be based on when you register for your FIRST class.

• Continuing students registering in the initial registration period will have fees due mid-June for the Fall term, and early January for the Spring term.
• New transfer students will have fees due mid-July for the Fall term, and mid-January for the Spring term in their first semester.
• New freshmen will have fees due mid-August for the Fall term, and mid-January for the Spring term in their first semester.
• Those registering during late registration will have fees due the Friday before the first day of instruction.
• Those registering in the first two weeks of instruction will have fees due by the end of the second week.
• Those registering in the third and fourth weeks should plan to prepay before registering.

• If you will be signing up for the Installment Payment Plan (IPP), your down payment will be due by your original due date.

BILLING: The University does not send out paper billing statements in the mail.

• Due dates and amounts will be visible on the student account 24-48 hours after registering.
• Log in to the Student Center at My Sac State and choose the Account Inquiry link.

PAYMENT METHODS:

• Credit Cards: Visa, MasterCard, American Express, and Discover credit cards may be used for payment of student tuition and fees but will be subject to a non-refundable 2.75% credit card processing fee. Credit/Debit cards are NOT accepted for payment of Registration Fees in-person.
• Electronic Check: Using a checking account number and routing number (eCheck) and is subject to a $5.00 flat fee.
• In-Person: Cash, check, money orders, OneCard and credit card checks are accepted for payment of registration fees. Please make these payable to “CSUS”.
• Mail: Checks need to arrive at the Bursar’s Office by the due date, as we cannot accept by the postmarked dates. Checks should be made payable to “CSUS” and mailed to: Sacramento State, Bursar’s Office, 6000 J Street, MS 6052, Sacramento, CA, 95819

For more information about Payment Methods, please visit the Bursar’s Office website (http://www.csus.edu/bursar/fees_deadlines_refunds.html#PAYMENT).

Summer Term
Summer Term is administered by the College of Continuing Education for all programs except the Education Doctorate Program and Doctorate of Physical Therapy. Please contact the College of Continuing Education for more information: (916) 278-4433.

Installment Payment Plans

1. Tuition Fees Installment Payment Plan
• The tuition fees installment plan allows tuition fees and mandatory campus fees to be paid in four installments. The down payment is due on your original due date and represents the campus fees (Instructional Related Activities, Associated Students Inc. Programs, Intercollegiate Athletics/Spirit Leaders, Recreational Sports, Transportation, Health Facilities, University Union/WELL, Student Health and Counseling Services, and Hornet Newspaper Fee) and a one-time $33.00 non-refundable finance charge.
• The balance of tuition fees are due in three installments – September, October, and November in the Fall; and February, March, and April in the Spring.
• You may not use the IPP if you have a fee waiver or a third-party sponsor. However, you may request a payment plan for the balance of your fees from the Bursar’s Office.
• If you have registered late, you may owe as much as the first two payments to avoid being dropped from your classes.
• Late installment payments will incur a fee of $15 each time you are late.
• Missed payments (or rejected checks) may result in: being dropped from your classes, forfeiture of your down payment, a
hold preventing your use of the Installment Payment Plans for all subsequent semesters, and a hold on your records.

- If you are dropped from your classes, you may still be required to pay a pro-rated portion of your registration fees.

- If you re-enroll in the same term you may be charged a $100 re-enrollment fee, a $25 late registration fee and a $15 late payment fee. Re-enrollment eligibility after the term begins may be subject to instructor approval, and require payment of tuition fees IN FULL with guaranteed funds (cash, cashier’s check or money order), prior to being added back into your courses.

- Failure to pay may result in additional collection costs, including those associated with referral to a third-party collection agency.

- Follow the 4-step process below to enroll in the Installment Payment Plan (or view the step-by-step tutorial here IPP Tutorial [http://www.csus.edu/sfsc/gallery/Album1/]):
  i. Log on to the Student Center through your MySacState at www.my.csus.edu ([http://www.my.csus.edu](http://www.my.csus.edu)).
  ii. Scroll down to the Finances Section and click on the drop down menu arrow.
  iii. Select the Payment Plan option.
  iv. Follow the on-screen instructions to be put on the plan

<table>
<thead>
<tr>
<th>Undergraduates</th>
<th>6 or Less Units</th>
<th>6.1 or More Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Down Payment (Campus Fees + IPP fee)</td>
<td>$858.00</td>
<td>$858.00</td>
</tr>
<tr>
<td>2nd Installment</td>
<td>$555.00</td>
<td>$957.00</td>
</tr>
<tr>
<td>3rd Installment</td>
<td>$555.00</td>
<td>$957.00</td>
</tr>
<tr>
<td>4th Installment</td>
<td>$555.00</td>
<td>$957.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credential Program</th>
<th>6 or Less Units</th>
<th>6.1 or More Units</th>
</tr>
</thead>
<tbody>
<tr>
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<td>$858.00</td>
<td>$858.00</td>
</tr>
<tr>
<td>2nd Installment</td>
<td>$644.00</td>
<td>$1,110.00</td>
</tr>
<tr>
<td>3rd Installment</td>
<td>$644.00</td>
<td>$1,110.00</td>
</tr>
<tr>
<td>4th Installment</td>
<td>$644.00</td>
<td>$1,110.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Post-Baccalaureate</th>
<th>6 or Less Units</th>
<th>6.1 or More Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Down Payment (Campus Fees + IPP fee)</td>
<td>$858.00</td>
<td>$858.00</td>
</tr>
<tr>
<td>2nd Installment</td>
<td>$694.00</td>
<td>$1,196.00</td>
</tr>
<tr>
<td>3rd Installment</td>
<td>$694.00</td>
<td>$1,196.00</td>
</tr>
<tr>
<td>4th Installment</td>
<td>$694.00</td>
<td>$1,196.00</td>
</tr>
</tbody>
</table>

1 Post-Baccalaureate classification includes 2nd Bachelors.

<table>
<thead>
<tr>
<th>Education Doctorate</th>
<th>6 or Less Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Down Payment (Campus Fees $858.00 + IPP fee)</td>
<td>$858.00</td>
</tr>
<tr>
<td>2nd Installment</td>
<td>$1,973.00</td>
</tr>
</tbody>
</table>

2. Non-resident Tuition Installment Payment Plan

- If you are a domestic non-resident or International student, you are eligible for this plan (unless you have previously defaulted). The education code allows a non-resident student to pay the required non-resident tuition on an installment basis; limited to three equal installment payments. A 15% non-refundable administrative fee will be assessed on the total non-resident amount. You are responsible for the due dates of the installment plan as stated on your contract. You will not receive paper bills in the mail.

- Non-resident students who wish to use the tuition installment plan MUST go to Bursar’s Office in Lassen Hall 1001 to sign an agreement. At that time you will be required to pay registration fees. Non-resident students may use both the Tuition Installment Payment Plan, and the Non-resident Tuition Installment Payment Plans.

- A $15.00 late fee will be assessed for each late payment.

Note: Installment Payment Plans are available for the Fall and Spring semesters only.

**Other Fees and Charges - Cal State Apply**

<table>
<thead>
<tr>
<th>Application Fee</th>
<th>$70.00</th>
</tr>
</thead>
</table>

This non-refundable fee is payable upon application for admission or readmission by all new students or students returning after an absence of two or more semesters online via credit card, e-check, or PayPal.

**Parking**

Parking permit information can be found online at www.csus.edu/utaps (http://www.csus.edu/utaps/) or at the University Transportation & Parking Services (UTAPS) office located in the Welcome Center.

A license plate is required for all permit purchases. A permit does not guarantee the holder a parking space in any given area at any given time. Parking on campus indicates acceptance of Sacramento State parking regulations.

**Semester Permits**

All students, staff, and faculty are eligible to purchase a semester parking permit. Parking permits can be purchased at the University Transportation & Parking Services (UTAPS) office located in the Welcome Center or online at https://sacstate.t2hosted.com/cmn/auth_ext.aspx

**Student Permit Amounts**

Please refer to the Parking Services Website for up-to-date Permit prices and information: https://www.csus.edu/parking-transportation/parking/permit-pricing.html
**Residence Hall Student Permits & Carpool Permits**

Residence Hall permits can be purchased at the University Transportation & Parking Services (UTAPS) office located in the Welcome Center or online at [https://sacstate.t2hosted.com/cmn/auth_ext.aspx](https://sacstate.t2hosted.com/cmn/auth_ext.aspx).

Contact UTAPS for availability and release date of Residence Hall permits, (916) 278-7275.

**Weekly and Daily Permits**

Weekly parking permits are available for purchase by showing a valid Sacramento State OneCard at University Transportation & Parking Services (UTAPS) office located in the Welcome Center or online at [https://sacstate.t2hosted.com/cmn/auth_ext.aspx](https://sacstate.t2hosted.com/cmn/auth_ext.aspx).

Daily parking permits are available from a daily parking permit machine or through PaybyPhone using location code "5115".

*Temporary permits are non-refundable.*

**More Information**

Go to [www.csus.edu/utaps](http://www.csus.edu/utaps/) for more information on parking and transportation options.

Alternative transportation options can be found at [https://www.csus.edu/parking-transportation/alternative-transportation/](https://www.csus.edu/parking-transportation/alternative-transportation/)

**Other Fees**

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus Services I.D./OneCard (Initial or Replacement)</td>
<td>$15.00</td>
</tr>
<tr>
<td>Late Payment Fee - when payments are not made by their due dates.</td>
<td>$15.00</td>
</tr>
<tr>
<td>Checks and Credit Card Charges returned for any cause</td>
<td>$20.00</td>
</tr>
</tbody>
</table>

In the event a check or credit card payment for registration fee is returned, the total penalty fee is $45 ($20.00 returned check or credit card fee and a $25 late registration fee if applicable). **If not cleared within 7 days from notice, student will be subject to cancellation without further notice.**

Liability - if we pursue collection, you could be liable for three times the amount of the check, up to $1,500 - plus the face value of the check and court costs (per California Civil Code, Chapter 522, Section 1719).

Stop Payment on a check or credit card payment of registration fees is not acceptable as notice of withdrawal from classes. "Stop Payment" checks or credit cards returned to the University will be pursued through legal collection procedures, and the student will be responsible for all collection costs.

Bad Checks - persons having more than one check returned to the University from the bank will not have any checks accepted for their duration at Sacramento State. This includes checks written by another party on the individual’s behalf. These persons are required to make payment by cash, money order, cashier’s check, credit or debit card only.

**Late Registration Fee** - This fee applies to those registering during the late registration period. This also applies to those who have been cancelled and are re-registering during this period. $25.00

**Late Add Fee** - This fee applies to those who have been cancelled and are reenrolling for the same term as of the 1st day of instruction or later. $10.00

**Transcript of record fee** $8.00

**Transcript RUSH fee (in addition to regular fee)** $15.00

**All file document request** $15.00

**Re-enrollment** - This fee applies to those who have been cancelled and are reenrolling for the same term as of the 1st day of instruction or later. $100.00

**Writing Placement for Juniors fee** $25.00

**Writing Placement for Graduates fee** $20.00

**Course Fees** - Campus departments may add additional course fees to your account. Most of these fees are added at the time of registration or shortly thereafter. These departments are, but not limited to: Art, Biology, Chemistry, Geology, Kinesiology, Music, Nursing, Theatre Arts, and Writing Placement for Juniors fee.

**Library Book Fees**

1. Once an item becomes 45 days overdue, a $90 lost item replacement fee is assessed. The fee is credited when the item is returned.

2. Course Reserves: Items one (1) day overdue are assessed a $90 lost item replacement fee. Fee will only be credited when the item is returned.

**Replacement of equipment** Cost of item lost or broken

**Graduation and Thesis Fees**

- Graduation and Diploma fee for degree candidate $63.50
- Graduation Date Change Fee $28.00
- Rush/Expedited Fee $15.00
- Replacement Diploma $20.00
- Diploma Cover $20.00

**Caps and Gowns (sold by the ASI Student Store)**

- Baccalaureate Degree $35.00
- Master’s Degree $57.50

**Student Accident and Sickness Insurance (per year)**

Rates vary yearly. Please contact the Associated Students, Inc. Business Office at (916) 278-7782.

**Note:** Required of all students on A, F, or J visas unless adequate health coverage from some other source is demonstrated to the Office of Global Education.

**Thesis/Project microfilming and binding fee** $60.00

**Note:** This is not a complete listing of all fees that may be charged by the University. The fees listed were the most accurate available as of this
posting and are subject to change. Courses that require student use of special materials or services may be charged a course fee.

Refund Regulations

Bursars’s Office
Lassen Hall 1003
(916) 278-6736

Refund of Tuition and Mandatory Registration Fees, Including Nonresident Tuition

Regulations governing the refund of tuition and mandatory fees, including nonresident tuition, for students enrolling at the California State University (CSU) are included in Section 41802 of Title 5, California Code of Regulations. For purposes of the refund policy, mandatory fees are defined as those systemwide and campus fees that are required to be paid in order to enroll in state-supported academic programs at the CSU. Refunds of fees and tuition charges for self-support, special session and extended education Professional and Continuing Education (PaCE) programs or courses at the CSU are governed by a separate policy established by the university, available on the Bursar’s Office website (http://csus.edu/aba/bursars-office/fees_deadlines_refunds.html).

In order to receive a full refund of tuition and mandatory fees, including nonresident tuition, less an administrative charge established by the university, a student must cancel registration or drop all courses prior to the first day of instruction for the term. Information on procedures and deadlines for canceling registration and dropping classes is available on the Bursar’s Office website (http://csus.edu/aba/bursars-office/fees_deadlines_refunds.html).

For state-supported semesters, quarters and non-standard terms or courses of four weeks or more, a student who withdraws during the term in accordance with the university’s established procedures or drops all courses prior to the university-designated drop period will receive a refund of tuition and mandatory fees, including nonresident tuition, based on the portion of the term during which the student was enrolled. No student withdrawing after the 60 percent point in the term will be entitled to a refund of any mandatory fees or nonresident tuition.

A student who, within the university designated drop period and in accordance with university procedures, drops units resulting in a lower tuition and/or mandatory fee obligation shall be entitled to a refund of applicable tuition and mandatory fees less an administrative charge established by the university.

For state-supported non-standard terms or courses of less than four weeks, no refunds of tuition and mandatory fees, including nonresident tuition, will be made unless a student cancels registration or drops all classes, in accordance with the university’s established procedures and deadlines, prior to the first day of instruction for state-supported non-standard terms or courses or prior to the first meeting for courses of less than four weeks.

Students will also receive a refund of tuition and mandatory fees, including nonresident tuition, under the following circumstances:

- The tuition and fees were assessed or collected in error;
- The course for which the tuition and fees were assessed or collected was canceled by the university;
- The university makes a delayed decision that the student was not eligible to enroll in the term for which tuition and mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student; or
- The student was activated for compulsory military service.

Students who are not entitled to a refund as described above may petition the university for a refund demonstrating exceptional circumstances and the chief financial officer of the university or designee may authorize a refund if they determine that the fees and tuition were not earned by the university.

Information concerning any aspect of the refund of fees may be obtained from:

Elena Larson, Bursar
Student Account Services
6000 J Street, Lassen Hall 1003
Sacramento, CA 95819
Phone (916) 278-1000, option 3

Refunds

The Application Fee, Installment Fee, Reenrollment Fee, and Late Registration Fee are NOT refundable.

Refunds will first be applied to any outstanding debt owed to the University. Refunds of checks, echecks, or debit payment will be subject to a waiting period of 10 business days. International payments will be subject to a waiting period of 20 business days. Students who OFFICIALLY withdraw or drop units within the published deadlines do not need to complete an Application for Refund for resident and non-resident fees as refunds will automatically be issued.

Students who believe they have extenuating circumstances that warrant a refund after the published deadlines must submit a Refund Application with a complete explanation of the circumstances and any supporting documentation to the Bursar’s Office.

Withdrawing from all classes

Students who officially withdraw from the University prior to the first day of instruction will receive a 100% refund of Graduate Business Professional fees, tuition fees, campus fees, and non-resident tuition (minus a $10 processing fee). After this date students are eligible to receive a pro-rated refund only if withdrawing from all classes. If registration fees have not been paid in full at the time of withdrawal, the balance due will be pro-rated.

Beginning with the first day of instruction through the 60% date of the semester, refunds will be on a pro-rata basis using the official withdrawal date. Students are not eligible to receive a refund for withdrawing after the 60% date. The pro-rata refund will be calculated by the number of CALENDAR days from the first day of the semester to the date of withdrawal, regardless of when a student enrolled or when the course began.

To officially withdraw you must complete and file a Withdrawal form https://www.csus.edu/student-affairs CENTERS/programs/student-services-center/forms.html

Drop in Units

Students who drop from full to half time by the end of the second week of the semester are eligible to receive a 100% refund of the difference in tuition fees, minus a $10 processing fee. Non-resident students who drop units by the end of the second week of the semester are eligible to receive a 100% refund of the difference of non-resident tuition minus a $10.00 processing fee. Resident and Non-resident students who drop
from full to half-time after these dates are not eligible to receive a refund. It is the student's responsibility to become familiar with policies and procedures concerning add/drop and refund deadlines.

Resident students who drop units from full-time to half-time and non-resident students who drop units by the campus add/drop deadline will receive a refund of the difference in tuition fees and/or applicable non-resident tuition. Please note that the processing of drop-in-unit refunds will not begin until after the first two weeks of the term. If you received financial aid (including loans), your refund will not be considered until after the first four weeks of the term.

**Non-Credit/CEU Refund**

Extension course tuition refund applications must be submitted to the University’s College of Continuing Education prior to the first meeting of the class for a full refund, less a $10 processing fee. If a student withdraws on or after the first class session, the following applies:

<table>
<thead>
<tr>
<th>Meetings</th>
<th>Full Refund</th>
<th>65% Refund Less Than $10</th>
<th>No Refund Less Than $10</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 or more</td>
<td>Prior to 1st class</td>
<td>Before 3rd class</td>
<td>After 3rd class</td>
</tr>
<tr>
<td>5-8</td>
<td>Prior to 1st class</td>
<td>Before 2nd class</td>
<td>After 2nd class</td>
</tr>
<tr>
<td>4 or less</td>
<td>Prior to 1st class</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Special Session Academic Credit Refund**

A $10 processing fee is charged on all Special Session tuition refunds. Refund applications must be submitted to the University’s College of Continuing Education prior to the first meeting of the class for a full refund. If a student withdraws on or after the first class session, the following applies:

- Obtaining approval to drop a class does not grant you an automatic refund of course fees.
- Refunds are still issued per your program's refund policy. Generally, refunds are allowed according to the following timeline:
  - If you drop before the class starts, you will get a full refund minus a $10 processing fee.
  - If you drop any time within the first 25% of the course, including the first day of class, you will get a 65% refund minus a $10 processing fee. If you have not paid for your course yet, you will still owe the other 35% of your tuition. This fee will remain due on your account.
  - If you drop after the first 25% of the course has elapsed, you will not receive a refund. If you have not paid for your course, all fees will remain due on your account.
- If you dropped after the full or partial refund deadline and would like to request a refund, please contact your program coordinator.

- Not attending or not logging into your class does not remove your responsibility to pay your course fees if you are still officially enrolled.

**Parking Refunds**

Parking fee refund applications will be honored only if the student returns the parking permit with the refund application. The amount of parking fee refund will be determined by the following schedule:

<table>
<thead>
<tr>
<th>Time Limit</th>
<th>Amount of Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before first day of class</td>
<td>100% of fee</td>
</tr>
<tr>
<td>1-30 calendar days</td>
<td>75% of fee</td>
</tr>
<tr>
<td>31-60 calendar days</td>
<td>50% of fee</td>
</tr>
<tr>
<td>61-90 calendar days</td>
<td>25% of fee</td>
</tr>
<tr>
<td>None thereafter</td>
<td>None</td>
</tr>
</tbody>
</table>

**Financial Aid Refunds/Return of Title IV**

A student who receives aid and withdraws, drops units, is expelled, etc., during or after the first day of enrollment will be reviewed in accordance with the Federal Return of Title IV Funds Policy. Federal regulations require the Financial Aid & Scholarships Office to calculate a Return of Title IV Funds for students who withdraw during the semester. The policy applies to students who cease enrollment in all classes, on or after the first day of the semester. The institution is required to determine the earned and unearned portions of Title IV aid as of the date the student ceased attendance based on the amount of time the student spent in attendance. Any aid received in excess of the earned amount is considered unearned. The unearned amount is then returned to the federal aid programs it was disbursed from in the order determined by the U.S. Department of Education. The earned portion is calculated on a daily basis using calendar days from the first day of instruction.

Additionally, any State grant funds received may be subject to the same earned and unearned calculation.

Students are required to “officially” withdraw from the University. Students needing to withdraw, begin the process by filling out the University Withdrawal form https://www.csus.edu/student-affairs/centers-programs/student-services-center/forms.html (https://www.csus.edu/student-affairs/centers-programs/student-services-center/forms.html)

A repayment situation may occur when a student receives aid and ceases attendance. The Federal Formula will determine if the disbursement was greater than the student's expenses up to the withdrawal date. The student must repay any excess amount.

To review Return of Title IV Funds Policy visit https://www.csus.edu/apply/financial-aid-scholarships/

**Fees and Debts Owed to the Institution**

Should a student or former student fail to pay a fee or a debt owed to the institution, including tuition and student charges, the institution may "withhold permission to register, to use facilities for which a fee
is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt until the debt is paid (see Title 5, California Code of Regulations, Sections 42380 and 42381).

Prospective students who register for courses offered by the university are obligated for the payment of charges and fees associated with registration for those courses. Failure to cancel registration in any course for an academic term prior to the first day of the academic term gives rise to an obligation to pay student charges and fees including any tuition for the reservation of space in the course.

The institution may withhold permission to register or other services offered by the institution from anyone owing fees or another debt to the institution. The institution may also report the debt to a credit bureau, offset the amount due against any future state tax refunds due the student, refer the debt to an outside collection agency and/or charge the student actual and reasonable collection costs, including reasonable attorney fees if litigation is necessary, in collecting any amount not paid when due.

The institution may not withhold an official transcript of grades by the institution from anyone owing fees or another debt to the institution (see Title 1.6C.7 (commencing with Section 1788.90) Part 4 of Division 3 of the Civil Code). The institution can still charge a fee for the issuance of the transcript pursuant to their published transcript processing fees.

If a person believes he or she does not owe all or part of an asserted unpaid obligation, that person may contact:

Elena Larson, Bursar
Bursar’s Office, 6000 J Street
Lassen Hall 1003
Sacramento, CA 95819
Phone (916) 278-6736

The Bursar’s Office, or another office on campus to which the Bursar’s Office may refer the person, will review all pertinent information provided by the person and available to the campus and will advise the person of its conclusions.

Cancellation of Registration, Dropping Units or Withdrawal from the Institution

Students who find it necessary to cancel their registration or to withdraw from all classes after enrolling for any academic term are required to follow the University’s official withdrawal procedures. Failure to follow formal University procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available from the Office of the Registrar at (916) 278-8088.

Students who receive financial aid funds must consult with the Financial Aid Office prior to withdrawing from the university regarding any required return or repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial aid and withdraw from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution.

Financial Aid

Financial Aid Office
Services offered at the Student Service Center
Lassen Hall, Room 1000
(916) 278-1000, option 2
Financial Aid Website (https://www.csus.edu/apply/financial-aid-scholarships/)

Although the primary responsibility for financing an education rests with the student and the student’s immediate family, the Financial Aid & Scholarships Office helps students and their families search for, apply, receive and maintain eligibility for various types of financial aid to help meet the cost of attending Sacramento State. All students are encouraged each year to file the Free Application for Federal Student Aid (FAFSA) or the California Dream Act Application (CADAA) prior to the March 2nd state priority filing date.

Types of financial aid may include scholarships, federal and state grants, federal work study, student loans and in some cases parent loans. Eligibility for financial aid is based on the Cost of Attendance (COA) minus the Estimated Family Contribution (EFC) determined by the information reported on the Free Application for Federal Student Aid (FAFSA) or the California Dream Act Application (CADAA). For more information on the types of financial aid available please refer to our website (http://www.csus.edu/faid/).

Financial aid services are offered at the Student Service Center (https://www.csus.edu/student-affairs/centers-programs/student-services-center/) located in Lassen Hall, Room 1000, by phone (916) 278-1000, option 2, or via email at sacstatessc@csus.edu.

Application Process

All students are encouraged to complete the Free Application for Federal Student Aid (FAFSA) or the California Dream Act Application (CADAA) before the March 2nd priority filing deadline each year. A student only needs to complete one financial aid application based on the eligibility criteria outlined here:

- U.S. citizens or eligible non-citizens will need to complete the online FAFSA application (https://studentaid.gov/h/apply-for-aid/fafsa/).
- Students who have an unofficial immigration status and meet the California AB540 eligibility criteria will need to complete the California Dream Act application (https://dream.csac.ca.gov).

This single application will determine the student’s need for all federal and state financial aid programs available at Sacramento State. Financial aid documents requested by the Financial Aid & Scholarships Office, must be submitted by May 1st each year to ensure financial aid funds are ready at the beginning of the Fall semester.

Students must reapply for financial aid each year. The new application is available after October 1st for the following academic school year.

When filing the financial aid application, answer all questions accurately. Information reported on the application may need to be verified by the Financial Aid & Scholarships Office; if so, students will be informed through their student portal and provided a link for the required documentation. Once all documents have been received allow between 4 to 6 weeks for the Financial Aid office to review students file and determine award eligibility. Students are encouraged to monitor their MySacState Student Center frequently for all communications.
Student Eligibility Requirements for US Citizens and Eligible Non-Citizens who Filed a FAFSA
To be eligible for financial assistance each applicant must:

1. be accepted for admission to the University;
2. be U.S. citizen or eligible non-citizen;
3. not be in default on a federal student loan;
4. not owe a repayment on a federal grant;
5. agree to use any student aid received solely for educational purposes;
6. be making satisfactory academic progress toward a degree (see Satisfactory Academic Progress); and
7. satisfy other general eligibility criteria established by the federal, state, or institutional regulations and guidelines.

These factors are reviewed at the time of application for financial aid. Before a financial aid disbursement (payment) is made, the student’s enrollment status and academic progress will be reviewed. Financial aid awards will first apply to any outstanding institutional charges.

Student Eligibility Requirements for AB540 Students with an Unofficial Immigration Status who Filed a California Dream Act Application
To be eligible for financial assistance each applicant must:

1. be accepted for admission to the University;
2. be a AB540 eligible student with an unofficial immigration status;
3. not be in default on a student loan;
4. not owe a repayment on a grant;
5. agree to use any student aid received solely for educational purposes;
6. be making satisfactory academic progress toward a degree (see Satisfactory Academic Progress); and
7. satisfy other general eligibility criteria established by the federal, state, or institutional regulations and guidelines.

The above student eligibility factors are reviewed at the time of application for financial aid. Before a financial aid disbursement (payment) is made, the student’s enrollment status and academic progress will be reviewed and verified. Financial aid awards will first apply to any outstanding institutional charges.

Priority Dates

- March 2nd is the priority filing date for the FAFSA and the CADAA application. There is limited funding available for many of the need-based grants, therefore aid is awarded on a first come basis to eligible students who meet the priority filing date and have the greatest need.
- March 2nd is also the deadline to file the GPA verification form to the California Student Aid Commission (CSAC) for the Cal Grant programs.
- Students whose financial aid applications are received by the processor after March 2nd are considered late filers and aid eligibility is based upon remaining fund availability.

Documents Required
A set of federal and state defined criteria is used to determine if additional documentation is needed in support of data reported on the financial aid application (FAFSA or the CADAA). This process is referred to as verification. Applicants selected for verification will be notified by email and asked to provide additional documentation. A student will need to frequently monitor their MySacState Student Center for outstanding items on their "To Do List". To ensure timely disbursement of funding for Fall, we require all requested documents must be submitted prior to the May 1st deadline.

Awarding Financial Aid
Eligibility for financial aid is determined by subtracting the estimated family contribution (EFC) amount the student and family can contribute toward the cost of attending Sacramento State. The EFC is determined based on the information provided on the financial aid application.

Financial aid is awarded based on full-time enrollment. Some awards, however, may be prorated for students attending less than full-time. Refer to the Award Notice Guide (https://www.csus.edu/apply/financial-aid-scholarships/apply-for-aid/) for more details.

Grants
Federal Pell Grant is available to eligible undergraduates and students pursing their first non-degree teaching credential. Students are eligible to receive a Pell Grant for up to 12 (full-time) semesters regardless of school attended.

Federal Supplemental Education Opportunity Grants (FSEOG) is available to eligible undergraduate students with extreme financial need. Funding is limited. To receive a FSEOG, a student must also be receiving the Federal Pell Grant.

Teacher Education Assistance for College and Higher Education (TEACH) Grant is available for students who filed a FAFSA and currently completing coursework necessary to begin a career in teaching. Students must sign an Agreement To Serve/promise to repay and teach full-time for at least four years within eight years of completing the program as a highly qualified teacher, at a Title 1 school, in a specified subject area. If the service is not met, the grant must be repaid as an Unsubsidized Direct Stafford Loan, with interest from the date(s) of the original disbursement.

Educational Opportunity Program (EOP) Grant is available to eligible undergraduate California residents who are admitted to Sacramento State through the EOP program. Due to limited state funding, not all EOP students receive this grant. Other eligibility criteria also apply.

State University Grant (SUG) is available to eligible California residents and is designated to assist with tuition fees. A student may only receive one award designated for tuition fees. Priority for SUG is given to students meeting the eligibility criteria and who have filed their financial aid application by the March 2nd priority deadline. Funding is limited.

Cal Grants (Cal Grant A and B) is available to eligible undergraduate California residents. Eligibility is determined by the California Student Aid Commission (CSAC) for students meeting the March 2nd priority filing deadline. Cal Grant A is designated for tuition fees. A student may only receive one award designated for payment of tuition fees. Other eligibility criteria also apply.

Loans
All loans are considered "borrowed" funds and must be repaid after the student graduates, leaves school or drops below half-time enrollment. Students are encouraged to only borrow the amount needed to cover educational expenses and understand their rights and responsibilities as a borrower. All student loan borrowers must complete a Federal Direct
Loan Master Promissory Note (MPN), Entrance Loan Counseling and Exit Loan Counseling.

Nursing Student Loans (NSL) assist eligible nursing students (admitted into the nursing program) with a low-interest (5%) loan. At Sacramento State, NSL are restricted to students in their junior and senior year in school. Awards are not made to pre-nursing students or students in the first and second year of the nursing program. Principal and interest payments are deferred until nine months after the recipient stops attending at least half-time.

The Federal Direct Subsidized Loan is a long term, fixed interest rate loan for undergraduate students and is need-based. Interest is deferred until six months after the student graduates or ceases to be enrolled.

The Federal Direct Unsubsidized Loan is a long term, fixed interest rate loan for eligible undergraduate and graduate students and is non-need based. Interest begins to accrue at the time of disbursement. Students are highly encouraged to make interest only payments while in school to avoid the accruing interest being added to the principal amount of the loan at time of repayment.

Repayment of both Federal Direct loans begin six months after the student graduates, leaves school or drops below half-time. Students must have completed their financial aid file and an award must be accepted before the Financial Aid & Scholarships Office be process the loan(s). Additionally, borrowers must complete the required Direct Loan Entrance Loan Counseling and a Master Promissory Note (MPN) before receiving loan funds. Students who have previously completed the Direct Loan Entrance Loan Counseling and MPN requirement at Sacramento State are exempt.

In general, students may borrow the following maximum amounts annually:

<table>
<thead>
<tr>
<th>Direct Loan Annual Loan Limits By Class Level</th>
<th>Class Level</th>
<th>Dependent</th>
<th>Independent</th>
<th>(Max Subsidized)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>$5,500</td>
<td>$9,500</td>
<td>($3,500)</td>
<td></td>
</tr>
<tr>
<td>Sophomore</td>
<td>$6,500</td>
<td>$10,500</td>
<td>($4,500)</td>
<td></td>
</tr>
<tr>
<td>Junior/Senior</td>
<td>$7,500</td>
<td>$12,500</td>
<td>($5,500)</td>
<td></td>
</tr>
<tr>
<td>Credential</td>
<td>$5,500</td>
<td>$12,500</td>
<td>($5,500)</td>
<td></td>
</tr>
<tr>
<td>Unclassified Grad</td>
<td>$5,500</td>
<td>$12,500</td>
<td>($5,500)</td>
<td></td>
</tr>
<tr>
<td>(Masters)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unclassified Grad</td>
<td>$2,625</td>
<td>$8,625</td>
<td>($2,625)</td>
<td></td>
</tr>
<tr>
<td>(Credential)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduate</td>
<td>$20,500</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Lifetime Loan Limits By Degree Objective

<table>
<thead>
<tr>
<th>Degree Objective</th>
<th>Dependent</th>
<th>Independent</th>
<th>(Max Subsidized)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>$31,000</td>
<td>$57,500</td>
<td>($23,000)</td>
</tr>
<tr>
<td>Graduate</td>
<td>NA</td>
<td>$138,500</td>
<td>($65,500)</td>
</tr>
</tbody>
</table>

Federal Direct PLUS Loans (Parent Loans) is a long term, fixed interest rate loan for eligible parents of dependent students. The annual loan limit is the student’s cost of attendance minus other financial aid assistance. Repayment beings for the principal and interest 60 days following the date of full disbursement. If the parent is denied the PLUS loan because of adverse credit history, the dependent student may request consideration for additional unsubsidized loan eligibility.

Federal Direct Graduate PLUS Loans is a long term, fixed interest rate loan for eligible graduate students who demonstrate credit worthiness.

Repayment begins 6 months after the student graduates, leaves school, or drops below half-time enrollment.

**Employment**

Federal Work-Study (FWS) is a federally funded, need-based employment program that provides eligible students the opportunity to earn funds for their educational expenses through job opportunities. Many different types of job opportunities are available, ranging from library attendants to research assistants. A wide range of choices exists in the University as well as in nonprofit agencies in the metropolitan area, including community service opportunities. Recipients may work up to 20 hours per week. Job opportunities may be found by checking with our Career Center (https://www.csus.edu/student-life/career-center/).

1 See also Academic Support Resources (p. 27)/Cooperative Education Program.

**Scholarships**

The Financial Aid & Scholarships Office administers Institutional, Departmental, and Community scholarships. Typically, scholarships are disbursed at the beginning of the Fall and Spring semesters. Scholarships are considered a resource and must be coordinated as part of the student’s overall financial aid package and therefore, may reduce other financial aid awards.

Scholarship inquiries can be sent via email to scholarshipfaqs@csus.edu.

**The Scholarship Program at Sac State**

A student may apply for all available Institutional and Departmental Scholarships by completing the single general application. Scholarship applications are accessible via My Sac State > Student Center. The University offers a wide number of scholarships in diversified categories and majors. Scholarship eligibility, requirements and award amounts may vary from scholarship to scholarship. Application and award information is available on the Scholarships Office website (https://www.csus.edu/apply/financial-aid-scholarships/scholarships/). The application cycle is open from mid-October through mid-March each year for the upcoming Fall and Spring semesters.

**Other Scholarship Programs**

Other scholarship programs may be available from community organizations and private industry. Students are encouraged to contact any service and religious organizations, and other professional affiliations they may be involved in for possible scholarship opportunities.

**Fee Waivers and Exemptions**

The California Education Code provides for the waiver of mandatory systemwide tuition fees as summarized below:

Section 66025.3(a) - Dependent eligible to receive assistance under Article 2 of Chapter 4 of Division 4 of the Military and Veterans Code; child of any veteran of the United States military who has a service-connected disability, has been killed in service, or has died of a service-connected disability, and meets specified income provisions; dependent, or surviving spouse who has not remarried of any member of the California National Guard who, in the line of duty, and while in the active service of the state, was killed, died of a disability resulting from an event that occurred while in the active service of the state, or is permanently disabled as a result of an event that occurred while in the active service of the state; and any undergraduate student who is a recipient of a Medal of Honor, or undergraduate student who is a child of a recipient of a
Medal of Honor who is no more than 27 years old, who meets the income restriction and California residency requirement.

Section 66025.3(b) - Current or former foster youth who are 25 years of age or younger; has been in foster care for at least 12 consecutive months after reaching 10 years of age; meet any of the following:

1. Was under a current foster care placement order by the juvenile court;
2. Was under a foster care placement order by the juvenile court upon reaching 18 years of age;
3. Was adopted, or entered guardianship, from foster care;
4. Completes and submits the Free Application for Federal Student Aid (FAFSA);
5. Maintains a minimum grade point average and meets other conditions necessary to be in good standing at the university; and
6. Meets the financial need requirements established for Cal Grant A awards under Chapter 1.7 (commencing with Section 69430) of Part 42.

The waiver of mandatory systemwide tuition and fees under this section applies only to a person who is determined to be a resident of California pursuant to Chapter 1 (commencing with Section 68000) of Part 41 of the California Education Code.

Section 66602 – A qualifying student from the California State University (CSU) who is appointed by the Governor to serve as Trustee of the California State University (CSU) for the duration of the student member’s term of office.

Section 68120 – Surviving spouse or child of a deceased California resident who was employed by a public agency or was a contractor, or an employee of a contractor, performing services for a public agency, or was a firefighter employed by the federal government whose duty assignment involved the performance of firefighting services in this state. The deceased person's principal duties consisted of active law enforcement service or active fire suppression and prevention, and was killed in the performance of active law enforcement or active fire suppression and prevention duties (referred to as Alan Pattee Scholarships). Additionally, a person who qualifies for the waiver under this section as a surviving child or of a contractor, or of an employee of a contractor, or a firefighter employed by the federal government whose duty assignment involved the performance of firefighting services in this state. The deceased person's principal duties consisted of active law enforcement service or active fire suppression and prevention, and was killed in the performance of active law enforcement or active fire suppression and prevention duties (referred to as Alan Pattee Scholarships). Additionally, a person who qualifies for the waiver under this section as a surviving child or of a contractor, or of an employee of a contractor, who performed services for a public agency, must be enrolled as an undergraduate student at the California State University and meet the applicable income restriction requirement with supporting documentation (i.e. student's income, including the value of parent support, does not exceed the maximum household income and asset level for an applicant for a Cal Grant B award).

Section 68120.3 - Surviving spouse (until January 1, 2033) or surviving child (until attaining the age of 30) of a deceased California resident who was a licensed physician or licensed nurse employed by or under contract with a health facility regulated and licensed by the State Department of Public Health to provide medical services, or a first responder employed to provide emergency services as described in Section 8562 of the Government Code. The deceased person’s principal duties consisted of providing medical services or emergency services during the COVID-19 pandemic state of emergency (started March 4, 2020, until the Governor lifts the state of emergency), and the deceased person died of COVID-19 during the COVID-19 pandemic state of emergency. The person who qualifies for this waiver must enroll as an undergraduate student at a CSU, was a resident of California during the COVID-19 pandemic state of emergency, and the annual income (including the value of parent's support) does not exceed the maximum household income and asset level for an applicant for a Cal Grant A award, as set forth in Section 69432.7.

Section 68121 – A qualifying undergraduate student (until attaining the age of 30) who is the surviving dependent of any individual killed in the September 11, 2001, terrorist attacks on the World Trade Center in New York City, the Pentagon building in Washington, D.C., or the crash of United Airlines Flight 93 in southwestern Pennsylvania, if the student meets the financial need requirements set forth in Government Code Section 69432.7 for the Cal Grant A Program and either the surviving dependent or the individual killed in the attacks was a resident of California on September 11, 2001.

Section 69000 – A California resident who has been exonerated, as that term is defined in Section 3007.05 of the Penal Code; completes and submits the FAFSA; and meets the financial need requirements established for Cal Grant A awards. The student’s mandatory systemwide tuition and fees waived pursuant to this subdivision shall not have in excess of the equivalent of six years of full-time attendance in an undergraduate program.

Students who may qualify for the above benefits should contact the Admissions/Registrar’s Office for further information and/or an eligibility determination.

The California Education Code provides for the following nonresident tuition exemptions as summarized below:

Section 68075 - A student who is a member of the Armed Forces of the United States stationed in this state, except a member of the Armed Forces assigned for educational purposes to a state-supported institution of higher education, is entitled to resident classification only for the purpose of determining the amount of tuition and fees. If that member of the Armed Forces of the United States who is in attendance at an institution is thereafter transferred on military orders to a place outside this state where the member continues to serve in the Armed Forces of the United States, the member shall not lose the member's resident classification so long as the member remains continuously enrolled at that institution.

Section 68075.7 – A nonresident student is exempt from paying nonresident tuition or any other fee that is exclusively applicable to nonresident students if the student:
1. Resides in California;
2. Meets the definition of "covered individual" as defined in Section 3679(c)(2) of Title 38 of the United States Code; or
3. Is eligible for education benefits under the federal Montgomery GI Bill–Active Duty program (Chapter 30 (commencing with Section 3001) of Title 38 of the United States Code), the Veterans Readiness and Employment program (Chapter 31 (commencing with Section 3100) of Title 38 of the United States Code), the Post–9/11 GI Bill program (Chapter 33 (commencing with Section 3301) of Title 38 of the United States Code), or the Survivors’ and Dependents’ Educational Assistance program (Chapter 35 (commencing with Section 3500) of Title 38 of the United States Code), as each read on January 5, 2022.

Section 68122 – A student who is a victim of trafficking, domestic violence, and other serious crimes who has been granted a status under Section 1101(a)(15)(T)(i) or (ii), or Section 1101(a)(15)(U)(i) or (ii), of Title 8 of the United States Code shall be exempt from paying nonresident tuition to the same extent as individuals who are admitted to the United
States as refugees under Section 1157 of Title 8 of the United States Code. Section 68130.5 – A nonresident student, other than a person excluded from the term “immigrant” for purposes of the federal Immigration and Nationality Act (8 U.S.C. Sec. 1101), pursuant to paragraph (15) of subsection (a) of Section 1101 of Title 8 of the United States Code, shall be exempt from paying nonresident tuition if the student meets the requirements of (1) through (4), below.

1. Satisfaction of the requirements of either subparagraph (A) or subparagraph (B).
   a. A total attendance of, or attainment of credits earned while in California equivalent to, three or more years of full-time attendance or attainment of credits at any of the following:
      i. California high schools;
      ii. California high schools established by the State Board of Education;
      iii. California adult schools established by a county office of education, a unified school district or high school district, or the Department of Corrections and Rehabilitation (subject to the class hours' requirement);
      iv. Campuses of the California Community Colleges (subject to the credit requirements); or
      v. A combination of those schools set forth in clauses (i) to (iv), inclusive.
   b. Three or more years of full-time high school coursework in California, and a total of three or more years of attendance in California elementary schools, California secondary schools, or a combination of both.

2. Satisfaction of any of the following:
   a. Graduation from a California high school or attainment of the equivalent thereof;
   b. Attainment of an associate degree from a campus of the California Community Colleges; or
   c. Fulfillment of the minimum transfer requirements established for the California State University for students transferring from a campus of the California Community College.

3. Registration as an entering student at, or current enrollment at, an accredited institution of higher education in California not earlier than the fall semester or quarter of the 2001–02 academic year.

4. In the case of a person without lawful immigration status, the filing of an affidavit with the institution of higher education stating that the student has filed an application to legalize the student's immigration status or will file an application as soon as the student is eligible to do so.

Satisfactory Academic Progress (SAP)

A student must meet Satisfactory Academic Progress (https://www.csus.edu/apply/financial-aid-scholarships/requirement-policies/satisfactory-academic-progress.html) toward their degree in order to maintain eligibility for financial aid each year. Satisfactory Academic Progress will be reviewed and monitored annually each spring after grades have posted. These standards comply with federal regulations and University policy, are applicable to all financial aid applicants at Sacramento State, and affect eligibility for all federal and state aid including grants, loans and work study.

At Sacramento State, the financial aid office measures SAP annually in three areas and all three standards must be met:

1. Minimum Cumulative GPA standard:
   Students are required to maintain a cumulative GPA of 2.0 as undergraduates and 3.0 as doctorate, graduate, credential students, and unclassified graduate students.

2. Overall Degree Progress standard:
   Students are required to complete their degree/certificate within 150 percent of their program degree objective.

   All graded coursework are counted, including transfer units, repeats, in-progress and withdrawals. SAP review also incorporates all unsuccessful coursework attempted at Sacramento State (i.e. “F”, “I”, “NC”, “W”, “WU”).

Probation Warning: Students who have completed 120 percent of attempted coursework will receive a warning notification. This early warning enables the student to seek academic advisement for degree completion prior to reaching 150 percent.

3. Satisfactory Pace Standard:
   The satisfactory pace standard measures progress for the prior academic year measuring units earned in comparison to units attempted. Students must pass at least 67 percent of units attempted.

   All graded coursework are counted, including repeat coursework, in-progress and withdrawals. SAP review also incorporates all unsuccessful coursework attempted at Sacramento State (i.e. “F”, “I”, “NC”, “W”, “WU.

   Transfer units are not included in this calculation.

Financial Aid Disqualification

Students will become disqualified from receiving financial aid if any one of the following applies:

- they fail to meet the GPA requirements;
- they fail to successfully complete fewer than 67% of their attempted units in any academic year;
- they fail to complete their program within 150% of their degree program required units

Appeal Review

Students not meeting the requirements will be “Financial Aid Disqualified” and notified accordingly with instructions on how they may submit an appeal and the appeal process.

Appeal Process

Students who disqualify from receiving financial aid will be notified via MySacState Student Center and provided instruction on the process. Appeals will be evaluated based on the student’s extenuating circumstance and plan to take corrective measures toward successful degree completion.

Students who are disqualified due to low GPA or failure to successfully complete at least 67% of coursework attempted may submit an appeal for consideration of reinstatement of financial aid. Students may need to submit an Academic Plan, indicating courses that will be taken in subsequent semesters and to successfully progress toward degree completion.

Students who disqualify due to exceeding 150% of the required units for their program must submit an Academic Plan with their appeal and indicate required courses needed to complete undergraduate degree. Appeal will only be approved to receive financial aid for coursework required to graduate.
Students with an approved appeal are placed on probation, progress is evaluated at the end of the term. A student must be meeting progress in order to maintain eligibility for financial aid.

**Regaining Eligibility**

Students who appeal and appeal is approved are placed on probation. Students with an approved appeal must meet SAP standards at the end of the probation semester to regain eligibility for the subsequent semester.

Students who do not appeal are able to regain eligibility by meeting SAP standards by the end of the academic year when annual SAP process is run.

**Drop in Units**

Students who received financial aid funds should consult with the Financial Aid & Scholarships Office prior to dropping a course or withdrawing from the University to determine the impact on the financial aid received for that semester. Students can meet with an advisor at the Student Service Center (https://www.csus.edu/student-affairs/centers-programs/student-services-center/) during office hours to discuss their file. A student who receives aid and drops units, withdraws, drops out, is expelled, etc., during or after the first day of instruction will be reviewed in accordance with the Federal Title IV Return of Title IV Policy to determine percentage of aid they have earned based on number of days they attended during the semester. As a result, student may be required to return portion of financial aid they received for that academic term. For drop in units, aid will be adjusted at Census date to reflect the final enrollment status.

**Special Categories of Students**

Students in the International Program, Visitor Status, Consortium, and/or contractual programs must meet with a financial aid counselor.

Summer requires a separate institutional application available on the Financial Aid & Scholarships Office web site in April at www.csus.edu/ faid (http://www.csus.edu/faid/).

Open University students are not eligible for financial aid. Courses being audited are not considered toward enrollment for financial aid purposes.

**Return of Title IV Funds Policy**

**What is Title IV Aid?**

Title IV of the Higher Education Act of 1965, as amended in 1998, (Title IV, and HEA program) establishes general rules that apply to federal student financial assistance programs.

Title IV funds are awarded to students under the assumption they will attend school for the entire semester for which the federal financial aid is given. When a student withdraws, they may no longer be eligible for the full amount of Title IV funds they were originally scheduled to receive.

**What Return of Title IV Funds Means to Financial Aid Recipients**

Federal regulations require the Financial Aid & Scholarships Office to calculate a Return of Title IV Funds for students who withdraw during the semester. The policy applies to students who cease enrollment in all classes, on or after the first day of the semester. The institution is required to determine the earned and unearned portions of Title IV aid as of the date the student ceased attendance based on the amount of time the student spent in attendance. Any aid received in excess of the earned amount is considered unearned. The unearned amount is then returned to the federal aid programs it was disbursed from in the order determined by the U.S. Department of Education. The earned portion is calculated on a daily basis using calendar days from the first day of instruction. Additionally, any State grant funds received may be subject to the same earned and unearned calculation.

**How is Return of Title IV Funds Calculated**

**Return of Title IV Funds (Earned vs. Unearned Aid)**

Within 45 days from when you discontinue enrollment, Financial Aid and Scholarships must calculate the amount of financial aid you have earned prior to the date the action was filed. Any aid received in excess of the earned amount is considered unearned. The unearned financial aid must be returned to the respective federal programs no later than 45 days from when the student separated from Sac State. The calculation is based upon only the amount of Title IV Aid for which you were eligible.

Sac State's policy uses a similar formula to calculate how much state aid is earned if the student discontinued enrollment before the end of the semester.

**Calculating Earned Financial Aid**

The amount of earned financial aid is calculated on a daily basis from the first day of classes. The process uses calendar rather than business days. Earned aid is determined by taking the number of days attended before enrollment ended divided by the total number of days in the semester (first day of instruction until the last day of finals, excluding spring break for semester students).

Return policies apply to students that withdraw on or before the 60% point of the term. For a student who withdraws after the 60% point-in-time, there is no unearned financial aid.

Once the earned and unearned aid percentages are determined, the next step is to calculate the dollar amount of unearned aid that must be returned. The Return amount is determined by multiplying the unearned aid percentage by the total of all Title IV aid received.

Unearned Aid Percentage x Total of all Title IV Funds Received = Total Unearned Aid

**School Portion of the Return**

The amount of unearned aid that must be returned by Sac State is a percentage of the institutional charges for the semester. Once the dollar amount of the school portion of the Return is determined, it is compared to the total amount of all unearned aid. If the school portion is less than the total unearned aid, then Sac State must return the amount of the school portion. If the calculated school portion exceeds the total unearned aid, then Sac State must return the amount of the total unearned aid. Financial aid will be returned to the aid program from which it came. If returned to a loan program, your outstanding balance will be reduced by the amount of the return. Aid will be returned in the following order.

1. Unsubsidized Direct Loan
2. Subsidized Direct Loan
3. Direct PLUS Loans
4. Federal Pell Grants
5. Federal Supplemental Educational Opportunity Grant
6. Iraq and Afghanistan Service Grant

**Late or Post-Withdrawal Disbursement**

Students may be eligible for a late or post-withdrawal disbursement if they have accepted aid that did not disburse at the time of withdrawal from Sac State. If eligible, Sac State Financial Aid and Scholarships will send notification of the action required to either accept or decline a
portion, or all, of the late disbursement. If no response is received within approximately two weeks of notification, the award will be canceled.

Consequences of Outstanding Repayment Obligation

Sacramento State does not have the authority to waive or write off the repayment requirement regardless of the reason for the withdrawal, including extenuating circumstances such as illness, accident, or grievous personal loss.

A student who fails to return the unearned Federal Financial Aid funds will be referred to the U.S. Department of Education for collection and the University may withhold permission to register, to use facilities, or render services. Until the repayment issue is resolved, the student’s Free Application for Federal Student Aid (FAFSA) record will be “flagged” every time a student files for aid. A student in repayment is ineligible for Financial Aid at any other institution in the nation until it can be verified the student is in repayment. In addition to referral to the U.S. Department of Education, failure to pay this debt by the due date may also result in an offset of your state income tax refund, and/or referral to a third-party collection agency.

Process

Students who find it necessary to withdraw from Sacramento State after enrolling for any academic term are required to follow the official withdrawal procedures. Failure to follow formal withdrawal procedures may result in the assignment of failing grades, or the assignment of an unofficial withdrawal by the course instructor(s) in all courses and the need to apply for readmission before being permitted to enroll in another academic term.

Students needing to withdraw, begin the process by filling out the University Withdrawal form https://www.csus.edu/student-affairs/centers-programs/student-services-center/forms.html

Unofficial Withdrawal

Sac State Financial Aid and Scholarships reviews posted grades every semester. If a student receives all non-passing grades, and there is no record of academic activity they are determined to have unofficially withdrawn. Per Federal Return of Title IV regulations, federal, state, and institutional funds are adjusted using the 50% point of the term as the withdrawal date.

In order to reevaluate this determination, documentation must be provided to support attendance in all courses for the term. For example, correspondence from the student’s instructor(s).

Cost of Attending Sacramento State

Student budgets, also known as Cost of Attendance (COA), are designed to provide students with a projection of reasonable costs to attend school for a 9 month period. The students COA includes direct costs which are actual tuition and fees charged and, if applicable on campus housing charges. Indirect costs included in the total COA are as follows: an allowance for books and supplies, food and housing for those living off-campus or with parents, transportation costs and an allowance for miscellaneous/personal items. The following chart is an estimate of the cost of attendance during the 2021-2022 academic year as a full-time undergraduate student and may not represent your actual expenditures for these items.

<table>
<thead>
<tr>
<th>Allowance</th>
<th>Live with Parents</th>
<th>Live On-Campus</th>
<th>Live Off-Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fees</td>
<td>$7,392</td>
<td>$7,392</td>
<td>$7,392</td>
</tr>
<tr>
<td>Books/Supplies</td>
<td>$1,112</td>
<td>$1,112</td>
<td>$1,112</td>
</tr>
</tbody>
</table>

Food/Housing $6,860 $15,944 $19,096
Transportation $1,610 $1,076 $1,326
Misc. Personal $2,564 $2,564 $2,564

TOTAL $19,538 $28,088 $31,490

Budget figures are subject to change without notice. The CSU makes every effort to keep student costs to a minimum. Fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, the CSU must reserve the right, even after initial payments are made, to increase or modify any listed fees, without notice, until the date for a particular semester or quarter has begun. All CSU listed fees should be regarded as estimates that are subject to change upon approval by The Board of Trustees.

Registration

Introduction to My Sac State

www.csus.edu (http://www.csus.edu)

Continuing Sacramento State students and new students who have received notice of admission are eligible to register for classes. Registration is conducted online through the Student Center on My Sac State. Eligible students are assigned a registration appointment by class level priority. The Class Schedule is available online in March for fall semester. In most academic departments, advising begins in early March for fall semesters and in October for spring semesters.

Registration information will be communicated to all eligible students in April for fall semesters and November for Spring semesters. Summer registration begins April. The Academic Advising Center offers advising and registration assistance to newly admitted students during the orientation program prior to each fall and spring semester.

Students who miss their registration appointment may enroll during Open or Late Registration. There is a $25 fee for late registration. Course availability may be limited.

Once students register for classes, all registration fees must be paid by established deadlines. Failure to pay registration fees or make appropriate arrangements for payments will result in enrollment cancellation. Contact the Bursar’s Office for payment deadlines.

Adding Courses

Students are expected to add courses by using "My Sac State" at www.my.csus.edu

- Until the end of the second week of the semester. Course adds that require instructor permission must be completed by using an add permit available from the academic department or at the Registrar’s Office website (https://www.csus.edu/student-affairs/centers-programs/student-services-center/forms.html).
- Adds in weeks three and four of the semester are processed through the academic department and require approval by the instructor and department chair.
- Adds are not approved after week four (the census date) unless students present evidence of University error that prevented their timely registration. University error does not include failure to meet all payment deadlines. In addition to completing a Petition to Add/ Drop/Withdraw from courses after deadline, students must state their reason for a late add request on a separate page and attach it to the petition, along with verification of the circumstances. Students must
then obtain signatures of the instructor, department chair, and college dean. See Petition to Add/Drop/Withdraw for more details.

- After filling out Petition to Add/Drop/Withdraw, students must submit the petition to the Registrar’s Office, Lassen Hall 2000, for consideration by the vice president (or designee). A late fee of $10 will be posted on the student account within two weeks, if approved. Check back with the Registrar’s Office two business days after submitting payment (check/money order only). If approved, the Registrar’s Office will add the course to the student’s schedule.

- Adds for audits must be noted on the petition, and the petition must be submitted to the Registrar’s Office. No adds for audit are permitted after the census date.

Drop and Withdrawal Policy

Definitions

**Dropping** a course refers to official removal from a course within the first four weeks of the semester (before census date). In this instance, nothing is recorded on the student’s permanent record.

**Withdrawal** from a course is an official removal from a course after census date. A grade of "W" is recorded on the student’s permanent record.

**Enrollment Cancellation** refers to students being administratively dropped from courses due to non-payment of fees. Enrollment Cancellation is done throughout the registration cycles prior to the census date. No "W" grades are recorded on the student's permanent record. If a student is enrollment cancelled after classes begin, they will be charged fees prorated for each day of enrollment. If student is enrollment cancelled during their first semester prior to the first day of classes, they will be required to reapply for admission.

**Unauthorized Withdrawal** may result for failure to drop or withdraw properly from a course. In this case, a grade of "WU" is assigned by the instructor. (See "Unauthorized Withdrawal Policy" below.)

**Limit on Withdrawal.** For all units attempted at California State University Sacramento, withdrawals made after the census date and prior to the last three weeks of instruction are limited to a combined total of no more than 18 semester-units during a student’s academic career at CSUS.

Dropping Courses

Although instructors may exercise their authority to administratively remove any student who fails to attend during the first two weeks of instruction, students should not assume they will be dropped. Students will receive a final grade of "F" or "WU" in courses they fail to drop officially.

- Students wishing to withdraw from all courses should fill out the Semester Withdrawal Form.
- Until the end of the second week of instruction of the semester, students are expected to drop courses by using "My Sac State" (www.my.csus.edu). Students will be charged registration fees for all courses not dropped prior to the first day of instruction. The drop in units refund deadline is the end of the second week of instruction.
- Drops during the third and fourth weeks of instruction are processed in the academic department offering the course and require instructor and department chair approval. Forms are available at academic department offices, or at the Office of the Registrar’s website (https://www.csus.edu/student-affairs/centers-programs/student-services-center/forms.html).

Withdrawal from a Course

Drops after the fourth week of the semester (census date) are called withdrawals. The approved Petition to Add/Drop/Withdraw form must be submitted to the Registrar’s Office (Lassen Hall) after the fourth week. The petition is available through academic department offices, or at the Office of the Registrar’s website (https://www.csus.edu/student-affairs/centers-programs/student-services-center/forms.html).

- Students may withdraw from no more than 18 units in their undergraduate career, unless an exception is granted (any "W" grades received prior to the Fall 2010 semester do not count towards the 18 unit maximum).
- If students are seeking to drop or withdraw from an individual course or courses after the fourth week of the semester, and have reached the University maximum of 18 units of "W" grades allowable, they must submit an approved Petition to Add/Drop/Withdraw as a supplement to their Petition for Exception: Withdrawal in Excess of 18 units. This form is available at the Office of the Registrar’s website (https://www.csus.edu/student-affairs/centers-programs/student-services-center/forms.html).

- Withdrawals after the fourth week of the semester are granted only for “serious and compelling” reasons:
  a. Withdrawal during the 5th and 6th week of the semester requires the signature of the course instructor and the department chair. Reasons for dropping in during this period include medical circumstances, carrying an excessive course load, student’s inadequate academic preparation for the course, or the student having significant job or career changes.
  b. Withdrawal during the 7th through the 12th week requires the signature of the course instructor, the department chair, and the college dean. Reasons for withdrawal during this period include only medical or work related circumstances clearly beyond the control of the student; a student initiated job change, carrying an excessive course load, or inadequate preparation do not qualify. Withdrawal is allowed after the 12th week of instruction only in exceptional cases, such as in cases of accident or serious illness due to circumstances beyond the student’s control. All signatures are required and the student must meet with an Academic Advisor in the Academic Advising Center. Withdrawals approved during the last three weeks of the semester will not count towards the 18 unit maximum; however, a grade of "W" is still recorded on the transcript.

Attendance

Classroom attendance is generally necessary for academic success; therefore, regular attendance at class is expected. In some courses (for example, laboratories or seminars), attendance is absolutely critical to the work of the course. Students are advised that individual faculty may establish attendance policies in their courses and may link absences to their evaluation of students’ performance in the course. Such policies must be stated in the course syllabus made available at the beginning of the semester. Excessive absences may lead a faculty member to assign a “WU” or “F” grade.

Instructors have the right to administratively remove any student who, during the first two weeks of instruction, fails to attend any two class meetings (for courses that meet two or more times a week), or one class meeting (for courses that meet once a week). It is therefore
especially important that students contact instructors in advance regarding absences during the add/drop period. However, do not assume instructors will turn in official drops. It is the responsibility of each student to officially drop any scheduled courses he or she is not attending. Failure to do so will result in penalty grades ("WU" or "F").

Cancellation of Registration or Withdrawal from the University
Student Service Center
Lassen Hall Lobby
(916) 278-1000

Students who find it necessary to cancel their registration or to withdraw completely from Sacramento State after enrolling for any academic term are required to follow the university’s official withdrawal procedures (see below). Failure to follow formal university procedures may result in an obligation to pay fees, the assignment of failing grades in all courses, and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available from the Registrar’s Office at (916) 278-1000.

Students who receive financial aid funds must consult with the Student Services Center prior to withdrawing from the university regarding required return or repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial aid and withdraw from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution.

Sacramento State students withdrawing from all classes in a given semester must receive approval from the Student Services Counselor before leaving the university. Students withdrawing from one or some of the classes, but not all, after the sixth week of the semester for academic reasons must receive approval from the college dean of the class being dropped.

Students withdrawing after the fourth week of instruction will receive a grade of "W" in each class.

Students who are withdrawing because they are incapacitated and are unable to obtain approvals in person must contact the Student Services Center to discuss processing procedures. Verification of illness or accident should accompany a student’s request.

Withdrawals from the University during the final three weeks of the semester shall not be permitted except in cases such as accident or serious illness, where the cause of withdrawal is/are clearly beyond the student’s control, occurred after the 12th week of the semester, and the assignment of "Incomplete" grades each course is impractical. Medical documentation will be required.

A student who pays registration fees and subsequently withdraws after the first day of the semester usually is considered a continuing student for the next semester and need not reapply for admission.

For information regarding refund of registration fees upon withdrawal, refer to Fees page: https://www.csus.edu/apply/enrollment-costs-fees/refunds/.

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1 See Fees and Refunds/Financial Aid Refunds/Title IV.

Immunization Requirements
Student Health and Counseling Services
(916) 278-6461
https://www.csus.edu/student-life/health-counseling/

CSU Immunization Requirements
Entering CSU students are required to present proof of the following immunizations to the CSU university they will be attending before the beginning of their first term of enrollment.

Measles, Mumps, and Rubella (MMR): Two (2) doses with first dose on or after 1st birthday; OR positive titer (laboratory evidence of immunity to disease).

Hepatitis B (Hep B): All new students who will be 18 years of age or younger at the start of their first term at a CSU university must provide proof of full immunization against Hepatitis B before enrolling. Full immunization against Hepatitis B consists of three timed doses of vaccine over a minimum 4 to 6 months period. If you need further details, please consult Student Health and Counseling Services.

Varicella (Chickenpox): Two (2) doses with first dose on or after 1st birthday; OR positive titer (laboratory evidence of immunity to disease) prior to enrollment.

Tetanus, Diphtheria, Pertussis (Td): One (1) dose after age 7.

Meningococcal conjugate (Serogroups A, C, Y, & W-135): One (1) dose on or after 16 for all students and age 21 or younger.

Tuberculosis Screening/Risk Assessment: All incoming students must complete a Tuberculosis risk questionnaire. Incoming students who are at higher risk* for TB infection, as indicated by answering "yes" to any of the screening questions, should undergo either skin of blood testing for TB infection within one year of CSU entry.

*Higher risk include travel or living in South or Central America, Africa, Asia, Eastern Europe, and the Middle East; prior positive TB test; or exposure to someone with active TB disease.

The above are not admission requirements, but are required of students as conditions of enrollment in CSU.


Reservation
The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant’s suitability and the best interests of the University.

Immigration Requirements for Licensure
Office of the University Registrar
Office of the University Registrar
Student Service Center
Lassen Hall Lobby
(916) 278-6461

The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (PL. 104-193), also known as the Welfare Reform Act, includes provisions to eliminate eligibility for federal and state public benefits for...
certain categories of lawful immigrants as well as benefits for all illegal immigrants.

Students who will require a professional or commercial license provided by a local, state, or federal government agency in order to engage in an occupation for which the CSU may be training them must meet the immigration requirements of the Personal Responsibility and Work Opportunity Reconciliation Act to achieve licensure. Information concerning the regulation these requirements are available from the Office of the University Registrar.

**Maximum Course Load**

Because of the preparation required to do quality work, a normal course load is considered to be 15 to 17 units, depending on the curriculum in which the student is enrolled. Students who want to accelerate their programs may enroll for a maximum of 18 units in a semester by adding courses during the change-of-program period, known as Open Registration.

Students whose University record justifies a course load in excess of 21 units may petition to be allowed to carry extra units. The petition must be recommended by their advisor and approved by their major department chair and college dean. Only students with superior academic records are allowed to enroll for more than the maximum unit load. An overall grade point average of at least 3.25 is normally required, and the need to carry an overload must be established. Factors such as time spent in employment or commuting, nature of the program, and the student’s health should be considered in planning a student load. Students who are employed full time are advised not to carry a load in excess of 6 units.

**Intrasystem and Intersystem Enrollment Programs**

Office of the University Registrar
Lassen Hall 2000

Fully matriculated students enrolled at any CSU university have access to courses at other CSUs on a space available basis unless those universities/programs are impacted. This access is offered without students being required to be formally admitted to the host university and in most cases without paying additional fees. Students should consult their home university academic advisors to determine how such courses may apply to their specific degree programs before enrolling at the host university.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California Community Colleges. Please contact the Office of the University Registrar for additional information.

Students are not required to notify the University of their intention to discontinue enrollment unless applying for a Leave of Absence or one of the special statuses explained below.¹

¹ Refer to Application to Sacramento State (p. 27)/Returning Student.

**CSU Fully Online Courses**

Matriculated students in good standing may request enrollment in one course per term, offered by a CSU host university. Enrollment requests will be granted based on available space, as well as completion of any stated pre-requisites. Credit earned at the host university is electronically reported to the student's home university to be included on the student's transcript at the home university.

**CSU Visitor Enrollment**

Matriculated students in good standing enrolled at one CSU university may enroll at another CSU university for one term. Credit earned at the host university is reported at the student's request to the home university to be included on the student's transcript at the home university. Students should consult Sacramento State advisors to determine how host university courses may apply to their degree programs before enrolling.

Visitor transfers are approved for one term only and are subject to space availability and enrollment priority policies at the host university. Enrollment as a visitor transfer may be repeated after re-enrollment at the home university. Concurrent enrollment (see below) is not permitted during visitor status. Visitor applications may be obtained from the Admissions Office or the Office of the University Registrar.

**Concurrent Enrollment Within CSU**

Matriculated students in good standing enrolled at any CSU university may enroll on a space available basis at both their home CSU university and a host CSU university during the same term. Credit earned at the host university is reported at the student's request to the home university to be included on the student's transcript at the home university. Many online courses at CSU university are available for concurrent enrollment. Because of overlap in academic terms of universities on semester and quarter calendars, concurrent enrollment is subject to combinations and conditions described in the concurrent enrollment application forms available from the Office of the University Registrar.

**Intersystem Cross Enrollment**

Matriculated CSU, UC, or community college students may enroll on a "space available" basis for one course per term at another CSU, UC, or community college and request that a transcript of record be sent to the home university.

Cross enrollment is available to students who:

1. are California residents;
2. have completed at least one regular term at their home university as a matriculated student;
3. have paid appropriate enrollment fees at the home university for the current term;
4. have earned a grade point average of 2.0 ("C" average) for all college work completed; and
5. have completed appropriate academic preparation for the course they intend to take, as determined by the host university.

Details on enrollment conditions and procedures are available from the Registrar's Office at the home university. Students must request a transcript of record be sent to the home university upon completion of the term.

**Concurrent Enrollment Outside CSU**

Degree Evaluations Office
Office of the University Registrar
Lassen Hall Lobby
(916) 278-4862

Students may enroll at another institution outside the CSU system while enrolled at Sacramento State without prior approval if the total course
load does not exceed 21 units. Students must arrange to have an official transcript mailed to Sacramento State, Transfer Credit Evaluations, Office of the University Registrar, upon completion of the term. It is advisable to confirm that courses attempted elsewhere will be transferable and meet Sacramento State requirements.

Concurrent Enrollment Within Sacramento State
Concurrent registration, also known as Open University, is enrollment in on-university courses through the College of Continuing Education. The formal application for admission, application fee, and supporting documents are not required for concurrent registration. Open University registration is not available to matriculated degree seeking students. \(^1\) Open University students are allowed to maintain enrollment status while exploring goals away from the University. The policy also allows classified graduates (those enrolled in master's degree programs) to maintain status in their programs during an absence. Sacramento State students who will not be enrolled at Sacramento State may file for a Leave of Absence to receive these benefits. Forms to apply for a Leave of Absence for Undergraduate students are available in the Office of the University Registrar, for Graduate level students the form is located on the Graduate Studies website.

Sacramento State students studying abroad through independent programs should contact the International Programs and Global Engagement Office for information.

As required by law, regulations regarding admission eligibility, established by the California State University Board of Trustees, will apply to re-admission. Students dismissed due to academic deficiencies or disciplinary action are not eligible for Leaves of Absence. (However, students readmitted to Sacramento State after only one semester of non-enrollment maintain catalog rights.) Students enrolled only in Extension courses or as Auditors are not eligible for Leaves of Absence.

Leaves of Absence
The leave policy allows enrolled Sacramento State undergraduate and second baccalaureate students to maintain enrollment eligibility and rights to specified degree requirement options. \(^1\) Unclassified postbaccalaureate students are allowed to maintain enrollment status while exploring goals away from the University. The policy also allows classified graduates (those enrolled in master's degree programs) to maintain status in their programs during an absence. Sacramento State students who will not be enrolled at Sacramento State may file for a Leave of Absence to receive these benefits. Forms to apply for a Leave of Absence for Undergraduate students are available in the Office of the University Registrar, for Graduate level students the form is located on the Graduate Studies website.

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Leaves approved for graduate students do not extend the seven year time limit for completion of graduate degree requirements established by Title 5, California Code of Regulations, Section 40510. Graduate students anticipating absence beyond such time limits must first seek approval through the Office of Graduate Studies, (916) 278-6470.

Enrolled Sacramento State students requesting leaves during a semester must follow withdrawal procedures. All contractual agreements (housing, financial aid, etc.) must be satisfactorily terminated. \(^1\) Refer to Baccalaureate Degree Requirements (p. 27)/Catalog Rights.

Types of Leaves
Medical
Requests must be accompanied by a statement from a medical doctor explaining why the student must interrupt enrollment. No limit exists on the number of semesters of absence allowed, except leaves for pregnancy, which are restricted to the semester of delivery and the one following. An application and fee are required at readmission following a leave of two or more semesters.

Military
Requests must be accompanied by a copy of military orders indicating induction or transfer date. Eight semesters absence is the maximum that can be approved. An application and fee are required at readmission for a leave of two or more semesters.

Planned Educational Leave
Students may petition for planned educational leaves to pursue educationally related activities that will enhance the prospect of successful completion of their academic programs but which may not require enrollment at Sacramento State or any other institution of higher education. The leave policy allows for a period of up to two years to students who apply while enrolled in a degree program at Sacramento State. If the leave is approved, the student retains degree catalog rights and may enroll as a continuing student provided the student notifies the Office of the University Registrar of her/his return and registers in the same semester indicated on the petition. However, an application and fee are required for formal readmission for a leave of two or more semesters.

One Semester Only
Sacramento State students who are not enrolled for one semester at Sacramento State are considered as on a leave of absence. Students who return after being absent for one semester do not have to file for readmission or pay the application fee, keep their catalog rights for undergraduate students and maintain classified status for graduate students. (Exception: graduate students who have completed all coursework and have received an "RP" in their culminating experience are required to enroll in Continuous Enrollment. Further information is available at the Office of Graduate Studies.) Students who do not enroll for two consecutive semesters without filing for a Leave of Absence are not considered as continuing students. Students must reapply for admission and pay the application fee. All application deadlines must be followed for consideration for readmission.

Enrollment at Regionally Accredited Colleges
Once catalog rights are established by enrollment at a California State University or California Community College (CCC), enrollment at a regionally accredited college maintains these catalog rights if two conditions are met:

1. enrollment takes place at the regionally accredited college for one semester or two quarters of each calendar year after leaving a CCC or Sacramento State; and
2. enrollment or re-enrollment at Sacramento State occurs within or at the end of a four-semester maximum absence.
Students attending regionally accredited colleges while absent from Sacramento State do not qualify for a Leave of Absence.

**Definition of Key Terms**

**Academic Action** — When a student's academic performance does not meet the University's minimum scholastic standards, he/she will be subject to academic action that will affect eligibility to register.

**Academic Program** — A pattern of specialized courses designed to provide students with the skills and knowledge necessary to pursue a specific career or advanced study. See list of academic programs (or majors).

**Career** — There are three designated academic careers for which transcripts are maintained: Undergraduate, Graduate, and College of Continuing Education (extension).

**My Sac State** — The access portal for student, faculty, and staff specific information and services. Students access specific information in the Student Center. Faculty access specific information in the Faculty Center.

**Class Level** — A student's class level based on units completed or academic program objective. Undergraduate class levels are:

<table>
<thead>
<tr>
<th>Class Level</th>
<th>Units Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>less than 30 units</td>
</tr>
<tr>
<td>Sophomores</td>
<td>30 to 59.9 units completed</td>
</tr>
<tr>
<td>Juniors</td>
<td>60 to 89.9 units completed</td>
</tr>
<tr>
<td>Seniors</td>
<td>90 or more units completed</td>
</tr>
</tbody>
</table>

Graduate students are those who have graduated with a baccalaureate degree from an accredited college or university.

**Computer Proficiency** — Courses using the various forms of computers and labeled as such will include a notice within the catalog description identifying the specific knowledge requirement as listed below:

- MAC-OS: start-up procedures, icon usage, file management, mouse input, print, backup, formatting, and copying.
- PC-DOS: start-up procedures, disk formatting and copying, print, directory listing, and program access.
- UNIX: log-in procedures, directory navigation, print, copy, run programs, and file management.
- VMS: log-in procedures, directory navigation, print, copy, run programs, and file management.

**Corequisite** — A corequisite is a course or other preparation which must be taken simultaneously. Corequisites are listed in the course description.

**Course Number System**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-99</td>
<td>Lower Division</td>
</tr>
<tr>
<td>100-199</td>
<td>Upper Division</td>
</tr>
<tr>
<td>200-299</td>
<td>Graduate</td>
</tr>
<tr>
<td>300-499</td>
<td>Professional Education</td>
</tr>
<tr>
<td>500-599</td>
<td>Master's or Doctoral Thesis or Project</td>
</tr>
<tr>
<td>600-699</td>
<td>Doctoral</td>
</tr>
</tbody>
</table>

**Double Major** — Students may obtain a baccalaureate degree with two majors by completing the requirements for both majors. Multiple majors will be recorded on the student’s permanent record and if the student has completed the requirements for two or more majors leading to different baccalaureate degrees, those degrees and completed major(s) shall be acknowledged on the diploma and official transcript.

**Earned Hours** — The number of academic units completed that may apply toward degree requirements.

**Electives** — Courses which may be selected by the student to complete total-unit requirements. In some cases, major requirements include electives, i.e., a given number of courses in the major to be selected by the student.

**Full-Time Status** — Undergraduate students enrolled in 12 or more units are considered full-time. Graduate students enrolled in 8 or more units are considered full-time. **Note**: Off-university agencies may use different definitions for determining full-time status.

**Minor** — The minor is a pattern of courses similar to the major, but less comprehensive. Only a few majors at Sacramento State require a minor, but students who have a substantial number of elective units in their degree program should consider applying them to a minor. The number of units required for a minor varies with the department; most minors require approximately 21 units. Requirements are listed in each department’s section of this catalog. A minor is posted to the official transcript but does not appear on the diploma. Minor requirements completed after graduation are not posted to the official transcript.

**OneCard** — Sacramento State's digital-image identification card for students. It allows students to access university services and also functions as a debit card.

**Part-Time Status** — Undergraduate students enrolled in 6-11 units are considered part-time. Enrollment in less than 6 units is considered less than part-time. Graduate students enrolled in 4-7 units are considered part-time. Enrollment in less than 4 units is considered less than part-time.

**Prerequisite** — A prerequisite is a course or other preparation which must be completed before enrollment in an advanced course. When applicable, prerequisites are included in catalog course descriptions.

**Unit** — A unit represents approximately one hour of class instruction each week for one semester. Semesters usually have 15 weeks of instruction with final examinations held on the 16th week. For example, HIST 17A, having a value of three units, would meet three hours each week for a total of 45 hours of instruction. The terms “unit” and “credit hour” are used interchangeably.
BACCALAUREATE DEGREE REQUIREMENTS

Baccalaureate Degree

All baccalaureate degrees at Sacramento State require completion of the requirements listed below. Degree requirements fall into three categories: General Education requirements; major/minor requirements; and other Graduation requirements, which are subject to catalog rights policy. These requirements are derived from Title 5 of the California Code of Regulations, action of the California State University system, and University policy.

Total Units

A minimum of 120 semester units is required. Some majors require additional units. No more than 70 units taken at a community college or other two-year college may be applied to this total.

Upper Division Units

Completion of at least 39 of the total units must be in junior and senior level courses numbered 100-199 at Sacramento State. At least 9 units must be upper division General Education.

Major

Completion of a specific number and pattern of courses in one or more academic departments is defined as a major and is required for graduation. Major requirements vary from a minimum of 24 units to a maximum of 105 units, with majors for the Bachelor of Arts requiring a minimum of 12 upper division units and majors for the Bachelor of Science requiring a minimum of 18 upper division units. Students may complete the requirements for two or more majors leading to the same baccalaureate degrees concurrently. Some Sacramento State majors require an academic minor or approved area of concentration (see requirement listings by major in Academic Programs).

General Education and Graduation Requirements

All undergraduate students must complete a minimum of 48 units of General Education requirements. Approved General Education courses are listed on the online Schedule of Classes each year. Undergraduate students must also complete Graduation Requirements.

American Institutions Graduation Requirement

Demonstrated competency in "American Institutions", including: U.S. History and the U.S. Constitution, and California state and local government, is required for graduation. These requirements may be satisfied through approved courses or through examinations given by the History and Political Science departments. A maximum of three units may count towards both GE Area D and American Institutions requirements.

English Composition Graduation Requirement

Two semesters of college-level English Composition courses, with a grade of "C" or higher, are required for graduation. English 5, 5M, 11, and 11M also satisfy GE Area A2 requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>ENGL 5</td>
<td>Accelerated Academic Literacies</td>
<td></td>
</tr>
<tr>
<td>ENGL 5M</td>
<td>Accelerated Academic Literacies - Multilingual</td>
<td></td>
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</tbody>
</table>

Writing Proficiency Graduation Requirement

GWAR Website (http://www.csus.edu/gwar/)

All undergraduate students must satisfy the Graduation Writing Assessment Requirement (GWAR) in order to graduate. The GWAR is satisfied by completing a designated upper division Writing Intensive (WI) course with a grade of C- or better. All WI courses have a prerequisite that can be met either by submitting a Writing Placement for Juniors Portfolio (WP, J) or by completing ENGL 109W or ENGL 109M. Students who choose Portfolio placement will be asked to submit samples of their college level writing from courses they’ve completed. Based on a review of that work, a pathway to a WI course, and to the GWAR, will be recommended. WI courses may also count toward General Education and/or major requirements.

Students having satisfied the Graduation Writing Requirement at other CSU campuses are considered to have satisfied the requirement at Sacramento State.

Foreign Language Graduation Requirement

Undergraduate students are required to meet a foreign language requirement for the baccalaureate degree. The policy requires proficiency to be demonstrated at a level comparable to the second semester of college level language, including American Sign Language (ASL). However, some Bachelor of Science high unit majors have been given an exemption from the Foreign Language Requirement. Those programs will be so noted in their catalog section. Students who change majors and are no longer in an exempt program will be subject to the University's Foreign Language Graduation Requirement.

Before Sacramento State Enrollment

The foreign language graduation requirement may be met by any one of the following:

1. completion of the third year of a foreign language in high school (grade of "C-" or better).
2. graduation from a secondary school where the language of instruction was not English.
3. advanced Placement Foreign Language Examination scores of 3, 4, or 5; or
4. completion of two semesters of a foreign language at a community college or university, with a grade of "C-" or better. The second semester of a foreign language may also count towards GE Area C2 requirements.

Students will be required to submit official high school or college transcripts or other admissions documents to verify the completion of this requirement.

Note: Students with language disabilities due to a specific learning disability, or are deaf, hearing or speech impaired, or who have sustained brain injury may, on the recommendation of the Director of Services for Students with Disabilities, satisfy the requirement in one of several alternative ways.
After Sacramento State Enrollment
If the language requirement has not been completed through one of
the above options, students must meet the Sacramento State foreign
language graduation requirement by completing one of the following
options:

1. passing intermediate-level tests in two of four skills: reading, writing,
   listening, and speaking. One of the tests passed must be in reading or
   writing.
2. passing an advanced-level proficiency test in reading. Contact the
   Department of World Languages and Literatures (Mariposa 2051,
   (916) 278-6333) for more information; or
3. completing the second semester or equivalent (1B) of a college-level
   language (including ASL) course with a grade of "C-" or better.

Race and Ethnicity in American Society Graduation
Requirement
All students must complete a three-unit course designated as meeting
the Race and Ethnicity in American Society requirement. Courses meeting
this requirement may also be used to satisfy the University's G.E. Area C,
D, or E requirements. Transfer students may satisfy this requirement at a
community college, upon completion of an appropriate course. Courses
meeting this requirement taken at Sac State by G.E.-certified students
may be used to satisfy portions of the G.E. residence requirement and, in
the case of approved upper division courses, the G.E. upper division unit
requirement.

Residence Requirement
At least 30 of the total units must be taken on the Sacramento State
campus. A minimum of 24 of these units must be upper division,
including at least 12 upper division units in the major (except for
Business, English, and Psychology which require 15 units). Sacramento
State units earned by extension and/or challenge examination do not
count toward the Sacramento State residence credit requirement.

Grade Point Average Requirement
An overall grade point average (GPA) of 2.0 is required in five areas:

1. total courses (cumulative GPA).
2. Sacramento State courses.
3. upper division courses applied to the major.
4. courses applied to the minor, and
5. courses used to complete General Education requirements.

Departments may impose additional grade and GPA requirements (e.g., a
department may require a "C-" or better in every course which is applied
to the major).

General Education Program
Office of Undergraduate Studies Website (http://www.csus.edu/acaf/ge/)

One of the principles on which a modern university rests is the
assumption that there is an important difference between learning to
make a living and building the foundation for a life. While the first goal is
important, the second is fundamental.

In focusing on the students’ development as whole or "educated" people,
a university distinguishes itself from a trade school. The goal of a
university education is not simply the acquisition and application of
knowledge, but the creation of people who firmly grasp the worth of
clear thinking and know how to do it; who understand and appreciate the
differences between peoples and cultures as well as their similarities;
who have a sense of history and social forces; who can express thought
clearly and have quantitative ability; who know something about the arts
as well as how to enjoy them; who can talk and think intelligently about
the physical and life sciences, the humanities, and literature; and, above
all, who have the desire and capability for learning. This goal is why a
university degree is so highly valued by individuals, employers, and the
community at large.

The Sacramento State General Education Program is designed to
educate in this holistic sense. Thus, it is not simply a series of courses
to complete or hoops for students to jump through as they complete the
courses in their major. Rather, general education lies at the heart of what
a university education is all about.

Therefore students should carefully select courses and actively seek
subject areas that are new and may challenge their world-views or
cherished assumptions and offer new experiences, such as inquiry-
based or community-based learning. In short, students shouldn’t take
the easy way out. This is their opportunity to lay the foundation for the
rest of their lives, and to define themselves as educated members of
the human community. Their time at the university is precious and the
General Education Program has been designed to help them begin the
process of becoming truly educated people. In deciding to pursue a
university degree, they have chosen well and should make the best use of
the opportunities open to them.

Objectives
Upon completion of the General Education Program requirements,
students will be expected to:

• read, write, and understand relatively complex and sophisticated
  English prose;
• construct a non-fallacious verbal argument, recognize fallacious
  arguments, and follow the verbal arguments of others;
• find and use common information resources, engage in specialized
  library research, use computers and seek out appropriate expert
  opinion and advice;
• use mathematical ideas to accomplish a variety of tasks;
• gain a general understanding of current theory, concepts, knowledge,
  and scientific methods pertaining to the nature of the physical
  universe, ecosystems, and life on this planet;
• develop an acquaintance and understanding of cultures and major
dynamic social institutions which affect one’s life; and
• possess a significant and useful understanding of peoples from a
diversity of cultures and backgrounds, including women and ethnic
and other minority groups who have been the objects of prejudice and
adverse discrimination within our society.

In addition to these basic skills, courses in the sciences, arts, humanities,
and social sciences have been selected to help students attain the
university’s baccalaureate learning goals and to satisfy particular GE Area
Learning Outcomes. The Baccalaureate Learning Goals include:

• Competence in the Disciplines: The ability to demonstrate the
  competencies and values listed below in at least one major field
  of study and to demonstrate informed understandings of other fields,
  drawing on the knowledge and skills of disciplines outside the major.
• Knowledge of Human Cultures and the Physical and Natural
  World through study in the sciences and mathematics, social
  sciences, humanities, histories, languages, and the arts. Focused by
  engagement with big questions, contemporary and enduring.
• Intellectual and Practical Skills, Including: inquiry and analysis, critical, philosophical, and creative thinking, written and oral communication, quantitative literacy, information literacy, teamwork and problem solving, practiced extensively across the curriculum, in the context of progressively more challenging problems, projects, and standards for performance.

• Personal and Social Responsibility, Including: civic knowledge and engagement—local and global, intercultural knowledge and competence, ethical reasoning and action, foundations and skills for lifelong learning anchored through active involvement with diverse communities and real-world challenges.

• Integrative Learning, Including: synthesis and advanced accomplishment across general and specialized studies.

Sacramento State General Education courses are designed, selected, and approved by the faculty to meet these program objectives. Students will benefit from consultation with the Academic Advising Center or advisors in their major departments in planning their General Education course choices. Students may search the online Schedule of Classes by Area or other specification(s) for currently available GE courses.

Course Requirements
Courses have been approved to meet the 48-unit General Education pattern required of Sacramento State students. In addition, a second semester composition course and demonstration of proficiency in a foreign language are required for graduation. (See GE requirements for a description of these requirements.) Students must choose their General Education classes from the Areas and classes listed in the catalog.

General Education Policies
• All upper division GE courses require at least second semester sophomore standing (45 units) and completion of all GE Area A courses as prerequisites.
• At least 3 upper division GE units must be completed each in Area B, Area C, and Area D, for a total of at least 9 upper division units. (Courses numbered 100-199).
• The Writing Intensive course may be counted as upper division GE if it is listed as a GE course. Students must complete the course with a C- or higher to certify the GWAR.
• Each course taken to satisfy the Area A Basic Subjects and Area B4 Quantitative Reasoning must be completed with a grade of "C-" or higher.
• A 2.0 cumulative GPA is required in General Education.

Overlap Between General Education Graduation Requirements and Majors/Minors
General education requirements include six areas (A-F) in which you must take courses (Area Requirements) and, a nine-unit upper division requirement. Some courses that satisfy an Area Requirement may also satisfy a Graduation Requirement or a major requirement. The overlap possibilities are outlined below. Students needing help applying these overlap policies are encouraged to see an advisor in the Academic Advising and Career Center, Lassen Hall 1013.

1. The Race and Ethnicity requirement can be met with an upper or lower division course from a student’s major or major department or in a General Education Area. Example: A Social Work major can use SWRK 102 to meet the Race and Ethnicity requirement.
2. The Writing Intensive requirement can be met with a course from the major or major department in specified majors, but not in all majors. Some, but not all WI courses also satisfy a GE Area Requirement.
3. Up to three units of the American Institutions Graduation Requirement may also satisfy a GE Area D Requirement. (in designated high unit majors, 6 units of duplication may be permitted).
4. Satisfying the Foreign Language Graduation Requirement by completing the second semester of a single language may also satisfy a GE Area C2 Requirement.
5. There is no restriction on the overlap of courses between GE and minor requirements.
6. There is no restriction on the overlap of courses between GE and major courses.

Transfer Students
Transfer students who have completed lower division General Education requirements at a California community college, including those certified under the Intersegmental General Education Transfer Core Curriculum (IGETC), and/or those in receipt of an Associate Degree for Transfer (ADT), are required to complete 9 units of upper division GE at Sacramento State (or another CSU), meet the foreign language proficiency graduation requirement, meet the state “code” requirements in U.S. History, American and California Government, and the writing intensive requirement. Students who have not completed an approved course for the “Race and Ethnicity in American Society” category at a community college must take a course in this category at Sacramento State. In addition, all transfer students, except those fully certified as having completed the IGETC or ADT core curriculum, must complete the required second semester composition course or an approved course at a community college.

For more information about IGETC requirements and/or Associate Degrees for Transfer, contact your community college counselor.

Second Bachelor’s Degree Requirements
Students who hold a bachelor’s degree from regionally accredited institutions of higher education may be admitted to a second bachelor’s degree program. Potential applicants should be aware that CSU policy restricts admission of applicants to second and subsequent baccalaureate degrees to critical need areas such as nursing, science, engineering, mathematics, or integrated teacher education programs (ITEP). In all other areas, an applicant may be admitted to a second baccalaureate only if capacity remains after all CSU eligible upper division transfer and first-time freshman applicants have been admitted. To be considered for admission, an applicant must have a minimum 2.5 grade point average in the last 60 semester units of baccalaureate and/or graduate level courses.

Graduation requirements are:
1. An overall grade point average of 2.5 is required in four areas:
   a. total courses
   b. Sacramento State courses as a second bachelor’s student;
   c. upper division courses applied to the major, and
   d. courses applied to the minor.
2. Complete the content requirements for the second degree as specified by the academic program. Units from the first degree may be counted, but a minimum of 24 upper division residence units (Sacramento State courses) in the major subsequent to earning the first bachelor's degree are required.

3. Complete a minimum of 30 units in residence at Sacramento State beyond the first bachelor's degree. Of the 30 units, 24 must be upper division in the major. Note: Former Sacramento State students who have completed 6 or more residence units will be held to 24 upper division units in the major and in residence. Extension and credit by examination units do not meet the residence requirement.

4. Submit a graduation application with approval from the department chair of the major in which they seek the degree. Advising for the major takes place within the department. Candidates must file for graduation TWO SEMESTERS prior to the date of graduation.

**Scholarship**

Second bachelor's degree candidates are expected to achieve a minimum Sacramento State and overall cumulative grade point average of 2.5 each semester to maintain good academic standing, the same as unclassified graduate students. Students are subject to academic probation the first term the student's term and overall grade point average is below 2.5. While on academic probation, if the student's subsequent term and overall grade point remain below a 2.5, the student will be academically disqualified. A student will be academically disqualified immediately if the overall cumulative grade point average is below 2.0.

Students who meet grade point average requirements stated above will be placed on Academic Warning if they earn a "NC", No Credit, grade in a semester. Grades of "NC" earned in subsequent consecutive semesters will result in Academic Probation, Continued Probation or Disqualification, depending upon the number of "NC" grades earned and the semester grade point average.

Registration priority for students pursuing a second baccalaureate is that of an unclassified graduate student. A second bachelor's degree cannot be awarded in the same major as the first bachelor's degree or in any closely-related field.

**Catalog Rights**

Undergraduate students maintaining attendance in any combination of California community colleges and campuses of the California State University receive "catalog rights" in the election of regulations determining graduation requirements. Students may elect the requirements in effect at

1. the year they began their study at a California community college or CSU campus OR
2. the year they entered Sacramento State OR
3. the year they graduate from Sacramento State

Attendance is defined as enrollment in at least one semester or two quarters in each calendar year. Once catalog rights are established, absence related to an approved educational leave or for attendance at another accredited institution is not to be considered an interruption, providing the above attendance criteria are met and the absence does not exceed two years. While catalog rights hold degree requirements, they do not shield students from changes in prerequisites required in a given course. Prerequisite requirements, which all students must follow, are those stated in course descriptions in the current catalog. The only exceptions to this are in cases in which the addition of course prerequisites also increases the number of units required in the major and minor. In these cases, students are encouraged to meet current course prerequisites, but are not required to do so.

1. **Note**: Regional Accrediting Associations include the Associations of Colleges and Schools of the New England, Middle States, North Central, Northwest, Southern and Western regions.

2. See also Registration/Leaves of Absence.

**Overlapping Credit**

**Undergraduate**

The University allows course credit to overlap completing major and minor requirements, provided that minimum University policy has been met with regard to content requirements and total units. For the Bachelor of Arts degree, a major requires a minimum of 24 non-overlapping units of which 12 must be upper division.

For the Bachelor of Science degree, a major requires a minimum of 36 non-overlapping units of which 18 must be upper division. Any remaining units may be used for a second major or a minor.

1. See also Baccalaureate Degree Requirements/Overlap between General Education and Majors/minors.

**Postbaccalaureate Credit Earned as an Undergraduate**

The University will allow Sacramento State undergraduate students to petition to receive postbaccalaureate credit for courses in excess of all undergraduate degree requirements (major, minor, general education, total units, residence) if they are taken in the semester of graduation and students have a cumulative GPA of 2.75 or better. No more than six units can be applied towards a master's degree. If approved, credit will be designated as "graduate credit" toward a master's degree or credential and is discounted from undergraduate statistics and honors calculations. Sacramento State students seeking approval to use excess units toward a master's degree must submit a “Petition for Exception” to the Office of Graduate Studies during the last semester of undergraduate enrollment. Petitions must be filed with the Graduate Studies Office prior to graduation.

**Application for Graduation**

Graduation and Degree Advising Office
Office of the University Registrar
Lassen Hall, Room 2000
(916) 278-1000

Students must apply for graduation. Academic degrees are not granted automatically when students complete their degree requirements.

Students are eligible to file a bachelor's degree application one semester prior to graduation once they have completed a minimum of 85 units. Refer to the Graduation and Degree Advising Office Graduation Website (http://www.csus.edu/registrar/graduation/), for filing procedures and timelines. Notification via email is sent when the graduation evaluation is completed by the Graduation and Degree Advising Office. Graduating seniors may contact the Degree advisors in the Office of the University Registrar to discuss their Graduation Evaluation and any remaining degree requirements.
Posting of Degrees
After grades become available for the semester of requested graduation, the Graduation and Degree Advising Office will review the Graduation Evaluation for completion of all degree requirements. Those completing all requirements will have their degree major/minor and date of completion posted to their official academic transcript of record. Diplomas are mailed to students approximately two months after final semester grades become available. Students attending graduation ceremonies do so as candidates for the degree. The degree is conferred only after all degree requirements have been completed, and the diploma and transcript of record reflect that semester’s graduation date. Students who have not completed all requirements will be notified by email and should contact the Degree Evaluations Office for assistance in developing plans for degree completion. Degree Advisors are available for assistance at all stages of the graduation process.

Notes:

• A student may not register for the semester following his/her intended graduation unless the intended degree date is canceled or changed, or the student has applied for and has been admitted to Sacramento State as a graduate student. Students may change their graduation date on their graduation application via their Student Center or by completing a Bachelor’s Degree Date Change form available online at the Student Service Center.

• Participation in the commencement ceremony does not constitute graduation. Degrees are conferred only after all requirements have officially been cleared.

Graduating in Absentia
Students who have fulfilled the degree residence requirements may be permitted to complete final requirements at other regionally accredited colleges or universities by petitioning to graduate “in-absentia.” Approval to graduate in absentia must be requested in advance. Major or minor course substitutions are to be approved by the appropriate academic departments, and general education courses must be approved through the Degree Evaluations Office. Approval for graduation in-absentia will hold catalog requirements and degree candidacy for one year.
GRADUATE DEGREE REQUIREMENTS

Office of Graduate Studies
River Front Center 215
(916) 278-6470
www.csus.edu/graduate-studies (http://www.csus.edu/gradstudies/)

Institutional Graduate Learning Goals
The campus has articulated minimum learning requirements for recipients of graduate degrees. For each Institutional Graduate Learning Goal, students are expected to achieve a level of competency associated with an advanced degree, as appropriate to the discipline. In addition, each program may set Program Learning Goals and Outcomes that are mapped onto the curriculum and assessed.

Institutional Graduate Learning Goals for Masters Programs
1. Disciplinary knowledge: Master, integrate, and apply disciplinary knowledge and skills to current, practical, and important contexts and situations.
2. Communication: Communicate key knowledge with clarity and purpose both within the discipline and in broader contexts.
3. Critical thinking/analysis: Demonstrate the ability to be creative, analytical, and critical thinkers.
4. Information literacy: Demonstrate the ability to obtain, assess, and analyze information from a myriad of sources.
5. Professionalism: Demonstrate an understanding of professional integrity.
6. Intercultural/Global Perspectives: Demonstrate relevant knowledge and application of intercultural and/or global perspectives.

Institutional Graduate Learning Goals for Doctoral Programs
All of the above Institutional Graduate Learning Goals for Masters Programs, with the addition of:
7. Research: Conduct independent research resulting in an original contribution to knowledge in the focused areas of their graduate program.

General Program Requirements

Master’s Degree Unit Requirements
Each master’s degree program must include a minimum of 20 approved units in the major subject area. These shall normally include a minimum of 18 units in a 30-40 unit degree program and 36 units in a 60 unit degree program of regularly scheduled 200-level courses requiring student participation as the primary instructional method and seminar courses requiring formal presentations by students. Units earned for thesis or project may contribute toward establishing the major, but they are not permitted in the required units in 200 level seminar courses. No more than 6 units of 295, 299, or non-seminar courses may be counted as graduate credit. However, the minimum units for some master’s programs may be higher, for example:

- Master of Science in Counseling requires minimum of 60 semester units
- Master of Business degree requires from 31 to 52 semester units of approved graduate credit depending upon the student’s background in business at the time of admission
- Master of Social Work degree requires minimum of 60 semester units

Doctoral Degree Unit Requirements
The Doctor of Education degree requires a minimum of 60 semester units of approved graduate coursework. This must include a minimum of 48 units of regularly scheduled doctoral courses organized primarily for doctoral students. Units earned for the qualifying examination, or dissertation should not exceed 12 units and may contribute toward the major, but they are not permitted in the required 48 unit minimum. An oral defense of the dissertation is required.

The Doctor of Physical Therapy degree requires at least 90 semester units earned in graduate standing. At least 72 semester units required for the degree shall be in courses organized primarily for doctoral students, and the remaining units required for the degree shall be in courses organized primarily for doctoral students or courses organized primarily for master’s and doctoral students. No more than eight semester units shall be allowed for the doctoral project and an oral defense of the doctoral project shall be required.

Graduate Transfer Credit
Graduate transfer credit (with a grade of “B” or better) toward a doctoral or master’s degree at Sacramento State may be considered only if the coursework has not been used previously to complete another degree and the coursework must be current (within the time limit to complete the master or doctoral degree). A maximum of 6 units may be transferred as determined by appropriate campus authorities.

Master’s Degree Academic Residence Requirements
A minimum of 21 approved semester units in 100-, 200-, and 500-series offerings in a 30-unit Master’s program must be earned in residence at Sacramento State. Three-hundred-level (methods) courses, student teaching, extension courses offered by Sacramento State, or work completed at other accredited institutions do not meet residence requirements.

Doctoral Degree Academic Residence Requirements
A minimum of 42 approved semester units in the 600 series in a 60 unit Education Doctoral program must be earned in residence at Sacramento State. For the Doctor of Physical Therapy program, No fewer than 60 semester units shall be completed in residence at Sacramento State. At the discretion of the appropriate campus authority, courses required for the DPT that are completed at another CSU campus may apply toward the residency requirement.

Graduate Writing Assessment Requirement (GWAR)
All students must demonstrate competency in writing skills as a requirement for graduation. Writing proficiency at the graduate level will be demonstrated by successful completion of the graduate program requirements. Students’ preparedness for graduate level writing is demonstrated by successful completion of a Graduate Writing Intensive (GWI) course(s) in their discipline within their first two semesters of

1 See Time Limit for more information.

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A minimum of 21 approved semester units in 100-, 200-, and 500-series offerings in a 30-unit Master’s program must be earned in residence at Sacramento State. Three-hundred-level (methods) courses, student teaching, extension courses offered by Sacramento State, or work completed at other accredited institutions do not meet residence requirements.

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Graduate Writing Assessment Requirement (GWAR)
All students must demonstrate competency in writing skills as a requirement for graduation. Writing proficiency at the graduate level will be demonstrated by successful completion of the graduate program requirements. Students’ preparedness for graduate level writing is demonstrated by successful completion of a Graduate Writing Intensive (GWI) course(s) in their discipline within their first two semesters of

1 See Time Limit for more information.
coursework at California State University, Sacramento. Students must earn a grade of "B" or above in GWI course(s) in order to advance to candidacy. Failure to demonstrate writing proficiency in a timely fashion may result in a student's declassification from a degree program and require an application for readmission to the University.

Foreign Language
A reading knowledge of a foreign language may be required in some liberal arts areas. Students should consult their Graduate Coordinator to determine if foreign language requirements apply in the particular field in which they plan to take the doctoral or master's degree.

Advancement to Candidacy

Advancement to Master's Candidacy
Each student who plans to become a candidate for a master's degree is required to do the following:

1. be admitted to classified graduate standing in the graduate degree curriculum for which candidacy is sought;
2. complete at least 40 percent of the graduate degree coursework and meet any special departmental requirements in the field in which they propose to take the degree; and
3. file an application for advancement to candidacy for the master's degree.
   a. Must be submitted to the Office of Graduate Studies by October 1 for the spring semester and February 1 for the fall semester in order to register for Culminating Experience during priority registration.
   b. The Office of Graduate Studies will review the petition and process results within six to eight weeks.

Eligibility for advancement to candidacy is based upon the following:

1. Scholarship in undergraduate and graduate work taken prior to advancement as follows:
   a. A satisfactory undergraduate preparation for admission to classified graduate standing in the graduate degree program.
   b. A minimum cumulative grade point average of 3.0. No grade below a "B" may be counted toward the degree requirement unless expressly permitted by a campus-approved graduate programs' written policies.
   c. A total of 18 units of 200-level seminar courses must be listed.
   d. No more than a total of six units of 295, 296, or 299 may be counted toward the degree.
2. Evidence of a plan of graduate study acceptable to the institution and the faculty concerned.
3. Successfully fulfilled the Graduate Writing Assessment (GWAR) requirement.
4. Fulfilled the Graduate Writing Assessment (GWAR) requirement.

Advancement to Doctoral Candidacy
Initiation of advancement to candidacy procedures is the responsibility of the student. Each student who plans to become a candidate for the doctoral degree is required to do the following:

1. be admitted to classified standing in the doctoral degree program in which candidacy is sought;
2. have completed all coursework to qualify for the Qualifying Examination with a B or better in each course and a minimum cumulative grade point average of 3.0 in all courses taken;
3. successfully passed the written and oral Qualifying Examination by Unanimous agreement of the qualifying examination committee;
4. file an application for advancement to candidacy for the doctoral degree at the Office of Graduate Studies.
   a. Must be submitted to the Office of Graduate Studies by February 1 for eligibility to enroll in dissertation units for the Summer term.
   b. The Office of Graduate Studies will process within four to six weeks.

Eligibility for advancement to doctoral candidacy is based upon the following:

1. Scholarship in doctoral work taken prior to advancement as follows:
   a. Satisfactory completion of any preparation coursework required for admission to classified graduate standing in the doctoral degree program.
   b. A minimum cumulative grade point average of 3.0. No grade of less than "B" can be counted toward the minimum number of units needed to advance to candidacy.
   c. A total of 48 units of 600-level seminar courses must be listed.
2. Evidence of a plan of graduate study acceptable to the institution and the faculty concerned.
3. Successfully fulfilled the Qualifying Examination requirement.
4. Fulfilled the Graduate Writing Assessment (GWAR) requirement.

Culminating Experience Requirement

Master's Culminating Requirement
A thesis is required under Plan A, a project is required under Plan B, and a comprehensive examination is required under Plan C. Students are eligible to enroll for full or partial credit for their theses or projects at any time after being advanced to candidacy, subject to approval by their faculty advisors. Credit is granted upon completion.

Each department offers one or more or a combination of the following plans:

Plan A: Thesis
A thesis is the written product of the systematic study of a significant problem. It clearly identifies the problem; states the major assumptions; explains the significance of the undertaking; sets forth the sources for, and methods of gathering information; analyzes the data; and offers a conclusion or recommendation. The finished product must evidence originality, critical and independent thinking, appropriate organization and format, clarity of purpose, and accurate and thorough documentation. Normally an oral defense of the thesis will be required.

Plan B: Project
A project is a significant undertaking of a pursuit appropriate to the fine and applied arts or to professional fields. It must evidence originality and independent thinking, appropriate form and organization, and a rationale. It must be described and summarized in a written abstract that includes the project's significance, objectives, methodology, and a conclusion or recommendation. An oral defense of the project may be required. Some samples of types of projects are outlined below:

1. A Creative Project in the Arts: an original contribution to the verbal, visual, or performing arts. Examples include a music recital; a musical composition; a completed novel or play; a completed collection of short stories or poems; direction of a theatrical production; a gallery showing of works of art.
2. A Curriculum Project: a project that contributes to a field of teaching by enhancing communication of a subject matter. Examples include a course of study; a teacher's guide; an instructional manual; a
design for a new teaching method; the development of new teaching materials.

3. A Research Project: a project which contributes to the physical sciences, natural sciences, social sciences, humanities, or the professions, by adding to technical/professional knowledge in the professional field. Examples include building a device; designing an experiment; a field study; a case study; a documentary report; a professional article of publishable quality.

The fulfillment of any of the above culminating requirements must conform to the appropriate requirements of the Sacramento State Thesis and Project Format Requirement Guides.

Plan C: Comprehensive Examination

A comprehensive examination should test the range of subject matter covered in the student’s graduate program. The department may opt for an examination that is written, oral, or a combination of written and oral. Ordinarily the examination will be given in the student’s last semester before the student plans to receive the degree, and in no instance can a student who has not been advanced to candidacy take the examination.

At least three examiners must certify to the success or failure of the student in the examination. A simple majority determines whether the student has passed or failed. The results of the examination must be submitted to the Office of Graduate Studies on the “Report of Comprehensive Examination” form. A student may repeat the examination once after a failure, provided that at least four calendar months have lapsed since the previous examination. A third trial is not allowed unless extreme extenuating circumstances are demonstrated by the department and approved by the Dean of Graduate Studies.

This culminating experience option cannot be changed once the initial examination has been administered.

Doctoral Culminating Requirement

A qualifying examination, proposal examination, dissertation (Ed.D.) or doctoral project (DPT, AUD), and oral defense are required for the doctoral degree at Sacramento State.

Qualifying Examination

The qualifying examination is designed to provide evidence toward validation of the candidate’s advanced training in educational leadership. The student must unanimously pass the qualifying examination prior to advancing to doctoral candidacy and enrolling in dissertation units.

At least three examiners must certify to the success or failure of the student in the examination, and the results of the examination must be submitted to the Office of Graduate Studies on the “Report of Qualifying Examination” form. A unanimous decision on passing is required. A student may repeat the examination once after a failure, provided that at least four calendar months have lapsed since the previous examination. A third trial is not allowed unless extreme extenuating circumstances are demonstrated by the department to the Dean of Graduate Studies.

Proposal Examination

The doctoral proposal will normally contain a description of the problem, a review of the relevant literature, a statement of the research question, and a description of the research methodology or approach to explore the problem. The proposal must contain either (i) materials already submitted to the Institutional Review Board regarding the proposed dissertation research or (ii) materials completed for submission to the Institutional Review Board to meet human subjects’ requirement.

1. The dissertation proposal examination is normally conducted by a three faculty member committee. A written report will be provided by the committee members to communicate: (1) approval; (2) approval with modifications, or (3) lack of approval.

2. The results of the doctoral proposal examination will be communicated to the Office of Graduate Studies on the “Report of Doctoral Proposal Examination” form. The form shall be accompanied by a copy of the dissertation or doctoral project proposal.

The Dissertation Proposal (Ed.D.) shall identify the research problem and question(s), state the major theoretical perspectives, explain the significance of the undertaking, relate it to the relevant scholarly and professional literature, set forth the appropriate sources for and methods of gathering and analyzing the data. An oral defense before a three member doctoral proposal committee is also required.

The Doctoral Project Proposal (DPT) must demonstrate students’ understanding of the application of current evidence-based practice in a multicultural and complex health care environment. The proposal must be of sufficient rigor to ensure students’ demonstrations of critical and independent thinking and abilities to interpret the research literature and apply to current physical therapist practice. The proposal includes a written document with the following chapters: General Background, Case Background Data, Examination Tests and Measurements, Evaluation, Plan of Care-Goals and Interventions, Outcomes, and Discussion. An oral defense before a three member doctoral proposal committee is also required.

The Doctoral Project Proposal (AUD) must demonstrate originality, evidencing students’ critical and independent thinking. It shall be organized in an appropriate form and shall identify the research problem and question(s), state the major theoretical perspectives, explain the significance of the undertaking, relate it to the relevant scholarly and professional literature, identify the methods of gathering and analyzing the data. An oral defense before a three member doctoral proposal committee is also required.

Dissertation (Ed.D)

A dissertation shall be the written product of systematic, rigorous research on a significant professional issue. The dissertation is expected to contribute to an improvement in professional practices or policy. It shall evidence originality, critical and independent thinking, appropriate form and organization, and a rationale.

The dissertation shall identify the research problem and questions(s), state the major theoretical perspectives, explain the significance of the undertaking, relate it to the relevant scholarly and professional literature, set forth the appropriate sources for and methods of gathering and analyzing data, and offer a substantiated conclusion or recommendation(s). It shall include a written abstract that summarizes the significance of the work, objectives, methodology, and a conclusion or recommendation(s). All members of the dissertation committee must approve the written work.

Project (DPT)

The Doctoral Project/Culminating Experience may include evidence-based practice projects, clinical research projects, or case reports consistent with the Chancellor’s Office Executive Order. Culminating events must demonstrate students’ understanding of the application of current evidence-based practice in a multicultural and complex health care environment. They must be of sufficient rigor to ensure students’ demonstrations of critical and independent thinking and abilities to interpret the research literature and apply to current physical
The doctoral project includes a written document with the following chapters; General Background, Case Background Data, Examination Tests and Measurements, Evaluation, Plan of Care-Goals and Interventions, Outcomes, and Discussion.

Project (AUD)
The doctoral project shall demonstrate the student’s doctoral-level mastery of research skills, hearing science and/or current evidence-based practice. It shall demonstrate critical and independent thinking and a command of the research literature. The written component of the doctoral project shall demonstrate originality, evidencing critical and independent thinking. It shall be organized in an appropriate form and shall identify the research problem and question(s), state the major theoretical perspectives, explain the significance of the undertaking, relate it to the relevant scholarly and professional literature, identify the methods of gathering and analyzing the data, analyze and interpret data and offer a conclusion or recommendation.

Oral Defense
An oral defense of the dissertation or project is required. The student must notify the Office of Graduate Studies of his/her intent to defend the dissertation/project 30 days prior to the defense. A notice of the date, time, and place of the defense must be posted in a public place for 14 calendar days prior to the dissertation oral defense. The notice should include the title of the dissertation/project and a brief 150 word abstract.

Graduate and Post-Baccalaureate Academic Action Categories
Graduate and Post-baccalaureate Academic Action Categories listed below do not apply to post-baccalaureate students pursuing a second bachelor’s degree.

Good Standing
Graduate, credential, certificate and unclassified students whose Sacramento State and cumulative grade point average (GPA) is 3.0 or above are considered in good academic standing.

Academic Probation
Students whose cumulative Sacramento State grade point average or overall grade point average falls below 3.0 will be placed on academic probation. Students on probation are eligible to enroll in the subsequent semester.

Continued Probation
Students on probation will be placed on Continued Probation if they:

• earn a 3.0 in the semester, but have a Sacramento State GPA and/or overall GPA below 3.0.

Students placed on Continued Probation will be limited to a maximum course load of 9 units per semester until they return to academic good standing.

Academic Disqualification
If a graduate, credential, certificate, or unclassified student is on academic probation and the Sacramento State or cumulative grade point average is below 3.0 for the active term, the student will be academically disqualified.

Students not on probation will be disqualified if the Sacramento State or cumulative GPA is 2.0 or less.

Disqualified students will not be allowed to register unless they are formally reinstated and/or readmitted to the University.

Administrative Probation and Administrative Disqualification
Graduate, credential, certificate, and unclassified students are subject to Administrative Probation for the following reasons:

1. Withdrawal from all or a substantial portion of their courses in two successive terms or in any three terms.
2. Repeated failure to progress toward a degree or other program objective, when such failure is due to circumstances within the control of the student.
3. Failure to comply, after due notice, with an academic requirement or regulation.

Students who do not meet the conditions for removal of administrative probation may be subject to further administrative actions, including Administrative Disqualification.

Notification
The Office of the University Registrar will notify students of their academic status (academic probation, continued probation, or academic disqualification) by letter, My SacState message, and/or email at the end of each semester. Graduate, credential, certificate, and unclassified students on Probation or Continued Probation are required to meet with an advisor in their major department, the credential office or the Office of Graduate Studies. Academic departments and units may block registration of students who fail to meet advising appointments. Students receiving veterans' educational benefits may be ruled ineligible for continued benefits if, after one semester of unsatisfactory achievement (prohibition or disqualification), they do not return to academic Good Standing at the completion of the next semester.

Reinstatement of Disqualified Students
Students who have been academically disqualified may petition for reinstatement. The Petition for Reinstatement is obtained from the Office of Graduate Studies. If reinstated, students will be placed on an academic contract that may stipulate maximum units, specific courses and achievement levels. Failure to meet the conditions of the reinstatement contract and/or failure to achieve a subsequent semester GPA of 3.0 or higher will result in academic disqualification.

Students who are administratively disqualified or not recommended by their academic department for continuation in the graduate degree, credential, or certificate program must formally apply to the University as well as a graduate degree, credential, or certificate program and submit a petition for reinstatement. Reinstated unclassified students will not be allowed to enroll in graduate level courses during the period of the reinstatement contract without the permission of the department chair or designee for that major.

Deadlines to petition for immediate reinstatement are as follows:

• Third week of January for Spring Semester
• End of June for Fall Semester

NOTE: Please check the Office of Graduate Studies Web site www.csus.edu/graduate-studies (https://www.csus.edu/graduate-studies/) for specific dates and forms.

Students whose petitions are approved are subject to review each semester until the Sacramento State GPA and overall cumulative GPA
reach the minimum standard of 3.0. Students may not earn the degree, credential, or certificate unless they are in good academic standing and their Sacramento State GPA and overall cumulative GPA reach the minimum standard of 3.0.

**Continuous Enrollment**

Classified graduate, post-baccalaureate, credential, or certificate students normally retain rights to the catalog and/or degree program requirement under which they were classified, providing they remain continuously enrolled. Students who do not stay continuously enrolled lose classified graduate standing or post-baccalaureate standing and will be required to apply for readmission. Such students may be required to fulfill additional program and/or university degree requirements that are current at the time of readmission.

**Continuous Enrollment (599) During the Culminating Experience**

Graduate students who have been advanced to candidacy and who have completed all coursework can maintain the required active degree program status without additional University registration by enrolling in “599 Continuous Enrollment.” There are no units associated with this enrollment, but a continuous enrollment fee equal to one unit is required. The fee is paid through the College of Continuing Education. Such enrollment is valid as long as the student is within the time period allowed for the completion of the culminating experience requirement.

**Continuous Enrollment (599) for the Master’s Degree**

If not otherwise actively registered at the University, students completing a thesis, project, or comprehensive exam who did not complete the culminating work in the semester of original enrollment must enroll in “599 Continuous Enrollment” and pay the associated 599 enrollment fee. Students may be allowed up to a maximum of three semesters of 599 enrollment beyond the semester of original enrollment to complete the culminating requirement according to the requirements of the graduate program.

Students who do not finish the master’s thesis/project/comprehensive exam within the semester of original enrollment will receive a grade of “RP” provided satisfactory progress has been made toward completion of the culminating experience. The “RP” grade will remain as long as progress is made toward completion and “599 Continuous Enrollment” is maintained in the subsequent semester(s).

If the student does not complete the culminating experience within the total allowable semesters, a No Credit (“NC”) grade will be assigned for the original units. The “NC” remains as part of the academic record. If the five-year deadline for the Ed.S. or doctoral degree program has not expired, the student must re-enroll in the culminating experience units within the next semester and pay University fees before continuing the program. Failure to maintain continuous enrollment will result in the need to file an admission application and all related fees during the next available open admission cycle. Students may be required to fulfill additional program and/or university degree requirements that are current at the time of readmission.

**Time Limit**

All requirements for the master’s degree must be completed within seven (7) years immediately prior to graduation.

All requirements for the doctoral degree must be completed within five (5) years immediately prior to graduation.
ACADEMIC SUPPORT SERVICES

Advising

General Education Advising
Lassen Hall 1013
(916) 278-1000
www.csus.edu/acad (http://www.csus.edu/acad/)

Effective intentional academic advising is essential to accomplishing the University's instructional mission. Through collaboration and academic guidance, the Academic Advising Center fosters a developmental process of assisting undergraduate students in clarifying and achieving their personal, professional, career and educational goals. Students are encouraged, and in some circumstances, required to meet with a professional or faculty advisor at least once a semester.

Advisors help students:

- Understand the value of the University's General Education program, and the relationship of this program to individual interests and career objectives;
- Interpret and apply University policies;
- Ensure they are taking the courses for timely progress to degree; and
- Explore educational and career objectives compatible with their interests and abilities.

The ultimate responsibility for academic success rests with the student, who is expected to:

- Be aware of and comply with the University’s academic policies, procedures, and deadlines;
- Be familiar with the My Sac State Student Center including the KEYS to Degree toolbox;
- Meet regularly, at least once each semester, with an advisor in the major and an advisor in the Academic Advising Center.
- Declare/Change their major when appropriate. The form is available online at http://www.csus.edu/registrar/forms/.

Because of the relationship between proactive advising and academic success, first year and transfer students are required to attend New Student Orientation. In addition, first year students are required to complete advising during their first two semesters at Sacramento State. It is recommended that students also meet with advisors in their major. All students on academic probation are required to meet with an advisor in their department and all second-year students on probation are required to meet with the Academic Advising Center. Undeclared and Expressed Interest majors must officially declare a major before earning 60 units.

A complete list of the Academic Advising Center’s programs and services can be found at www.csus.edu/acad (http://www.csus.edu/acad/)

Faculty Advisor

Advisors in the academic departments help students select appropriate major courses each semester and are also helpful in exploring career options specific to their major or concentration.

New Student Orientation

University Union 2230
csus.edu/orientation (http://www.csus.edu/orientation/)
(916) 278-7841

Orientation is required for all new first year and transfer students. The program is designed to help students make a successful transition from their previous college or high school to Sac State. During Orientation, student orientation leaders meet with small groups of new students to discuss academic requirements, advising tools and offer helpful tips regarding campus resources and student life. In addition, new students meet with their major department advisors and register for courses. New fall students attend Orientation during the summer, while new spring students attend Orientation in January. Program details (including the Parent/Guest program) are located on the New Student Orientation website.

Specific Advisors

Student-Athlete Resource Center

Lassen Hall 3002
www.csus.edu/sarc (http://www.csus.edu/sarc/)
(916) 278-5431; (916) 278-7796

The Student-Athlete Resource Center (SARC) is designed to enhance the academic and overall life development experience for NCAA Division I student athletes at Sacramento State. The SARC assists student-athletes in pursuing and successfully completing a college degree while also preparing them for challenges and experiences after college. The Center provides Sacramento State student-athletes with a very comprehensive academic support system.

The SARC provides student-athletes with a variety of academic support and services from the outset of their academic careers at Sacramento State. It provides the student-athletes with opportunities to develop and improve their academic skills, as well as to receive exceptional advising on University policies and procedures, coursework, and career choices. In addition, the Center’s staff monitors the progress of each student-athlete towards completion of their degree in compliance with the academic bylaws mandated by the National Collegiate Athletic Association (NCAA). The SARC provides student-athletes with additional academic support in the forms of computer labs, individual tutoring, and specialized retention advising for student-athletes with additional academic needs. The Center also coordinates all of the activities associated with the NCAA/CHAMPS Life Skills Program. This nationwide program focuses on helping student athletes achieve in all areas of personal, academic, community, career, and athletic development.

The SARC Office and academic computer lab is open Monday through Friday from 7:30 a.m. - 4:30 p.m.

Undergraduate Business Advising Center

Tahoe Hall 1030
(916) 278-BIZZ (2499)
www.csus.edu/cba/ubac (http://www.csus.edu/cba/ubac/)

The Undergraduate Business Advising Center (UBAC) is part of the Office of Student Engagement in the College of Business. UBAC assists undergraduate business majors, expressed interest in business, and minors with program advising, graduation evaluations, and petitions relating to the major and/or minor.
Teaching Credentials Advising
Eureka Hall 437
(916) 278-6403
www.csus.edu/coe/offices-services/aero/advising (http://www.csus.edu/coe/offices-services/aero/advising.html)

The Advising, Recruitment, Retention, and Outreach (AERO) Services assists students who are interested in pursuing a career as an elementary, middle/junior high, high school, or special education teacher. The AERO advisors work with students on issues related to state and university requirements for credential programs, support for taking required exams, and information about scholarships and other sources of financial support available to teacher candidates. Students considering teaching as a career should visit this office during their first semester.

Student Service Center
Lassen Hall 1000
(916) 278-1000
www.csus.edu/ssc (http://www.csus.edu/ssc/)

The Student Service Center (SSC) at Sacramento State is a student’s one stop toward success. The Center provides multi-faceted assistance to students, alumni, faculty and staff. SSC staff are able to provide assistance in a variety of areas including financial aid, scholarships, tuition payment options, major and graduation requirements, and registering for courses. The Center also helps students access a myriad of other campus resources.

Our mission is to provide a welcoming and accessible environment that is dedicated to educating, supporting and developing student success by providing accurate, efficient and holistic information to the Sacramento State campus community.

The Student Service Center is open Monday – Friday from 8:00 AM – 5:00 PM. sacstatessc@csus.edu

Admission and Academic Support Programs
First Year Experience Programs
ARC 4002
(916) 278-2804
www.csus.edu/fye (http://www.csus.edu/fye/)

The First Year Experience Program
The mission of the First Year Experience Program (FYE) at Sacramento State is to improve the retention and graduation rates of native students, a goal that is directly aligned with the CSU system wide Graduation Initiative. FYE consists of:

1. the First Year Seminar course and University Learning Community course "clusters"
2. co-curricular activities embedded in the courses, that are designed to increase student engagement with the campus, community, faculty, and peers
3. Peer Mentors who attend courses with first year students, and provide personal, academic, and advising support
4. The FYE Space - #L1B3520 provides a space for first year college students to study, work in groups, meet their peer mentor, and find support. Students get support from peer mentors called the Go To Crew in the FYE Space

Enrollment in the University Learning Community Program (LCOM) and/or First Year Seminar Courses (FYS) occurs during New Student Orientation (http://www.csus.edu/orientation/First%20Year%20Orientation/) and during spring registration.

First Year Seminars
First Year Seminars provide students with an introduction to the nature and meaning of higher education and to the functions and resources of the University. Students in the class gain insights and develop tools that allow them to get the most out of their university education at Sacramento State. The seminars also provide students with the opportunity to interact with fellow students and the seminar leader, building a community of academic and personal support. Students who have taken the course do better academically than the general student population.

This introductory course satisfies the Area E General Education requirement. The course is listed under individual department names with the added designation of 21. For example, COMS 21 (Communication Studies) is a First Year Seminar, with specific information relevant to each major covered in more detail. Some of the First Year Seminars are stand-alone courses while others are part of a learning community.

The First Year Seminar is a 3 unit General Education (GE) Area E course where students explore the requirements and responsibilities of becoming a university educated person. Most FYS were paired with another course in the Learning Community, while the rest of FYS were “stand alone” (i.e. not paired with another course in a learning community).

Each First Year Seminar course shares the following characteristics:

- Small class sizes (capped at 30; lower cap for certain sections) to meet the needs of incoming first year students
- Use of the campus One Book for a common intellectual experience, common course description and learning goals, common class activities, assignments, and assessments aligned with Baccalaureate Learning Goals and GE Area E requirement
- Support for faculty to implement effective curricular activities (assignment descriptions, guest speaker lists, assessments, rubrics, all available online on SacCT/Blackboard)
- Opportunities for faculty professional development around teaching, learning and FYE programmatic research through an annual Convocation, annual curriculum workshop, and periodic faculty interest groups
- Support for embedding co-curricular activities (funding, coordination), including High Impact Practices
- Taught by both faculty and student affairs professionals, indicating the collaborative cross-divisional nature of the program
- Students learn how to access academic & personal support resources

The FYE Library Space
A designated academic location in Library 3520 (3rd floor) that is available primarily for first time college students called “The FYE Space.” Events are often held in the Space to introduce information to students, as well as celebrate achievements (“May One is Done!”) Students visit the Space to study, connect with faculty, meet with the FYE librarian, check-in with a Go To Crew peer mentor, or get support between classes. Workshops on writing, leadership, and major advising are offered throughout the semester. It was established to develop a space where First Year students could always connect with a community on campus.
Learning Communities
The Learning Communities program establishes connections between courses in different subject areas with General Education curricula. Each Learning Community consists of two to three classes, with faculty who try to link course topics, coordinating readings and assignments. Students who join a Learning Community are linked to other students enrolled in the same classes, helping students form connections with professors and other students that strengthen their networks of social and academic support. Learning Communities may also have a peer mentor to help students navigate the transition from high school to college.

Students admitted to Sacramento State do not need to meet any other admission criteria to join a Learning Community. New communities are formed each fall, and information about the semester’s Learning Community offerings is shared at summer First Year Student Orientation. More information is available on the First Year Experience website at http://www.csus.edu/fye

Honors Program
ARC 4002
(916) 278-2804

The General Education Honors Program at California State University, Sacramento offers qualified and highly motivated students an opportunity to have a challenging, innovative, and stimulating learning experience. Through small class sizes (around 25 students), students experience intimate classroom settings which promote discussion, integrative learning and a global perspective. The Program is open to incoming freshmen. We do not accept transfer students.

The Honors Program academic experience is composed of 45 units of Honors courses (36 lower division and 9 upper division). Honors students take at least 12 units per semester. During their freshman and sophomore years, Honors students will take three Honors courses per semester and the remaining course(s) can be filled with other courses required in their major or pre-major. Three upper division courses taken during their junior and senior year conclude the Honors experience. Completion of all Honors courses will fulfill Sacramento State General Education requirements for graduation with the exception of the lab science and freshman composition.

The core of the lower division curriculum is a three-semester Honors seminar in which students read some of the great books of world civilizations, analyze the writings of world thinkers and writers, and improve their skills in critical thinking and writing. The three upper division Honors courses are organized around the theme of learning and acting for the public good.

Honors students at Sacramento State experience individualized attention from dedicated professors, special seminars in their academic programs, extracurricular activities in the form of cultural events, various Honors Colloquia and interaction with faculty members and their fellow Honors students in and out of class. Students are strongly encouraged to study abroad through either short term programs developed specifically for the Honors Program, or semester or year long programs created for Sacramento State, and the CSU. They are also encouraged to complete an internship and an undergraduate research experience. A variety of Scholarships are available to support study abroad and other academic pursuits.

For further information and application instructions, visit the Honors Web site at www.csus.edu/honorsprogram (http://www.csus.edu/honorsprogram/).

Graduate Preparation Academy (GPA)
River Front Center 203
(916) 278-3834
E-mail: graddiversity@csus.edu
http://www.csus.edu/graddiv/

The Graduate Preparation Academy (GPA) is designed to prepare undergraduate students for admission and study at the graduate level. The GPA provides undergraduate students interested in pursuing a graduate degree with intensive graduate school preparation. Students selected to participate in the graduate school preparation academy will be provided with information and resources about participating in academic research, engaging with faculty mentors, preparing academically for graduate school, assistance with scholarship and fellowship opportunities, and graduate education entrance examinations through interactive speakers, panels, and workshops.

We offer a rigorous academic program that prepares students for the opportunities and challenges that face them in post-baccalaureate education. Participants are connected with a faculty member who will offer mentoring throughout the graduate school application process, feedback on essays, and other application materials. Participants are encouraged to participate in regional and national academic conferences to present their academic research.

McNair Scholars Program
River Front Center 203
(916) 278-5118
E-mail: mcnair@csus.edu (mcnair@csus.edu)
www.csus.edu/mcnair (http://www.csus.edu/mcnair/)

The Ronald E. McNair Postbaccalaureate Achievement Program is a federally funded program designed to prepare selected Sacramento State undergraduate students for admission and study at the doctoral level. Each year, 24 McNair Scholars participate in both academic year and summer activities.

Students who have obtained 45 units or more, have a GPA of 2.8 or higher and are low income and first in their family to attend college, or students who are considered underrepresented in their major (as defined by federal regulations) can gain research skills, knowledge, and information needed to complete doctoral degrees in their fields of study.

The academic components include: a three-unit research methodology course, meetings with the McNair Program staff and the faculty mentors to assess personal needs and review academic progress, and preparation for a summer research project. For students who have completed 60 units or more, the summer component includes enrolling in a one unit supervised research course and travel to select McNair Symposia where students have the opportunity to present their research findings. Scholars receive additional guidance from the McNair Faculty Coordinator and a faculty mentor in completing a published research article. Senior McNair scholars complete a 3-unit senior seminar which provides assistance with selecting, applying, and financing graduate studies.

Stipends for travel to doctoral institutions and research conferences to present research papers are granted to students who complete their research projects. McNair scholars also receive a stipend as part of
their participation in the summer research experience. Scholars are encouraged to participate in statewide and national conferences to present their research findings.

**Business Based Educational Equity Program (BEEP)**

Tahoe Hall 1006  
(916) 278-5875  
http://csus.edu/cba/biz/index.html

The Business Educational Equity Program (BEEP) encourages and supports all students who major in business. BEEP also known as the Business Tutoring & Study Center, provides peer-assisted tutoring and a place to study where one-on-one and group assistance is available for business students seeking academic support in numerous lower and upper division business courses. Tutoring is provided on a drop-in basis for business students, and at no charge. All business students interested in the program should contact the College of Business, Office of Student Engagement at (916) 278-5875 or visit the office in Tahoe Hall 1030.

**Cooper-Woodson College**

Amador Hall 460  
Director: Dr. Boatomo Mosupyo  
(916) 278-5363  
www.csus.edu/cooper

Cooper-Woodson College Enhancement Program (CWC) emphasizes scholarship, leadership, and service by creating a supportive and nurturing learning environment that is responsive to the needs of students. Although the program is patterned after traditional relationships between students and faculty at historically Black colleges and universities, it serves students from all backgrounds. Faculty, staff, and community members assume the responsibility for shaping and guiding students through the college experience. Key objectives of CWC are the retention of students and the development of leaders.

CWC scholars, staff, faculty, and members of the community organize and participate in the following activities/events: Faculty/Staff Mentoring Program, African-American History Month rally and lectures, the annual Anna J. Cooper and Carter G. Wood lectures, and the annual African-American graduation celebration ceremony.

**MESA Engineering Program (MEP)**

Santa Clara Hall 1213  
(916) 278-6699

Participation in the MESA Engineering (MEP) increases the probability that students will be successful in their engineering college studies. Focusing on the recruitment, retention, and graduation of highly motivated students from educationally disadvantaged backgrounds, MEP emphasizes participation by students from communities with low rates of enrollment in engineering majors.

The MEP program provides an on-campus home for its members with a large 24 hours-a-day study center that encourages study groups. MEP provides professional development, a freshman orientation course, and personal academic advising. It assists in the coordination of tutoring services for all students in the College of Engineering.

**Science Educational Equity (SEE)**

Sequoia Hall 315  
(916) 278-6519

The Science Educational Equity (SEE) program is a comprehensive academic support program designed for students who face social, economic, or educational barriers that limit access to careers in the sciences and health professions. Students are encouraged to form study groups for both lower and upper division coursework. Science faculty provide academic and pre-professional advising for each student and are available for career guidance and assistance with course material.

Students attend professional conferences, participate in academic workshops and seminars, and are encouraged to attend summer enrichment programs at other universities and laboratories. The program provides assistance with applications to graduate programs, health professional schools, and summer enrichment programs. SEE also provides students the opportunity to meet and interact with faculty, community members, and other students.

All students interested in becoming a part of the SEE program are expected to demonstrate a commitment to the community through service to SEE, the University, and/or the Sacramento community. Upon entry to the program, each student is required to meet with an academic major advisor to develop a comprehensive academic plan; it is the student's responsibility to schedule an advising appointment each semester thereafter to update the academic plan.

**Center for College and Career Readiness (CCR)**

http://www.csus.edu/ccr

The Center for College & Career Readiness (CCR), a division of Academic Affairs, is the principle campus resource for everything "College and Career Ready." Our success comes from building and developing intersegmental educational partnerships throughout the greater Sacramento Region. Using a collective impact infrastructure, CCR focuses on establishing a continuous pipeline from preschool to bachelor's degree; ensures that high school graduates enter Sacramento State better academically prepared to succeed at the university level; and, provides readily available resources and timely interventions for current and future students.

Programs within the Center for College and Career Readiness include:

- The **Early Assessment Program (EAP)** serves as an 'early readiness signal' allowing for the placement of students in corresponding K-12 courses to fortify the academic and metacognitive skills needed for transition success. The EAP is responsible for the development of intersegmental curriculum in mathematics and English, as well as teacher professional development.

- The **EAP Senior Year Mathematics (ESM) Course** is the result of a regional partnership involving teams of mathematics faculty from higher education, high school teachers, and county offices of education. This course is designed to strengthen students' mathematical foundation, and deepen their conceptual understanding of mathematical theory, skills and strategies.

- The **Expository Reading and Writing Course (ERWC)** prepares college-bound seniors for the literacy demands of higher education. Students in this yearlong, rhetoric-based course develop advanced proficiencies in expository, analytical, and argumentative reading and writing. Students will be expected to increase their awareness of the rhetorical strategies employed by authors, and to apply those strategies in their own writing.

The CCR works closely with local middle schools, high schools, and community colleges to create opportunities for students to gain the life
and academic skills necessary for college success and future career aspirations. We strive to engage with each of the 215 high schools in our service area. Our programs include:

- **Middle School Outreach:** provides sixth, seventh, and eighth grade students the opportunity for early self-identification as a college student or career professional.
- **CCR Summer Boot Camp:** provides incoming high school juniors the opportunity to explore college and career readiness skill sets from both a metacognitive and academic perspective.
- **CCR High School Outreach:** provides onsite workshops, presentations, and campus visits for high school students, informing them of the importance of using their junior and senior years proactively, tips for choosing a college and a major, and how to avoid remediation.
- **Transition to Success Program (TSP):** assists incoming freshman in making a smooth transition to Sacramento State by providing customized mentoring, social emotional support, and a ‘home base’ until graduation.
- **TSP Peer Coaches:** provide current TSP students with the opportunity to serve as peer coaches to high school sophomores; coaches receive a stipend and professional development.

### Centers for Student Support

**Student Academic Success and Educational Equity Programs (SASEEP)**

The Student Academic Success and Educational Equity Programs are committed to fostering diversity and equity while promoting a campus learning environment that encourages and supports all students in persisting toward their educational goal by increasing their retention and graduation rates. This is accomplished through the unified effort of the following programs: the College Based Educational Equity Programs (CBEEP), the Dedicated to Educating, Graduating, and Retaining Educational Equity Students (DEGREES) Project, the Educational Opportunity Program (EOP), the Summer Bridge Academies, the Project Excellence, Retention, and Success in Student Trajectories (PERSIST) Program (FSMP), the Guardian Scholars Program (GSP), the Martin Luther King, Jr. Scholars Program (MLK), the Male Empowerment Collaborative (MEC), the Parents and Families Program (P&F), the Paving Excellence, Retention, and Success in Student Trajectories (PERSIST) Program, the Peer and Academic Resource Center (PARC), the First Generation Student Institute (FGI), U-Mentor, Improve Your Tomorrow (IYT), the Native Scholars Transition Program, and Partnerships for Advancing the Value of Education (PAVE). These programs and services are designed to build upon the dreams and aspirations of our campus community – our students, faculty, and staff, our alumni, and the people of our region.

The Student Academic Success and Educational Equity Programs are guided by the following primary goals:

1. **Access and Equity**
   To provide underrepresented students with access to a higher education and supportive services that are designed to enable them to persist through the college experience.

2. **Recruitment and Transition**
   To aid students in their transition to college life through pre-college equity services and assistance in navigating the higher education experience.

3. **Retention and Graduation**
   To provide a comprehensive range of retention and progress to degree services (e.g., academic advising, tutoring, mentoring, coaching, & counseling, etc.) to underrepresented students in the Unit to facilitate their graduation.

### The Parents & Families Program

**Lassen 2205**
Haley.Myers@csus.edu; parentsfamilies@csus.edu
916-278-4353
Family Helpline: 916-278-3399

The Parents & Families Program supports pregnant and parenting students, as well as parents and family members of enrolled students. Communications, events and customer service inform and involve students and families, and generate support and goodwill for the campus community and beyond.

Highlights of the program include monthly Town Hall Zooms for parents and the Parent Ambassadors, a group of specially-trained parent volunteers; expanded support services for students-with-children, including advising for student-parents and pregnant students, and the Hornet Family Study Care Grant, which pays half of Pell-eligible student-parents’ out-of-pocket childcare costs. See www.csus.edu/parents (http://www.csus.edu/parents/) for more information.

### College Assistance Migrant Program (CAMP)

**River Front Center 1**
(916) 278-7241

**Director:** Eric Perez
www.csus.edu/camp (http://www.csus.edu/camp/)

CAMP is a unique federally funded educational program that helps students from migrant and seasonal farmworker backgrounds succeed at Sacramento State. CAMP facilitates the transition from high school to college and offers first-year support services to develop the skills necessary to persist and graduate from college. CAMP strives to be “a home away from home” for its students.

**CAMP offers:**

- Early outreach and recruitment services
- Personal, academic and career counseling
- Tutoring and academic skill building instruction and assistance
- Assistance with special admissions
- Health services
- Assistance in obtaining student financial aid
- Housing support for students living in institutional facilities and commuting students
- Exposure to cultural events, academic programs, and other educational/cultural activities not available to migrant youth
- Internships
- A "home away from home" environment
- Follow-up services for students after they have completed their first year of college

To be eligible for CAMP, students must reflect an agricultural background, meaning they or their parent(s) or guardian(s) must have engaged in migrant or seasonal farm work labor for a minimum of 75 days within the last 24 months.
Degrees Project
Lassen 2006
Director: Dr. Marcellene Watson-Derbigny
http://www.csus.edu/degreesproject

The Dedicated to Educating, Graduating, and Retaining Educational Equity Students (DEGREES) Project seeks to provide enhanced services to undergraduate students to make timely progress to their degrees and to reduce the achievement gap. Services provided by the DEGREES Project include: access to DEGREES Project Coaches to ensure students are connected to resources, on campus mentorship made available through the “U” Mentor Program, faculty advising in the Colleges, 24/7 tutoring available through Smarthinking, and an overall comprehensive and integrated menu of academic and student support services designed to foster student success. Targeted interventions reach particular populations to assist high-unit seniors to graduate, boost second-year persistence, promote the writing proficiency exam for juniors, assist with helping students to identify a major, and increase the utilization of high impact practices on campus.

Martin Luther King Jr. Scholars Center
Lassen Hall 2201
(916) 278-2MLK (2655)
http://csus.edu/saseep/mlk/

The Sacramento State Martin Luther King Jr. Scholars Program, which opened in November 2015, is a university-wide effort to promote the cultural and historical legacies of Black and African-American Students. The program is set by the backdrop of a mission to support and ensure the success of Black and African American students and those with an interest in African American heritage in their quest toward a degree at Sacramento State. The vision of the MLK Jr. Center is to foster an ethos of success that permeates the scholarly experience, the community and the world by setting a tone of change and lifelong improvement that inspires and fulfills the dream of Dr. Martin Luther King, Jr.

Center for First-Generation Student Initiatives
Lassen Hall 2205
(916) 278-6183
https://www.csus.edu/student-affairs/centers-programs/first-generation-students/

The Center for First-Generation Student Initiatives mission is to collaboratively build a collegial network of faculty, staff, students, and alumni who identify as first-generation and their supporters to promote, support, and advance first-generation student success while ensuring first-generation personal, professional, academic, and social college experiences are woven into the culture and climate of the university.

To guide this mission, the Center for First-Generation Student Initiatives maintains intra and inter institutional connections between vital campus community partners with each of the following outcome goals:

- **Goal #1.** Empower first-generation students with the skills and knowledge to improve retention, persistence and graduation rates
- **Goal #2.** Equip first-generation students with the skills and knowledge to create meaningful mentorships and connections to advance their academic and career aspirations
- **Goal #3.** Engage first-generation students with the skills and knowledge to make positive decisions to improve their holistic development.

Sacramento State is designated as a First Forward institution, an initiative of NASPA and The Suder Foundation that nationally recognize higher education institution committed to first-generation student success.

Asian Pacific Islander Desi American (APIDA) Center
Lassen Hall 2200
(916) 278-6183

Mission Statement
The Asian Pacific Islander Desi American Center’s mission is to facilitate APIDA students’ academic and personal success and affirm their diverse experiences through community leadership, student engagement, and mentorship.

Vision Statement
To serve as a resource hub and to advocate for the needs of APIDA students.

Objectives
Across Sacramento State, we strive to:

- Promote student equity, inclusivity, and cultural awareness
- Collaborate with students, staff, faculty, alumni, and the community
- Raise awareness of the unique and diverse needs of APIDA students

The Asian Pacific Islander Desi American community comprised of individuals of East Asian, South Asian, Southeast Asian, West Asian, Central Asian and Pacific Island backgrounds who represent over forty countries and hundreds of languages and dialects. An extremely diverse community, each group possess a distinct culture, history, immigrant history pattern that cannot be easily categorize. To ensure we meet the diverse needs of APIDA students, the center will engage in social, cultural, educational and advocacy programming to raise awareness of issues impacting these communities.

- **Goal #1.** Partner with existing campus programs, services and student & faculty/staff organizations to build community and expand support for APIDA students
- **Goal #2.** Empower APIDA students with the skills and knowledge to improve retention, persistence and graduation rates
- **Goal #3.** Promote and affirm the social, cultural, and educational experiences of students who identify within the Asian, Pacific Islander, and Desi diaspora
- **Goal #4.** Create campus and community engagement opportunities to advance APIDA students’ academic and career aspirations

Services

- Transition support from high school/community college
- Individual assistance and referrals to on and off-campus resources and programs
PAVE tutors continue to provide tutoring and mentoring as a supplemental educational service to support our district partners, school sites, students and their families.

Since its inception, PAVE tutors continue to provide tutoring and mentoring as a supplemental educational service to support our district partners, school sites, students and their families.

The ultimate goal of PAVE is to improve the educational opportunities for K-12 scholars and help them achieve college, career and life success through a positive experiential learning experience from Sacramento State academic tutors.

PAVE is nationally accredited by the National Tutoring Association.

Executive Trainers Program (ETP)
Lassen Hall 2205
(916) 278-6183

The Executive Trainers Program is led by a mission of service, activism in day-to-day student success activities, and is designed to promote retention, student persistence, and timely to graduation through executive-level peer leadership programming and interventions that strive to support college degree attainment.

Each semester, in collaboration with faculty members and Office of Graduate Studies, Executive Trainers Program hosts the “Thinking about Graduate School” six-part workshop series that are designed to equip students to evaluate and prepare for the range of post-baccalaureate academic and career options. These workshops are introductory topics of conversation for undergraduates and graduate students alike.

Speak to Lead
Lassen Hall 2205
(916) 278-6183
https://www.csus.edu/student-affairs/retention-academic-success/speak-lead.html

Looking to improve your public speaking and leadership skills? Gain the confidence to speak up? Come and learn with "Speak to Lead" The vast majority of people (75%) rank the fear of public speaking as their number one anxiety —according to the National Institutes of Mental Health. For some people, this means fear of speaking to large groups. For others, it means speaking to even a single person if that person has the power to evaluate you, as in a supervisor, interviewer, or professor giving an oral exam. “Speak to Lead” is a Public Speaking and Leadership Program that provides experiential workshops and practical opportunities for students to radiate confidence in their own communication and leadership skills for personal growth and social intelligence in a variety of speaking situations.

Program benefits
- Practice with a mentor/peer on strategies to improve your communication abilities with others and in a variety of speaking situations.
- Provided with public speaking and communication tips and knowledge that will help reduce your anxiety and improve your overall social performance.

- A safe space to reflect on individual, family, and community experiences
- College skills coaching: time management, organization, study, and goal setting
- Referral to graduate school and research opportunities
- Internships/employment information and referrals
- Information and workshops about financial aid and student accounts policies and processes
- Scholarship search/application support including proofreading essays/resumes and providing recommendation letters
- And many more...

Project HMONG (Helping Mentor Our Next Generation)
Lassen Hall 2205
(916) 278-6183
https://www.csus.edu/student-affairs/retention-academic-success/project-hmong.html

Project HMONG’s mission is to ensure the health, retention, persistence, and graduation success for Southeast Asian students, including but not limited to Hmong, Mien, Laotian, Cambodian, Thai and other underrepresented students. Committed to build a positive and supportive community of mentors and peers through mentoring and networking with support, guidance, and encouragement while promoting positive character development, Project HMONG’s focus is on student leadership, professional development and campus/community engagement through a cultural lens that incorporates the students’ experiences.

Students can be involved in the Peer to Peer Program to cultivate their own leadership skills and abilities in the context of their culture and college experience while learning about the role of mentorship.

Partnerships To Advance the Value of Education (PAVE)
Lassen Hall 2205
(916) 278-6183
https://www.csus.edu/student-affairs/centers-programs/pave/

The PAVE program is the flagship K-12 tutoring/mentoring program in the Division of Student Affairs in the Unit, Student Academic Success and Educational Equity Programs at Sacramento State. Devoted to improving the educational opportunities for K-12 scholars and helping them achieve college, career and life success, the PAVE program works collaboratively with regional K-12 school districts to offer tutoring, mentoring, and college preparedness.

The PAVE program’s extensive K-12 partnership is an important mechanism for achieving the university’s goal as an Anchor University in the region to improve neighborhoods and local school communities. Since its inception, PAVE tutors continue to provide tutoring and mentoring as a supplemental educational service to support our district partners, school sites, students and their families.

As academic tutors and college role models, student tutors experience a meaningful and structured experiential learning opportunity in which they apply the skills, knowledge, and experiences they gained in their college classroom. Student tutors are trained to support differentiated learning styles and subject matter tutoring in Common Core State Standards in English Language Arts/Literacy, Mathematics and/or the Sciences, as a supplement to teacher instruction and student learning.

Program Goals
- Goal #1. Engage K-12 partners to ensure student’s college preparedness upon admission
- Goal #2. Strengthen existing teacher preparation pipeline as a possible career pathway
- Goal #3. Provide a reflective service learning experience for student academic tutors

The ultimate goal of PAVE is to improve the educational opportunities for K-12 scholars and help them achieve college, career and life success through a positive experiential learning experience from Sacramento State academic tutors.

Looking to improve your public speaking and leadership skills? Gain the confidence to speak up? Come and learn with "Speak to Lead" The vast majority of people (75%) rank the fear of public speaking as their number one anxiety —according to the National Institutes of Mental Health. For some people, this means fear of speaking to large groups. For others, it means speaking to even a single person if that person has the power to evaluate you, as in a supervisor, interviewer, or professor giving an oral exam. “Speak to Lead” is a Public Speaking and Leadership Program that provides experiential workshops and practical opportunities for students to radiate confidence in their own communication and leadership skills for personal growth and social intelligence in a variety of speaking situations.

Program benefits
- Practice with a mentor/peer on strategies to improve your communication abilities with others and in a variety of speaking situations.
- Provided with public speaking and communication tips and knowledge that will help reduce your anxiety and improve your overall social performance.
• Participate in an experience with your peers and lead group discussions or meetings guided by a mentor/experts.

**Serna Center**
River Front Center 1022  
(916) 278-7241  
Dr. Viridiana Diaz  
Email: viridiaz@csus.edu  
https://www.csus.edu/sernacenter/

The mission of the Serna Center is to promote, foster, and enhance leadership, empowerment, self-advocacy, and civic engagement among Chicano/Latino students, but also, students from other underrepresented backgrounds at Sacramento State. The Center established a strong foundation that enriches cultural identity and develops a sense of familia within the campus.

**Dreamer Resource Center (DRC)**
River Front Center 1022  
https://www.csus.edu/student-affairs/centers-programs/dreamer-resource-center/

The mission of the Dreamer Resource Center is to make the dream of a college degree a reality for undocumented students and students with mixed-status families at Sacramento State. Services provided by the DRC include free immigration legal consultations, financial aid guidance, scholarship resources, ally trainings, a peer-mentoring program, a support group, and a seminar designed to help undocumented and mixed-status students navigate college. The goals of the DRC are to: (1) provide access to higher education opportunities to undocumented high school transfer, and graduate students, and those with mixed-status families; (2) provide support to help alleviate the uncertainty that comes from a lack of immigration status; (3) create a campus culture of knowledge and sensitivity to the issues faced by undocumented and mixed-status students; and (4) increase the retention and graduation of undocumented students and students with mixed-status families.

**The High School Equivalency Program (HEP)**
River Front Center 1022  
(916) 278-7241  
Director: Andres Enriquez  
Email: hep@csus.edu  
https://www.csus.edu/eop/

The High School Equivalency Program (HEP) is a federally funded program that helps migrant and seasonal farmworkers who are 18 years of age or older and not currently enrolled in school to obtain the equivalent to a high school diploma (HSE) and gain employment, go to an institution of higher education, the military, other postsecondary education or vocational training. HEP provides:

- Courses in reading, writing, math, science, and social studies  
- Instructors and tutors to help participants make progress in the classroom and prepare them to pass the HSE exam  
- Career professionals to assist participants in finding opportunities, post-HSE, to improve their quality of life  
- Courses offered in English and Spanish

**Migrant Student Leadership Institute (MSLI)**
River Front Center 1022  
(916) 278-7241

The mission of MSLI is to recruit and prepare students from migrant backgrounds to become college ready, competitive candidates for admission to a four-year institutions and ultimately future leaders in their communities.

The Institute provides students a safe and supportive environment that maximizes learning and allows for self-exploration, reflection, and transformation. Students also earn three-units of college credit upon successfully completing the academic coursework with a grade of C or better.

**Male Empowerment Collaborative (MEC)**
Lassen Hall 2205  
(916) 278-6183  
http://www.csus.edu/saseep/mec/  

"The Male Empowerment Collaborative" (MEC) is committed to addressing the gap between the academic successes of males compared to females. It is committed to the intellectual, spiritual, and economic development of young men in higher education. Like many other universities across the country, retention and graduation rates of males are significantly lower than females. Sacramento State through the MEC has worked for several years to increase the successful passage of males in higher education.

Using a program of support services including events, workshops, and personal advising, the Male Empowerment Collaborative at Sacramento State provides:

- Academic Advocacy  
- Educational Empowerment  
- Leadership Cultivation  
- Academic Advising  
- One-on-One and Group Mentorship  
- Generalized support in a variety of contexts

**Educational Opportunity Program (EOP)**
Lassen Hall 2205  
(916) 278-6183  
http://www.csus.edu/eop/

The Educational Opportunity Program (EOP) is one of the primary vehicles implemented by the CSU system to increase the access, academic success and retention of educationally and economically disadvantaged students. EOP strives to provide the necessary economic and educational resources to help students realize their academic potential. Students can apply to the EOP Program via the Cal-State Application (for the fall semester only).

The EOP program, enacted by law in 1969, is a state-mandated program that serves First-Time Freshmen and Transfer students. EOP students are California residents from low-income, educationally disadvantaged
communities who may not have had the opportunity to prepare adequately for admissions to a four-year college. AB-540/Dream Act students are eligible for EOP services.

The EOP Program provides retention services to all Sacramento State students including, academic advising, career counseling, personal counseling, professional development, educational workshops, social/cultural programing, and peer-mentoring advising. Admitted EOP students who have an Expected Family Contribution (EFC) of $1,500 or less and enroll in 15 units per semester may qualify to receive the EOP Grant. The Financial Aid Office will identify and award the EOP Grant to students.

Admitted EOP First-Time Freshmen students are required to attend a mandatory six-week Summer Bridge Academy Program from (early July through early August). Summer Bridge allows students for a smooth transition into the institution, earn college units, network with peers, meet EOP staff, professors and learn leadership skills.

As part of the First-Year Experience (FYE) First-Time Freshmen & Transfer students are required to enroll in an EOP Learning Community. The Learning Communities are cohort-base and student receive support from their professors, EOP counselor and Instructor Student Assistant. The Learning Communities allow students to navigate the campus, learn about other departments, and enhance their leadership and professional development skills.

**General and Continuing Services for current & prospective Students:**

- Early Outreach to schools, communities and individuals
- Campus Tours & EOP Presentations
- Assistance with the CSU & EOP Application Process
- EOP New Student Orientation (for admitted students)
- Summer Bridge Academy Program (freshmen only)
- Fall Learning Communities (for incoming students)
- Financial Aid Advising
- EOP Grant
- Professional Development & Career Services
- Academic Success Workshops
- Learning and Study Strategies Workshops
- Student Retention Peer-Graduate Advisors
- Strategic Advising and Retention Services to all class levels (Freshmen through Senior)
- Provide Recommendations/Referrals to other Support Services
- EOP Graduation Ceremony

For EOP Admissions Criteria and Application Process, please click on the following link below;

Fall 2022 - EOP Income Eligibility Criteria (csus.edu) (https://www.csus.edu/student-affairs/centers-programs/educational-opportunity-program/_internal/_documents/eop-eligibility-income-criteria.pdf)

1 See Admission and General Support Programs/Summer Bridge Academy below.

**Guardian Scholars Program (GSP)**

Lassen Hall 2302  
(916) 278-6680  
www.csus.edu/gsp (http://www.csus.edu/gs/)

The Guardian Scholars Program (GSP) is a student support service for current and former foster youth. The program office was established in 2006 to assist students in their pursuit of academic and career success. Program components consist of one-unit college strategies courses, one-on-one advising, counseling, financial assistance, workshops, social events, professional mentoring, priority registration, and direct referrals to other programs on-campus.

GSP is open to all Sacramento State students who have been in foster care, kinship care, or homeless situations and are considered “independent” by federal financial aid guidelines. We review applications throughout the year, so there is no deadline to apply. Our staff is committed to helping Guardian Scholars succeed and overcome obstacles to graduating.

All eligible students are encouraged to learn more about and apply to the Guardian Scholars Program by contacting our staff or visiting the Guardian Scholars website at www.csus.edu/gsp (http://www.csus.edu/gsp/).

**Summer Bridge Academy (pre-college program)**

Lassen Hall 2205  
(916) 278-6183  
https://www.csus.edu/student-affairs/centers-programs/educational-opportunity-program/

The Summer Bridge Academy is an educational equity project administered through the Educational Opportunity Program. Summer Bridge is a mandatory six-week intensive academic preparation and college orientation program designed strictly for incoming EOP first-year student to help them make a smooth transition from high school to college. EOP serves economically disadvantaged, first-generation college students.

College level General Education classes are offered in the Academy. Students may complete up to two college courses, including an in-depth Leadership Development course. Summer Bridge also meets Early Start requirements. There is no cost to students.

Successful completion of the courses students may earn 3-5 units of credit. To be considered for the Summer Bridge Academy, students must be admitted to Sacramento State and to EOP. Prospective students are strongly encouraged to apply to the EOP program, via Cal State Apply, during the CSU Application cycle (Oct. 1st - Nov. 30th). Students must meet all admission deadlines, as established by the Admissions & Outreach Office to gain admission to EOP and Summer Bridge.

Note: EOP also provides Summer Bridge programming for upper-class level including sophomores and transfer students.

To learn more about the Summer Bridge Academy, visit or call the EOP office (916) 278-6183 or visit the Academy website at www.csus.edu/student-affairs/centers-programs/educational-opportunity-program/summer-transitional-programs.html (https://www.csus.edu/student-affairs/centers-programs/educational-opportunity-program/summer-transitional-programs.html)

**Faculty/Student Mentor Program (FSMP)**

Lassen Hall 2205  
(916) 278-6183  
www.csus.edu/fsmp (http://www.csus.edu/fsmp/)
The Faculty Student Mentor Program (FSMP) is an educational equity program designed to offer academic and personal support to students from traditionally low-income communities and selected students who have requested services due to challenges experienced in their education. The Faculty Student Mentor Program’s goals are to increase the retention rates of students by helping them develop the knowledge, skills, and attitudes necessary to complete their academic goals, introduce the students to a discipline, build communities, and promote excellence.

Faculty and Peer Mentors are key elements to goal attainment. Program participants’ integration into campus life is facilitated by the development of discipline-based faculty and peer mentor teams. The FSMP matches the faculty peer mentor teams with program participants. These teams may organize study sessions, workshops and tutorials in the seven colleges. In addition, the mentors give personal, career and academic advice, and provide referrals to advisors within the departments and other on-campus resources. The teams also plan activities supportive of the students’ interests and needs.

For more information, please call or visit our office.

**Peer and Academic Resource Center (PARC)**

Lassen Hall 2200  
(916) 278-6010  
www.csus.edu/parc (http://www.csus.edu/parc/)

The Peer and Academic Resource Center (PARC) is a centralized academic support hub where students are united for common goals of excellence and student success through peer-led and student-driven services. The mission of PARC is to promote the scholastic achievements of students through enriched and supportive academic peer-to-peer learning opportunities that aid students along the pathway to degree attainment. We offer four programs - Supplemental Instruction (SI), Supplemental Instruction (SI) Plus, the Peer-Led Advising for College Experience (PLACE) Program, and the Workshops & Individual Tutorials (WIT) Program.

* Supplemental Instruction (SI) is an international certified academic support program for students who are enrolled in historically-challenging general education (GE) courses. SI provides students credit (1 unit) to learn how to implement transferable academic learning skills and strategies to increase grades in difficult university courses.

* Supplemental Instruction (SI) Plus provides free academic review and test preparation sessions for students enrolled in large lecture courses. These sessions are connected to the SI classes offered by PARC, however, they are open to all students in the class, not just those enrolled in the SI program.

* Peer-Led Advising for College Experience (PLACE) is led by students who are familiar with campus life and resources. This program provides peer-led supplemental advising services for all students on campus. One of the well-known student-advising programs, the Government Odyssey Program, is also housed in the PARC.

* Workshops & Individual Tutorials (WIT) is a free tutoring service (group and individual tutorials) open to all students on campus. The tutorials are taught by trained tutors who are familiar with materials in historically-difficult courses. In addition to helping students develop academic strategies to better understand challenging course materials, WIT has also successfully presented many Academic Support workshops in collaboration with the Academic Advising Center, the Career Center, and First Year Experience (FYE), and Residential Life. Some workshop topics included Time Management, Study Skills, Self-Care, among other topics. We also offer workshops on culturally inclusive behavior and intercultural communication skills.

All of these programs assist students in collaboratively learning about how to be a successful student and how to successfully navigate the demands of the academic community. Our motto embodies who we are as a Center: Successful students promoting student success!

**Disability Access Center**

Lassen Hall 1008  
(916) 278-6955 (voice) or (916) 278-7239 (TDD only), (916) 278-7825 (fax)  
dac@csus.edu (http://catalog.csus.edu/academic-support-services/dac@csus.edu) (Email)

To be eligible for the Disability Access Center and disability-related academic accommodation services, applicants must be currently enrolled at Sacramento State, submit a completed Disability Access Center application along with current medical documentation verifying disability and functional limitations, and meet with an Access Coordinator for an Intake meeting. Accommodations are not retroactive. Accommodations are not in effect until an Intake with a Disability Access Counselor has been completed, appropriate academic adjustments approved by the Access Coordinator, and a current accommodation letter has been issued by the Disability Access Center. The accommodation letter, to be current, must be requested and issued EACH semester.

The Disability Access Center serves all matriculated Sacramento State students regardless of identity, nationality or other status. All Disability Access Center students are served under the CSU Policy for the Provision of Accommodations and Support Services to Students with Disabilities.

Disability Access Center services are located in three different buildings. The Access Coordinators and TRiO SSSD program are located in Lassen. The Assistive Technology Lab is located in AIRS, the Testing Center is housed in the basement of the Library.

**Assistive Technology Lab (ATL)**

The Assistive Technology Lab ensures Disability Access Center students, with print disabilities, have equal access to instructional materials. The ATL staff convert books and required course information into accessible formats. Disability Access Center students are encouraged to use the computer lab, where assistive hardware and software is available to qualified students, based on referrals from Access Coordinators. To learn more about qualification criteria and services, contact dac@csus.edu.

**Testing Center**

Lower Level Library, Room 14  
(916) 278-6296  
www.csus.edu/testing (http://www.csus.edu/testing/)

The Testing Center provides testing accommodations for eligible students registered with the Disability Access Center. Students requesting disability related accommodations for placement exams, new student orientation or other exams must be determined to be eligible for this service by first applying to the Disability Access Center. Tests are administered in lower-distraction classrooms, have available adjustable height tables, and essential assistive technology.
The Testing Center also administers the Writing Placement for Juniors (WPJ) exam and the Writing Placement for Graduate Students (WPG) exam, as well as state and national standardized tests (such as the California Basic Educational Skills Test [CBEST] and the Graduate Record Exam [GRE] Subject Tests) to current and prospective students.

In addition, the Testing Center also provides proctoring services for make-up tests for a fee. CSUS students, with their instructor’s permission, may schedule appointments to take paper-based classroom exams, exams with class conflicts, or exams for distance education courses. And finally, the Testing Center provides proctoring services for a fee, for anyone needing to take a paper-based test for another university, college or agency.

TRIO (SSSD)

The federally funded “TRIO” Student Support Services (SSSD) Project offers supplemental retention services to students with disabilities who require additional academic support and meet the federal TRIO qualifications for eligibility. This program, even though housed with the Disability Access Center in Lassen, has specific criteria for eligibility, and is separate from the Disability Access Center. The SSSD project offers limited tutoring, grants, financial literacy support, career assistance, peer mentors; as well as sponsored academic, cultural and social activities to strengthen academic and non-cognitive skills, and to increase retention and ultimately graduation. Interested students must submit a TRIO SSSD application, meet federal and program eligibility criteria, be U.S. Citizens or Permanent Residents, and be committed to actively participating in SSSD program requirements at Sacramento State. For more information or an application, contact trio@csus.edu.

Crisis Assistance and Resource Education Support (CARES) Office

CARES Office suite is located in University Union Suite 1260 / Business Hours: Monday-Friday 9am-4pm

(916) 278-5138
cares@csus.edu

https://www.csus.edu/student-affairs/crisis-assistance-resource-education-support/

The Sacramento State CARES Office provides assistance to students who are in crisis or experiencing unique challenges to their education.

CARES Case Managers can coordinate referrals to campus and community resources, and offer follow-up support to address a variety of issues including, but not limited to:

• Housing displacement
• Transportation barriers
• Financial Emergencies
• Food insecurity
• Mental health and wellness
• Physical health and wellness
• Transition back to campus following a hospitalization

Additional Services and Support:

• Assistance with CalFresh applications
• Student Emergency Housing on campus

• Student Emergency Fund
• Low-Income Student Housing (Rapid Rehousing)
• Advocacy (for accessing resources)
• Faculty and staff workshops on working with students in distress

Basic Needs Initiative

Division of Student Affairs
(916) 278-6060
http://csus.edu/basicneeds/

The Basic Needs Initiative provides a variety of resources to meet the housing, food, and financial needs of students. Basic Needs are the minimum necessary elements that people need in order to succeed in their goals; these include food, clothing, shelter, safety. If you are experiencing challenges with food access, housing, or finances, Sacramento State wants to ensure you have resources available to you in your time of need.

We know that Basic Needs security is essential to academic success. We encourage you to leverage your resources and utilize the options on the Basic Needs Website.

Throughout the website, you will see tips on how to use these resources in order to address Basic Needs Challenges. We hope that you leverage all your resources creatively and in a way that works for you, we know that there are many ways to be a student (full-time vs. part-time, students with children, students with disabilities, students without parental support, students without FAFSA aid, etc.) so, creating a plan unique to your needs is important.

If you have any questions or need assistance creating your Basic Needs Support plan, please contact our CARES Office cares@csus.edu or 916-278-5138.

Project Rebound

Aaron Greene

Division of Student Affairs

Lassen Hall 2104
(916) 278-6794
https://www.csus.edu/student-affairs/centers-programs/project-rebound/

Project Rebound (PR) is a growing collaboration of college support programs uniquely equipped to help formerly incarcerated people access and navigate higher education at California State Universities. Founded in 1967 at San Francisco State (SFSU) by Dr. John Irwin, who had been incarcerated before earning his Ph.D., he became a tenured professor at SFSU for 26 years and cultivated PR’s philosophy for others to implement. In 2015, Project Rebound moved beyond the confines of SFSU onto eight other California State University (CSU) campuses, including Sacramento State; currently. Project Rebound can be found on 14 CSU campuses, with several other campuses developing programs.

Project Rebound is a program to assist formerly incarcerated students in preparing for, applying to, enrolling in, and graduating with a high-quality degree from Sacramento State. Project Rebound supports each student to ensure their optimal success at the University. The program offers academic and financial counseling, referrals, peer mentoring, tutoring, and career development. The program addresses students’ basic needs,
enabling them to focus on their studies and achieve educational and personal empowerment.

Academic Centers and Institutes

Centers and institutes contribute significantly to the research, teaching, and service priorities of the University. By attracting external funding, academic centers and institutes provide opportunities for faculty and students to engage current or emerging problems in a search for new solutions. For more information, please contact the Offices of Research, Innovation, and Economic Development at (916) 278-6402 or visit www.csus.edu/research (http://www.csus.edu/research/).

Academic Affairs
• Center for College and Career Readiness
  Co-Directors, Marcy Merrill & Ravin Pan
• Office of Water Programs
  Director, Ramzi Mahmood

College of Arts and Letters
• Center for Hellenic Studies
  Director, Katerina Lagos
• Center for Practical and Professional Ethics
  Director, Kyle Swan

College of Business
• Center for Small Business
  Director, William Cordeiro

College of Engineering and Computer Science
• Center for Information Assurance and Security
  Director, Jun Dai

College of Health and Human Services
• Center for African Peace and Conflict Resolution
  Director, Ernest Uwazie
• Center for Health Practice, Policy, and Research
  Director, Mary Maguire

College of Natural Sciences and Mathematics
• Center for Mathematics and Science Education
  Director, Rich Hedman

College of Social Sciences and Interdisciplinary Studies
• Education Insights Center
  Director, Andrea Venezia
• Institute for Social Research
  Director, Shannon Williams

Public Affairs & Advocacy
• Center for California Studies
  Director, Leonor Ehling

Note: Centers and Institutes are added and removed from the list as funding and programs evolve. Please visit www.csus.edu/research (http://www.csus.edu/research/) for the most current listing.

CSU International Programs

International Programs

Developing inter-cultural communication skills and international understanding among its students is a vital mission of the California State University (CSU). Since its inception in 1963, the CSU International Programs (CSU IP) has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year in all programs and a semester option in some countries and programs.

More than 20,000 CSU students have taken advantage of this unique study option. Also, through the CSU IP exchange partnerships, more than 5,000 international students have come to study at the CSU.

International Programs participants earn resident academic credit at their home university while they pursue full-time study at a host university or study center abroad. CSU IP serves the needs of students in more than 100 designated academic majors. Affiliated with nearly 60 recognized universities and institutions of higher education in 18 countries, CSU IP also offers a wide selection of study abroad destinations and learning environments.

Australia
Griffith University
Macquarie University
Queensland University of Technology
University of Queensland
Western Sydney University

Canada
Concordia University

Chile
Pontificia Universidad Católica de Chile

China
Peking University (Beijing)
Language & Culture at Peking University

Denmark
Danish Institute for Study Abroad, Copenhagen

France
Institut Catholique de Paris
Institut Supérieur d’Electronique de Paris
Université d’Aix-Marseille (Aix-en-Provence)
Université de Cergy-Pontoise
Universités de Paris I, III, IV, VI, VII, VIII, X, XI, XII, XIII
Université Paris-Est Marne-la-Vallée
Université d’ Evry Val d’Essonne
Université de Versailles-Saint-Quentin-en-Yvelines

Germany
University of Tübingen and a number of institutions of higher education in the Federal state of Baden-Württemberg
Students participating in CSU IP pay CSU tuition and program fees, and are responsible for airfare, accommodations, meals and other personal expenses. Financial aid, with the exception of Federal Work-Study, is available to qualified students and limited scholarship opportunities are also available. All programs require students to maintain good academic and disciplinary standing, many programs are open to sophomores or graduate students. California Community College transfer students are eligible to apply (to select programs) directly from their community colleges. Students must possess a current cumulative grade point average of 2.75 or 3.0, depending on the program, and must fulfill all coursework prerequisites. Additional program information and application instructions can be found on the International Programs Website. (https://csuip.calstate.edu/?FuseAction=Abroad.Home)

Research and Extended Programs

Offices of Research, Innovation, and Economic Development

Division of Academic Affairs
University Library, 2nd Floor South, Suite 2520
(916) 278-6402

Research@csus.edu
www.csus.edu/research (http://www.csus.edu/research/)

The Offices of Research, Innovation, and Economic Development (ORIED), as part of Academic Affairs, reports to the Provost and works to expand the research capacity of Sacramento State's faculty, students, and research staff. ORIED supports faculty pursuing external funds for research projects (proposal development, submission assistance, contract development, project coordination, and related infrastructure needs) as well as research program development initiatives. On behalf of the University, we submit faculty grant and contract proposals, administer internal research funds and recognition programs, facilitate the Institutional Review Board (IRB) and Institutional Animal Care and Use Committee (IACUC), and coordinate patent and tech transfer activities, as well as provide a full range of research integrity and compliance functions for the research enterprise.

Post-award account administration for sponsored agreements and related accounts is typically handled through the Office of Sponsored Programs Administration (SPA) of University Enterprises, Inc. (UEI). SPA professional staff work in coordination with ORIED to support, accept and administer the awards faculty receive from federal, state, and private funding agencies.

International Programs and Global Engagement

Library 1001
(916) 278-6686
www.csus.edu/international-programs-global-engagement/ (https://www.csus.edu/international-programs-global-engagement/)

Email: intlprg@csus.edu

The mission of the International Programs and Global Engagement (IPGE) (https://www.csus.edu/international-programs-global-engagement/) office is to provide opportunities for Sacramento State students and faculty to increase their global knowledge, expand their international experiences, and gain new global perspectives. The office is comprised of the following functional units:

- International Admissions
- International Student and Scholar Services
- Study Abroad
- Global Initiatives
- Faculty and Staff Immigration Services
- The Passport Place @ Sac State

International Admissions

Sacramento State welcomes students from across the globe. The International Admissions (https://www.csus.edu/international-programs-global-engagement/application-admissions-process/) office serves as the point of contact for all prospective international applicants intending to study at Sacramento State on a F-1 or J-1 student visa. Dedicated international admissions specialists process undergraduate and graduate applications, in addition to providing guidance throughout the application process. For additional information regarding international admission, please e-mail the office at intlinfo@csus.edu.

International Student and Scholar Services
Sacramento State is host to more than 600 students and scholars from 75 different countries. International Student and Scholar Services (https://www.csus.edu/international-programs-global-engagement/international-student-scholar-services/) within IPGE provides immigration support, coordinates International Student Orientation, and offers cultural programming and other services geared towards assisting international students and scholars in becoming more engaged in campus and community life. For additional information, please e-mail the office at intlprg@csus.edu.

Study Abroad

Sacramento State students have a variety of opportunities to study at over 70 universities around the world. Overseas educational opportunities are available in almost every discipline. Financial aid and scholarships are available to qualified students.

While studying abroad, students develop global perspectives related to their field of study that enhance academic knowledge and professional development. Study Abroad is one of the most transformational experiences offered at Sacramento State.

Sacramento State offers a variety of study abroad options:

- California State University International Programs (CSU-IP) is the system wide, year-long study abroad program offered by the California State University
- Sacramento State Exchange Programs include semester and year-long study abroad experiences through exchange programs with partner institutions
- Short-term, Faculty-Led Study Abroad programs
- Short-term non-credit bearing study tours
- Study Abroad opportunities through independent affiliated providers

Students interested in studying abroad are advised to start the planning process as early as possible. For additional information about Study Abroad opportunities, please e-mail sabroad@csus.edu or visit the Study Abroad Website (https://www.csus.edu/international-programs-global-engagement/study-abroad/).

The Study Abroad office also offers the following services to faculty members interested in leading students groups or conducting research in foreign countries:

- Assistance in making contacts with colleagues at affiliated institutions abroad;
- Advising for faculty exchange opportunities for one semester or one year;
- Providing information about State Department advisories for international travelers;
- Providing information on faculty development seminars abroad; and,
- Providing information and advising regarding the International Research Scholar Program.

For additional information about Faculty-Led Study Abroad programs, please e-mail Alessandra McMorris at mcmorris@csus.edu.

Global Initiatives

The Global Initiatives team is responsible for international recruitment and outreach, maintaining and building international partnerships, and developing international agreements. Specific inquiries or requests for information can be e-mailed to Kunyi Cheng, Coordinator of Global Initiatives, at kunyi.cheng@csus.edu or Tel: (916) 278-4877.

Faculty and Staff Immigration Services

Sacramento State is committed to the internationalization of the campus by hiring diverse faculty with world-class expertise in a wide range of academic disciplines. Faculty and Staff Immigration Services (https://www.csus.edu/international-programs-global-engagement/global-initiatives/immigration-services.html) provides information on immigration and international employment requirements for faculty and staff at Sacramento State.

Please direct Faculty and Staff Immigration questions to Kunyi Cheng, Coordinator of Global Initiatives, at kunyi.cheng@csus.edu or Tel: (916) 278-4877.

The Passport Place @ Sac State

The Passport Place @ Sac State (https://www.csus.edu/international-programs-global-engagement/the-passport-place.html) accepts U.S. Passport Applications between Monday and Friday. The Passport Place is located in the International Programs and Global Engagement (IPGE) office, Library 1001, next to the Grumpy Mule coffee shop (https://www.csus.edu/campusmap/). For detailed hours and passport application requirements, please visit the Passport Place website (https://www.csus.edu/international-programs-global-engagement/the-passport-place.html).
COMMUNITY CONNECTIONS

MESA Engineering Program (MEP)
Santa Clara Hall 1207
(916) 278-6699

Participation in the MESA Engineering Program (MEP) increases the probability that students will be successful in their engineering or computer science college studies. Focusing on the recruitment, retention, and graduation of highly motivated students from educationally disadvantaged backgrounds, MEP emphasizes participation by students from communities with low rates of enrollment in engineering majors.

The MEP program provides an on-campus home for its members with a large 24 hours-a-day study center that encourages study groups. MEP provides professional development, a freshman orientation course, and personal-academic advising. It assists in the coordination of tutoring services for all students in the College of Engineering and Computer Science.

Community Engagement Center (CEC)
Dr. Ann Moylan, Director
Library 4028
(916) 278-4610
www.csus.edu/cec

The Community Engagement Center, a program of Academic Affairs, focuses Sacramento State’s greatest resource—the knowledge and skills of faculty, staff and students—on making a difference in the various communities throughout the Sacramento region.

Our mission is to engage members of the Sacramento State campus through their educational experiences to become aware of and respond to local and global community concerns through Service Learning, Volunteerism and Academic Internships. Additionally, our vision is to create a campus climate that promotes community awareness and involvement and supports students to become civically minded graduates who are actively engaged in making a difference both locally and globally.

At Sacramento State, community engagement describes the collaboration between institutions of higher education and their larger communities (local, regional/state, national, global) for the mutually beneficial exchange of knowledge and resources in a context of partnership and reciprocity.

The purpose of community engagement is the partnership of college and university knowledge and resources with those of the public and private sectors to enrich scholarship, research, and creative activity; enhance curriculum, teaching and learning; prepare educated, engaged citizens; strengthen democratic values and civic responsibility; address critical societal issues; and contribute to the public good.

Students, faculty, and the CEC collaborate with community partners to create community-engaged learning activities to:

• develop leadership and teamwork skills; and
• act locally, think globally.

The Community Engagement Center programs include:

• Service Learning (SL), which links students in courses with community-based partners for mutual benefit. The community partner gets assistance with various programs and the students gain experience understanding how different organizations operate and function to deliver programs and services. One example of Service Learning is: "Writing Partners @ Sac State," a program where university students participate in a letter exchange with fifth graders at local elementary schools. Writing Partners helps Sac State students be better writers and it helps fifth graders aspire to become college students;
• Community Service, including Alternative Break @ Sac State and Sac State Volunteers, both of which provide volunteer opportunities with organizations throughout the Sacramento region;
• Civic Engagement, which supports opportunities for students to become "engaged" citizens in their communities and includes the Constitution and Civic Engagement Program (CCEP) sponsored by CEC and other campus programs; and
• Academic Internships, which are stand-alone courses that formally integrate students’ academic study with practical experience in a cooperating organization.

For more information on how to become involved, visit the Community Engagement Center Web site at http://www.csus.edu/cec.

Partnerships for Employment Opportunities
Dr. Melissa Repa, Director

Employer Relations Team:

Dr. Melissa Repa, Director

Employer Relations Team:

Maria Johnson, Employer Relations Specialist
Stephanie Francis, Lead Internship & Professional Programs Coordinator
Yoon Chao, Employer Relations Coordinator

Career Center
Lassen Hall 1013
(916) 278-6231
www.csus.edu/student-life/career-center/

Through a collaborative career development approach, the Career Center engages, educates and empowers our students and alumni to thrive and successfully contribute to our community, economy and future workforce. The Career Center offers a proactive comprehensive career development program, fostering partnerships with community and campus businesses to provide hands-on work experience for students and alumni.

Experiential education and internships offer students academic credit or experience for employment and learning opportunities that complement their educational endeavors by matching educational goals with work experiences. The Career Center provides internship and job listings for students looking for employment while attending college. Handshake (https://app.joinhandshake.com/login/), the online job database, lists
thousands of opportunities (part-time, full-time, internship, and volunteer) for students and alumni in the Sacramento and Western region and beyond. It is accessible at the Career Center website 24 hours a day.

The On-Campus Interviews (OCI) program provides students and alumni with an opportunity to interview with Fortune 500 companies, top accounting firms, government agencies and other well-known organizations without ever leaving campus. Interviews for full-time and internship opportunities are conducted within our Career Center or virtually online.

Career Events and Job Fairs offer students and alumni even broader opportunities to meet with prospective employers. Over 500 employers attend Career Center events, annually, each searching specifically for Sacramento State students who have a reputation for professionalism, strong work ethic and academic preparedness to help companies and organizations excel.

Sacramento State alumni can also share advice and feedback with students via our online career mentoring platform: Sac State Career Networ (http://sacstatecn.firsthand.co/)k in partnership with Alumni Association.

See also Campus Life/Student Resources/Career Center.

The EXCEL Program
Pamela O’Kane: (916) 278-4345
E-mail: okane@csus.edu

In the EXCEL Program, Sacramento State students learn the basics of tutoring elementary school children in reading or mathematics. After training, they work under supervision at local elementary schools helping children who are achieving below grade level. The following classes each offer 3 units of upper division credit:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 124A &amp; EDUC 124B</td>
<td>Tutoring Children in Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 125A &amp; EDUC 125B</td>
<td>Tutoring Children in Reading Practicum</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 126</td>
<td>Assisting the Elementary Classroom Teacher</td>
<td>3</td>
</tr>
</tbody>
</table>

Some paid positions are available with funding through FWS or America Reads/America Counts. This experience is an excellent way for students to find out if a career working with young people is right for them.

University Outreach Services
Office of Admissions and Outreach
Lassen Hall Lobby - Room 1102
www.csus.edu/admissions (http://www.csus.edu/admissions/)

The Admissions and Outreach Office is charged with the recruitment of prospective students to the University. This involves recruitment visits and yield events at high school and transfer services, as well as services to students from low income educationally disadvantaged groups. The programs are designed to meet enrollment levels that reflect the richness of diversity in the Sacramento Region and to build a healthy enrollment balance by class level and academic programs.

Additional services provided include:

- Pre-admission advising and presentations;
- California Residency review;
- Western Undergraduate Exchange (WUE) program;
- Undergraduate application review and processing;
- Prospective and new student event planning;
- Customer Relationship Management;
- Outreach and marketing services;
- Campus tours;
- Tele-counseling services;
- Distribution of complimentary copies of CSU/Sacramento State materials to schools, colleges, and related agencies;
- Consult and Liaison between University academic departments and partner institutions for course articulation

High School Outreach Programs
High School Outreach programs provide information and guidance on higher education opportunities in general, and Sacramento State opportunities in particular, to prospective students, parents, guidance personnel, and other interested persons. High School Liaisons provide extensive outreach visits and activities at high schools in the Sacramento State service region and throughout the state. The Outreach staff also assists students in completion of the matriculation process and articulates University programs, policies, and procedures to other educational institutions and agencies.

Transfer Outreach Programs
Community College Outreach Programs work closely with community colleges in California to facilitate a smooth transition for students transferring to Sacramento State. In addition to the following list, the programs and services of the Community College Outreach mirror the High School Outreach program.

- Memoranda of Understanding, established with the Los Rios, Sierra, and Yuba Community College Districts, are partnerships emphasizing and promoting a seamless transition to Sacramento State.
- Development and distribution via www.assist.org (http://www.assist.org) of official articulation agreements between Sacramento State and other campuses specify the acceptability of transfer courses toward meeting lower-division major preparation.
- Visits to community colleges enable staff to meet with prospective students, providing instant, on-site admission for eligible applicants at major feeder community colleges.

Community Outreach
Project PLAY
Dr. Scott Modell
E-mail: modells@csus.edu
(916) 278-5041

Project PLAY (Play-Oriented Lifetime Activities for Youth) is a fitness and leisure program for individuals with disabilities ages 3-25, that also trains parents, legal guardians, and other family members to provide follow-up instructions and support for program participants in the home. Project PLAY combines activities in the areas of motor fitness, physical fitness, development of leisure time skills, opportunities in adapted aquatics, training for Special Olympics, wheelchair games, and other organized competition for individuals with disabilities.
Project PLAY is an opportunity for students to participate in community engagement in the Department of Kinesiology and Health Science.

**Sacramento State Alumni Association**

**Alumni Association**

**SAA Staff Advisor:** Erin Mahoney (they/them)  
**Telephone:** (916) 278-4354  
**E-mail:** saa@csus.edu (alumni@csus.edu)  
**www.csus.edu/alum/students/**

The Alumni Association, open to all current students and friends of the University, was founded July 20, 1950 to encourage alumni involvement with their alma mater and to support the campus community. Governed by a 27-member Board of Directors, the Association offers its members various opportunities to volunteer and participate in social and fundraising activities.

Current students are encouraged to join the Student Alumni Association (SAA). SAA is a student volunteer group that works on behalf of the Alumni Association to enhance the student experience by connecting students to one another, alumni, and the University. SAA volunteers plan and participate in social, career-oriented, and school unifying events. SAA membership for current students is only $20/year and, in addition to the full privileges and benefits of membership in the Alumni Association, members receive a t-shirt and keychain.

The Alumni Association also provides the opportunity to network with alumni who share your professional or social interests through chapters including: Art; ASI; Basketball Alumni and Friends; Black Alumni; Business; Capitol Fellows Affiliate; Construction Management; Criminal Justice; Education; Engineering/Computer Science; Government; Hong Kong; Football/Spirit Alumni and Friends; Latino; MPPA; Nursing; Recreation, Parks and Tourism; Speech Pathology and Audiology; Theatre/Dance; and Urban Collective. All groups welcome student member (SAA) participation as well.

Events are another way the Alumni Association keeps alumni active in the life of the University. Annual events include “Alumni Month” every April, the Causeway Classic, Homecoming, pre-game parties, and the prestigious Distinguished Service Awards. Members of the Alumni Association also support students through donations to the Alumni Scholarship Fund. Each year 12-15 scholarships ranging from $1,000-$2,000 are awarded to deserving Sacramento State students.

When you think of your alumni home on campus, think of the Alumni Center. Maintained and operated by the Alumni Association, it is an outstanding venue that may be rented for meetings, conferences, weddings, receptions, and other social events. It truly provides a “home” on campus for alumni and a place for activities that help alumni strengthen ties to the students, the campus, and the community.

Current Alumni Association membership information can be found online at [www.csus.edu/alum/students/](http://www.csus.edu/alum/students/). We hope you will get involved and consider showing your Hornet Pride by joining for life!
University Housing Services

On Campus
(916) 278-6655
www.csus.edu/student-life/housing (http://www.csus.edu/student-life/housing/)

The on-campus community consists of approximately 3200 residents living at North Village or Hornet Commons. Living on campus can be a very special and rewarding part of the Sacramento State experience. On-campus living is convenient and offers opportunities for students to make new friends and be a part of an active and engaged community. Additionally, research shows that students who live on campus feel more connected and have a higher persistence rate toward graduation as compared to students who live off campus. North Village and Hornet Commons communities have dedicated full-time, post masters live-in professional staff, along with trained Resident Advisors. The residential staff organize educational programs, engage in academic advising, and serve as mentors and sources of campus information for residents.

Submitting an on-line application for on-campus housing is easy and convenient. Housing applications for the following academic year are available in early February. Students attending for the spring semester only can apply for housing in early November. Please visit the University Housing Services web site at https://www.csus.edu/student-life/housing/ or contact University Housing Services at housing@csus.edu for specific application time-lines and housing costs. Space fills up quickly, so interested students should submit an on-line application, including any necessary payments, as soon as charges are posted to the student’s account.

North Village
(916) 278-6655
www.csus.edu/student-life/housing (http://www.csus.edu/student-life/housing/)

North Village housing community consists of approximately 2100 residents living in seven residence halls which offer a variety of living options including single and double rooms, and apartment style suites. Each residence hall provides furnished living accommodations along with Wi-Fi access, computer lab/ print stations, cable TV and XfinityOnCampus with 120+ Digital and HD online channels with DVR service, study rooms, recreation rooms, lounges, kitchenettes, and laundry facilities. Also, residents have access to a gaming lounge, movie room, fitness center, pool, basketball and tennis courts, and a rooftop terrace. The halls are situated adjacent to the American River which has walking and biking trails. Additionally, the Servery at the Dining Commons and the Courtyard Market provide a variety of freshly prepared dining options.

Hornet Commons
(916) 573-6205
www.csus.edu/student-life/housing (http://www.csus.edu/student-life/housing/)

Hornet Commons (HC) is the newest all-inclusive, pet-friendly apartment complex located on the south side of campus. It houses 1100 Upper-Class students throughout six residential buildings. All units come fully furnished with full kitchens, in-unit washer/dryer, cable, and Wi-Fi. The property features a dedicated community building that includes a state-of-the-art fitness center, business center, pool, sundeck, and cafe.

Off Campus
Please refer to our Off-Campus Housing Resources page: https://www.csus.edu/student-life/housing/off-campus-housing-resources.html

Campus Dining
Sac State Campus Dining
(916) 278-6376
www.dining.csus.edu (http://www.dining.csus.edu)

Beginning July 1, 2021, Sac State Campus Dining, operated by University Enterprises, Inc. will be managed by Aramark (contracted supplier of University Enterprises, Inc.) and is proud to offer the campus community a wide variety of diverse, healthy, and great tasting dining choices throughout the campus. From snacks, food trucks, and fine dining, to everything in between, including vegan and vegetarian options, students will find dining options to fit their schedules and their tastes.

The University Union features classic American fare and ethnic cuisine, as well as Starbucks coffee, smoothies, and vending.

The River Front Center on the north side of campus houses the well-known favorite, Togo’s, as well as Baja Fresh Express, Starbucks, vegetarian and vegan eateries, and Mediterranean cuisine.

Other food and coffee locations are located throughout campus near Lassen Hall, the Library, the Hornet Bookstore, and beginning in the fall of 2021, the new on-campus housing facility, Hornet Commons, will feature Einstein Bros. Bagels.

Sac State Campus Dining also operates a Starbucks truck, which serves hot and cold beverages, pastries, breakfast sandwiches, bistro boxes, fruit, and bottled water.

Epicure Catering at Sacramento State offers a variety of fresh, healthy foods prepared by the chef at Epicure Restaurant at Sacramento State. The professional and experienced staff is available for a full range of events and activities, both on and off campus. To request information and a catering menu, please call (916) 278-6786. Visit the Sac State Campus Dining website at http://www.dining.csus.edu (http://www.dining.csus.edu/) for a current list of eateries, hours of operation, map with dining locations, and complete information about the services Sac State Campus Dining provides.

The Servery at the Dining Commons
Dining Commons
(916) 278-6971
www.dining.csus.edu/dining-commons/ (http://www.dining.csus.edu/dining-commons/)

For the convenience of students living in the residence halls at Sacramento State, The Servery at the Dining Commons offers an “All You Care to Eat” meal service in a relaxed setting. Students living off campus may also eat here, and off-campus meal plans are available for purchase. The serving area in The Servery at the Dining Commons recently underwent a significant renovation, which changed the way food was prepared and served. The new, state-of-the-art venue includes 10 cooking exhibition stations with a different cuisine at each, where diners can see chefs prepare their meals. The Courtyard Market, a popular

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convenience store located in the American River Courtyard Residence Hall near The Servery at the Dining Commons, offers healthy snacks and freshly made foods, including vegan and vegetarian options.

Campus Services

Bookstore
State University Drive East  
(916) 278-6446  

The Hornet Bookstore carries all textbooks required in campus curricula. Textbooks are available for purchase in-store during store business hours or ordered online anytime at hornetbookstore.com (http://www.bkstr.com/csuscaramentostore/home/en/). Please review the website for shipping options, store hours and pricing. The Bookstore offers a variety of textbook options, including new, used, rental and digital. All special program participants are advised to contact the Customer Service department before making purchases. The textbook department is located on the 2nd floor of the Hornet Bookstore.

The Bookstore offers merchandise to make life on campus more convenient. These items include school supplies, sportswear, backpacks, art supplies, calendars, greeting cards, sundries, snacks, and cold beverages. The Bookstore offers a selection of laptop and personal computers at academic pricing. The bookstore is an Apple Authorized Campus Store. Repairs are available on Apple laptops and computers. Printers and technology related supplies are also available. The Bookstore also offers a selection of general interest books, reference books, best sellers, study aids, children's books, and magazines. Special orders are accepted for items not in stock. The Bookstore Cafe offers coffee, tea, specialty drinks and pastries.

The Bookstore is located on State University Drive East, across from the University and adjacent to Parking Structure II. VISA, MasterCard, Discover, American Express, and the Sacramento State One-Card are accepted.

The Store in the University Union  
(916) 278-7906

The Store, located in the University Union, offers school supplies, test materials, snacks, cold beverages, logo apparel, gift merchandise, and sundries.

Children's Center (Child Care)  
Atlas Cedar Way/State University Drive  
(916) 278-6216  

Established in 1972, nestled under an old grove of redwood trees, the Children's Center is owned and operated by Associated Students Inc., prioritizing services to Sac State students. Nationally Accredited since 2006, the program is dedicated to providing affordable high quality childcare by integrating current principles of Child Development, modeling best practices in the field of Early Childhood Education for children 6 months of age through kindergarten. The Center serves as an extension of the child's home, working closely with families to facilitate children's social, emotional, cognitive, and physical development. The Children's Center has a team of educators, working full-time who train, coach, and mentor over one hundred ASI student employees and interns.

The Center serves Sac State as the campus' field work and observation site.

Students may apply directly to the Center for subsidized childcare if they meet income eligibility guidelines. Children of faculty and staff may attend the Center. Waitlist applications are available on the website in the parent resource tab.

Student Health and Counseling Services  
(916) 278-6461  
www.csus.edu/shcs (http://www.csus.edu/shcs/)

Sac State is an award-winning healthy campus and hosts a state-of-the-art expanded facility which provides integrated counseling, medical, and wellness services to students. Student Health & Counseling Services (SHCS) in the WELL offers basic medical services (including Primary Care and Urgent Care), pharmacy, athletic training, mental health counseling, violence support services, and wellness education to help students maintain their wellness. We offer walk-in care for urgent illness, injuries, and urgent or crisis mental health concerns. Primary care and counseling services are located on the second floor in one integrated space. Counseling offers individual and group counseling, single session visits, urgent care mental health support, and Peer Counseling. SHCS staff includes licensed and board-certified providers and mental health clinicians who work collaboratively across disciplines to provide top-quality holistic care.

SHCS provides the following services:

• Acute illness and injury care
• Athletic Training
• Birth control methods/supplies
• Mental Health Counseling (individual, group, and urgent care)
• Health education
• Immunizations
• Nutritional counseling
• Pharmacy
• Medication Disposal
• Relaxation and mindfulness training
• Sexual/reproductive health services
• STD/STI testing & treatment
• Peer counseling
• Peer-led health education
• PEP/PrEP
• Support groups
• Transgender Care
• Confidential Violence & sexual assault support services
• Wellness Workshops
• X-ray and lab services
• Coming Soon - Dental Services

Cost & Eligibility

All currently enrolled students who pay health fees are eligible to access services. Additional fees may apply to specialty services, procedures, pharmaceuticals, vaccines and supplies. Any services received off campus are the financial responsibility of the student.

Location & Hours
SHCS is located at The WELL, and open Monday – Friday. See our website at www.csus.edu/shcs for current hours. For up-to-date notifications and wellness events, follow us on Instagram @shcsacstate.

Appointment Scheduling
Students can make appointments online at Student Health & Counseling Services | Sacramento State (csus.edu) by clicking the Patient Portal link, or by calling 916-278-6461. Please see the SHCS website for more information.

Urgent/Immediate Care – (916) 278-6461
Patients who require immediate medical attention or crisis counseling can be seen on a walk-in basis at the Urgent Care clinic located on the 1st floor of The WELL. All walk-in patients are medically evaluated and seen or scheduled for further evaluation and treatment as appropriate. An after-hours Nurse Advice Line is available by calling 916-278-6461 or 1-888-840-5169. A list of off-campus urgent care facilities and emergency resources are listed on the SHCS website at http://www.csus.edu/shcs.

Nurse Advice
Nurse Advice is available after hours and weekends to enrolled students. Students have the option of calling to speak with a registered nurse who can assist with medical concerns when Student Health & Counseling Services is closed by calling 916-278-6461 or 1-888-840-5169.

Get Involved
SHCS offers several opportunities for students to get involved:

- The Peer Health Educator (PHE) internship program is a year-long academic and hands-on learning program. PHEs actively promote health and wellness at Sac State. For more information, visit www.csus.edu/student-life/health-counseling/wellness-education/.
- The Student Health Advisory Committee (SHAC) is a student-based organization that advises campus administrators on student health issues from a student’s perspective, covering such topics as accessibility, hours of operation, scope of services, student fees, quality of care and satisfaction. Email shac@csus.edu for more information.
- Peer Counselors (PCs) are part of the Student Health and Counseling Services team and serve as an additional on-campus resource to promote safety and well-being. PCs are not trained therapists but rather support their peers through active listening and helpful problem solving. For more information visit https://bit.ly/peer-counseling.
- Student Health & Counseling Services offers employment opportunities for students in the Pharmacy and Health & Wellness Promotion. Job openings are posted on Handshake when they become available.

Confidentiality
Privacy and confidentiality are fundamental rights to all who use SHCS services. In both Health Services and Mental Health Services, students’ right to privacy is respected and no information is released without student consent, except where disclosure is required by law.

For more information on Student Health and Counseling Services visit www.csus.edu/shcs or call (916) 278-6461.

Sacramento State Police Department

Personal Safety and Protection of Public Property
Police Department Building
Police Emergency, (916) 278-6900 or dial 911 from any campus phone www.csus.edu/police
www.facebook.com/sacstatepolice
www.twitter.com/sacstatepolice

The University and the Sacramento State Police Department (formerly known as the Department of Public Safety) encourage the prompt reporting of any incident that compromises the safety, health or rights of Sacramento State community members. The Sacramento State Police Department is the primary respondent for campus emergencies and reports of criminal activity on campus. The Department is open 24-hours a day, seven days a week.

Sacramento State Police Officers are fully certified by the State of California with full arrest powers and cooperate with State and local police agencies including the Sacramento City Police and Sacramento County Sheriff’s Departments, resulting in the University’s awareness of criminal activity perpetrated beyond the campus. Reports of criminal activity will be fully investigated, and the appropriate referrals will be made with respect to subsequent action by the courts, the University, or both.

For more information on the Sacramento State Police Department’s policies and procedures, refer to Appendix K. For The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act and the Campus Fire Safety Right-To-Know Act, please access our website, https://www.csus.edu/campus-safety/clery-act.html.

Student Resources
University Library
(916) 278-5679
www.library.csus.edu

The University Library holds approximately 1.6 million books (including over 200,000 ebooks), provides access to over 100 databases, in excess of 30,000 media items, and thousands of maps, slides and pamphlets, and several million pieces of microforms and non-print media as well as subscriptions to thousands of print and online magazines, technical and scholarly journals, and newspapers. The Library is a depository for California State publications and for selected United States government materials.

OneSearch (the Library catalog and other databases) is searchable via Library computers or the Internet. Your SacLink login gives access to library resources both on and off campus.

You can ask questions, find course materials, and borrow equipment like laptops and anatomy models at the service desk located on the first floor. Items not owned by the Library can be obtained through an Interlibrary loan and document delivery service, usually provided without fee to Sacramento State students, faculty, and staff.

The second floor houses the Reference Collection and Research Help meeting spaces, as well as the Curriculum Collection that contains materials related to elementary and secondary school instruction. The California Department of Education has designated the University Library as a Learning Resources Display Center for all State adopted textbooks.
Periodicals are located on the third floor, and the main circulating collection is on floors 2, 3, 4, and lower level.

The Department of Special Collections and University Archives collects materials from California State University, Sacramento as well as items documenting the social, cultural, economic, and political history of the Sacramento region. Other special Library facilities and services include group and individual study rooms, a Family Study Room, and hundreds of computers for student use. Self-service copiers and PrintSmart stations are available on each floor. The Tsakopoulos Hellenic Collection is an extensive collection of books, journals, pamphlets, non-book materials, rare books, and manuscript materials as well as art and artifacts related to all aspects of Greek, Byzantine, and Ottoman history and culture.

Reference librarians offer subject-oriented research help and other forms of library instruction. Hands-on sessions are scheduled in the Library Instruction classrooms.

Consult the Library homepage for additional information about Library collections and services, hours, staff, maps, exhibits, instructional opportunities, subject guides, and other materials.

University Reading and Writing Center
Calaveras Hall 128
(916) 278-6356
www.csus.edu/writingcenter

The University Reading and Writing Center (URWC) is a place for all Sacramento State students to get help with reading and writing for any course or project. Trained undergraduate and graduate student tutors offer support at any stage of the writing process, including helping writers to begin an assignment and generate ideas, identify a focus for a paper, work on developing ideas, refining organization, citing sources, or clarifying language. The URWC can also help students learn how to proofread and edit their papers better. The URWC emphasizes nonjudgmental and encouraging feedback to help a student not only with a particular assignment but also with becoming a more confident college writer.

If a student is working on a writing assignment in any undergraduate major, in a writing course, or in a graduate course, it is appropriate to come to the URWC. Tutors are experienced in working with the diverse population of Sacramento State students including multilingual and multidialectal writers. Along with guidance on writing assignments, the URWC also provides help for students who are preparing to take the WPJ or other writing tests and for graduate students working on theses or projects. We also offer one unit of academic credit for regular tutoring, ENGL 121.

Appointments can be made in person in CLV 128 beginning the second week of classes each semester. Students interested in becoming a University Reading and Writing Center tutor should contact the Director.

Accessible Technology Initiative (ATI)
Sacramento State is committed to providing equal access to educational and information resources for every campus community member, including those with disabilities. Managed by Information Resources & Technology (IRT), the mission of the Accessible Technology Initiative (ATI) is to “make information technology resources and services accessible to all CSU students, faculty, staff, and the general public regardless of disability.” This encompasses the delivery of comprehensive services to students and faculty for web accessibility, instructional materials accessibility, and the accessibility of any campus-procured technology. A dedicated team of three ATI specialists in the areas of instructional materials, web development, and procurement partner with and provide consultation to campus groups including Services to Students with Disabilities, the Student Technology Center, the
High Tech Center, the Office of Equal Employment Opportunity, the Hornet Bookstore, and academic departments, among others, to ensure equal access to education for our students. Learn more at https://www.csus.edu/information-resources-technology/ati or contact ati@csus.edu.

Information Resources & Technology (IRT)

Academic Information Resources Center 3010
(916) 278-6606
www.csus.edu/irt

Information Resources & Technology (IRT) partners with faculty, staff, and students to provide essential information technology services that support mission critical activities and strategic campus goals. We actively engage our campus community to deliver high-quality services and innovative solutions that meet current and future technology needs. The IRT team is committed to communicating clearly, operating transparently, and taking a data-driven approach to continuous improvement. From log on to log off, we are a trusted partner in the shared vision to redefine the possible at Sacramento State. Faculty, staff, and students can request all IRT services online at ServiceNow or in person at the Service Desk.

IRT Service Desk
AIRC 2004
Hours: 7 days a week – visit http://csus.edu/irt/servicedesk for hours
916.278.7337
servicedesk@csus.edu
www.csus.edu/irt/servicedesk

ServiceNow – 24/7 Online Self-Service
Visit http://servicenow.csus.edu to research an IT issue through our extensive Knowledge Base, submit a request for service, check on the status of a service ticket, and more.

Student Technology Services

IRT provides extensive technology services to help students succeed, including:

Student Technology Center (STC): Drop-in training and workshops to teach students the technology needed to complete their coursework and collaborate with faculty.
AIRC 3007
(916) 278-2364
stc@csus.edu
https://www.csus.edu/information-resources-technology/

Poster Printing (STC): Print | Sacramento State (csus.edu) (https://www.csus.edu/administration-business-affairs/university-print-mail/print.html)
PrintSmart: www.csus.edu/information-resources-technology/devices-printing/printsmart.html (https://www.csus.edu/information-resources-technology/devices-printing/printsmart.html)

APPLICATIONS

• MySacState: my.csus.edu (http://my.csus.edu)
• Office 365 Applications: www.csus.edu/information-resources-technology/microsoft365/ (https://www.csus.edu/information-resources-technology/microsoft365/)
• Canvas: canvas.csus.edu/ (https://canvas.csus.edu/)

LAPTOP CHECKOUT

AIRC 2004
• Windows/Mac Laptops
• Tablets
• Video Cables
• Whiteboard Markers

Library – User Services
• Windows/Mac Laptops
• Tablets
• Video Cables

ASI Business Office
• Windows Laptops

IRT COMPUTER LABS

Operating hours at www.csus.edu/information-resources-technology/teaching-learning/computer-labs.html (https://www.csus.edu/information-resources-technology/teaching-learning/computer-labs.html)

• AIRC 1016 and 2004
• LIB 2000
• MND 2004 and 2008
• FLS 1048

24/7 VIRTUAL LAB
mycloud.csus.edu
Access Lab Software
Save to SacFiles (U Drive)

PROJECT ROOMS

Need a project room for group work? Visit AIRC 2004 to sign up.

• Collaboration Tables
• Laptop Cables
• PCs
• Large Displays
• Whiteboards

Academic Technology and Creative Services (ATCS)

Online Teaching and Learning, SacCT support, Materials Development and Creative Services Support
ARC 3005
(916) 278-3370

ATCS utilizes an integrated service approach to provide technology-based consultation, technical assistance and creative expertise in support of the teaching/learning, research, service and outreach missions of the University. Support is provided on both an individualized and global (University) basis. ATCS technology-related services include: consultation, online learning support, curricular and other materials
development, event support, hybrid/online course development, SacCT administration, and faculty & staff training.

The Sacramento State Online Teaching & Learning Program provides expanded learning opportunities using technology-mediated instructional options. Our services allow students, both regionally and globally, to access classes when they are unable to attend classes on campus. ATCS supports academic departments and programs in the development, and facilitation of matriculated courses through synchronous and asynchronous delivery systems. These systems include: online teaching and learning systems, video conferencing, and support services. ATCS also assists faculty individually and small groups in adapting their curriculum, teaching methodologies, and pedagogy for online/hybrid course delivery.

Veterans Success Center
Lassen Hall 3003
(916) 278-6733
www.csus.edu/vets (http://www.csus.edu/vets/)

Sacramento State’s Veterans Success Center (VSC) provides multifaceted assistance to prospective and enrolled student veterans and dependents. Most notably, the center assists students in accessing their GI benefits, completing the admission application process, and registering for courses. The center also helps student’s access campus resources, get involved in leadership activities, and transition into the civilian work world.

The VSC provides a lounge, where student veterans may study, socialize, network, and meet other student veterans and dependents. The VSC additionally offers many opportunities for veterans to get involved in co-curricular leadership activities - please stop by or visit the VSC Website (http://www.csus.edu/vets (http://www.csus.edu/vets/)) for more information.

The Veterans Success Center is open Monday – Friday from 8:00 AM – 5:00 PM.

Student Organizations & Leadership
University Union, Second Floor
(916) 278-6595
www.csus.edu/soal (http://www.csus.edu/soal/)

Active participation in recognized student organizations, leadership development programs, and community service enriches and improves student’s learning experience at Sacramento State. Student Organization & Leadership (SO&L) is committed to encouraging and supporting students to become involved in campus life through a variety of co-curricular and extracurricular programs.

Getting involved on campus is a great way to meet people, learn about campus resources, make lifelong friends, and enrich the total education experience on the road to graduation. Involvement also helps to make a large university such as Sacramento State seem more personal, as well as provides students with opportunities to develop the skills needed to be successful in the workplace.

Student Organizations & Leadership advises more than 300 student-led clubs and organizations that are social, religious, political, recreational, academic, cultural, fraternal, and professional. Through participation in organizations, students learn democratic processes, respect for others, develop concern for community issues, gain appreciation for aesthetics and culture, and participate in healthy recreational activities.

Student Organizations & Leadership coordinates the Leadership Initiative (LI), a co-curricular leadership certificate program open to all students that allows students an opportunity to earn certificates that show their commitment and involvement at Sacramento State. The LI is a great way for students to build up their resumes with activities outside the classroom. In addition, Student Organizations & Leadership organizes workshops, conferences, and events to help students develop cultural competence, communication skills, and have fun.

SO&L staff members are happy to connect interested students with any of the organizations registered on campus or help them start new clubs and organizations. Get involved today by visiting http://www.csus.edu/soal (http://www.csus.edu/soal/) online or come to our office on the second floor of the University Union.

Associated Students, Inc.
University Union, 3rd Floor
(916) 278-6784
www.asi.csus.edu (http://www.asi.csus.edu)

Associated Students, Inc. (ASI), a $10 million nonprofit corporation that serves as the student government at Sacramento State. Programs created and operated by ASI benefit the entire campus community. A student Board of Directors governs ASI. Elected each spring, this Board meets weekly throughout the fall and spring semesters. Students are encouraged to attend Board meetings to bring their questions and/or concerns. With numerous committees and work teams, ASI offers students an assortment of ways to get involved in campus life. Participation as an ASI employee or volunteer provides students valuable experiential work experience and important future career contacts. ASI programs include a variety of business and student services - including a Children’s Center, providing care for children ages 6 months to 5 years old, the Sacramento State Aquatic Center, ASI Peak Adventures, KSSU Radio, ASI Food Pantry, Safe Rides, and more. ASI also maintains the Hot Spot, which coordinates ASI campus life engagement and outreach. Located on the main floor of the University Union, the Hot Spot is a great place to learn about all of ASI’s services and programs. Through various grants and scholarships, ASI also contributes financial support to student clubs and organizations, other University programs, and individual students. To get involved in ASI activities, stop by the main office, call (916) 278-6784, or visit www.asi.csus.edu (http://www.asi.csus.edu/)

Student Literary Journal
Calaveras Hall 117
(916) 278-6492
www.csus.edu/org/litjrnl (http://www.csus.edu/org/litjrnl/)

An annual student run publication, Calaveras Station Literary Journal solicits submissions of student writing in the fall semester, accepting approximately 10 percent for inclusion in its spring issue. Perfect bound and professionally designed, this journal offers its readers poetry, short fiction, essays, and literary criticism from a campus-wide selection of authors. Its website provides a glimpse into the current edition as well as past issues, with lists of student editors and submission details. English Department professors serve as faculty advisors.

The State Hornet Newspaper
State Hornet Newsroom, Del Norte Hall
(916) 278-6583
University Union
(916) 278-6997
theuniversityunion.com

Campus life happens here! The University Union is a welcoming environment and central gathering place where students, faculty, staff, and alumni participate in campus life and events. The building features a host of support services and facilities to meet the ever-changing needs of the Sacramento State community.

Services
The Union houses the Hornet’s Nest Food Court, which features Panda Express, Good Eats, and The Roost. The Union is also home to Starbucks, Round Table Pizza, Jamba Juice, and Ace Sushi. In addition, Engrained restaurant offers full service dining with indoor and outdoor seating.

The Union has several amenities for students such as an information desk, games room, meditation room and foot wash station, art gallery, sleep lounge, computers and printers, various open lounge spaces and food service seating, mother’s room, a convenience store, laptop rentals, multi-device charging lockers, all gender restrooms, baby changing stations and ATMs.

Facilities
Whether you need a small conference room for 15, a banquet space for 800, or something in-between, the University Union can accommodate you. With the 14,000+ square foot multi-purpose University Ballroom, the 180 seat Hinde Auditorium and up to 25 breakout rooms, there is ample room for a variety of meetings, conferences and special events.

The Union houses many offices and programs, including Student Organizations and Leadership, Union Event Services, PRIDE Center, Women's Resource Center, CARES Office, ASI Student Engagement and Outreach, ASI Food Pantry, ASI Government, ASI Business & Student Shop, KSSU Radio, ASI Peak Adventures bike shop, New Student Orientation Office, Engrained Catering, The Lab print shop, UNIQUE Programs and the Police Service Center.

UNIQUE Programs
University Union, Third Floor
(916) 278-3928
uniqueprograms@sacstateunique.com
www.sacstateunique.com

University Union UNIQUE Programs is a student volunteer program that brings a wide variety of cultural, educational, and entertainment programs to Sac State. These activities include cultural events, performing arts, lectures, and a weekly Wednesday “Nooner” event series, as well as an array of special films, concerts, and comedy showcases, typically on Thursdays.

Students interested in participating in the planning, promotion and production of innovative, quality campus programs should contact UNIQUE to learn more.

Aquatic Center
Lake Natoma
(916) 278-2842, (916) 278-1105
www.sacstateaquaticcenter.com

The Sacramento State Aquatic Center is Northern California’s most comprehensive aquatic boating safety center and is celebrating 39 years of service to the students, faculty, staff, and alumni of Sacramento State and the Sacramento community. Located on beautiful Lake Natoma, (only 20 minutes from campus) the center provides high quality boating instruction and safety programs through education, recreation, and competition.

Established in 1981, the Center is a program of Associated Students, Inc. and also supported by the University Union of California State University, Sacramento. The program has successful partnerships with: California Department of Parks and Recreation, the U.S. Bureau of Reclamation and the California Division of Boating and Waterways.

The Aquatic Center's programs include classes for academic credit; leisure classes open to the community in: sailing, windsurfing, rowing, kayaking, stand-up paddling, canoeing, outrigger canoe, water ski, wakeboard, and “jet ski”. The Sacramento State Aquatic Center is also the home of the Sacramento State Rowing Club and Women's Rowing Team and Sacramento State Wakeboard and Water Ski Clubs. The Aquatic Center prides itself on hiring Sacramento State Students.

The Center is open to the general public as well as to Sacramento State students, faculty, staff, and alumni, who can receive a discount on boat rentals and leisure classes by showing their OneCard or Sac State Alumni Affiliation card.

Located next to Nimbus Dam at Highway 50 and Hazel Avenue, the Aquatic Center offers, Beach Reservations, Facility Reservations, Team Building Activities, Private Lessons, Summer Youth Camps and Youth Groups; additionally, there is an abundance of aquatic equipment available to rent: canoes, kayaks, stand up paddle boards, hydro bikes, rowing shells, sailboats, and windsurfing boards.

The Aquatic Center has hosted the NCAA Women’s National Championships, Intercollegiate Rowing Association Championships, US Rowing Youth National Championships, Pac 12 Conference Championships, West Coast Conference Championships, American Athletic Association Championships, Western Intercollegiate Rowing Association Championships and US Rowing Southwest District Rowing...
Intercollegiate Athletics

Intercollegiate Athletics
Athletics Center
(916) 278-6481
www.hornetsports.com (http://www.hornetsports.com/)

Sacramento State is committed to providing equal opportunities to male and female students in intercollegiate athletics. Nearly 500 student-athletes participate in the athletics program with athletic scholarships awarded to student-athletes in every sport.

The A.G. Spanos Sports Complex provides excellent facilities for football and a superior track and field facility that was selected to host the U.S. Olympic Track and Field Trials in 2000 and 2004, the NCAA Division I Outdoor Championships in 2003, 2005, 2006 and 2007, the USATF National Championships in 2014 and 2017, the Junior Olympics in 2016, and the 2018, 2019, 2023 and 2026 NCAA West Regionals.

Sacramento State was also the host institution for the 2017 NCAA Men's Basketball Tournament first and second rounds at the Golden 1 Center, and will host again in 2023. In addition, Sacramento State has been awarded the NCAA Women's Basketball third and fourth rounds in 2026. The department will also host the NCAA Men's Soccer College Cup in 2024, and the Women's Soccer College Cup in 2025.

The Nest serves as the home for women's volleyball, men's and women's basketball, and women's gymnastics. Both the baseball and softball teams had their on-campus stadiums recently renovated with the baseball field receiving permanent lights in 2016. The men's and women's soccer teams also compete in a renovated facility. The women's rowing team trains and competes at the Sacramento State Aquatic Center on Lake Natoma, rated as one of the nation's top facilities in the nation. The venue has hosted the NCAA Women's Rowing Championships on 10 occasions over the last 25 years.

The Eli and Edythe Broad Fieldhouse, a 25,000 square-foot structure at the south end of the Spanos Sports Complex, was opened in 2008. The state-of-the-art facility houses football and track and field locker rooms, offices, and meeting rooms as well as an athletic performance center, athletic training center, and equipment room.

Student-athletes benefit from quality athletic training and strength & conditioning facilities. There are six full-time athletic trainers, consulting and treating student-athletes daily. In addition, each sport has a designated strength and conditioning coach for its student-athletes.

Sacramento State competes at the Division I level of the National Collegiate Athletic Association (NCAA) and is a member of the Big Sky Conference in football (FCS), men's and women's basketball, men's and women's cross country, men's and women's indoor and outdoor track, men's and women's tennis, men's and women's golf, softball, volleyball and women's soccer. The University's baseball team competes in the Western Athletic Conference (WAC) and the gymnastics program is a member of the Mountain Pacific Sports Federation. The men's soccer and beach volleyball teams compete in the Big West Conference and the rowing team resides in the American Athletic Conference. Beach volleyball was added as Sacramento State's 21st intercollegiate sport in 2013.

Sacramento State athletics has combined to win 89 conference championships during the program's Div. I era (1991-pres.). In addition, Hornet student-athletes have achieved at least a 3.00 overall grade point average 12 consecutive semesters. Prior to that, Hornet Athletics had never achieved a grade point average higher than a 2.99.

All registered Sacramento State students with a valid One Card are admitted free of charge to regular season on-campus home athletic events.

ASI Peak Adventures

The University Union, First Floor
(916) 278-6321
www.peakadventures.org (http://www.peakadventures.org)

ASI Peak Adventures is the outdoor adventure program of Associated Students, Inc. at Sacramento State. ASI Peak Adventures provides outdoor trips, team building, a full service bike shop, and equipment rentals. They are dedicated to providing adventure education and leadership development opportunities to the campus and the community. They have been leading people on outdoor adventures since 1989 and have become the most unique, diverse, and affordable outdoor recreation provider in Northern California.

The Outdoor Trips Program is all about increasing participants' outdoor confidence and helping them feel at ease while daring to adventure away from home. All trips are beginner friendly and everyone is welcome. Outdoor trip offerings include urban adventures, backpacking, day hiking, camping, mountain biking, rock climbing, snow trips, white water rafting and more! Outdoor rental gear is also available for those looking to venture out on their own!

The Challenge Center empowers individuals and teams to achieve greater results through a personalized learning experience they won’t forget! Their skilled facilitators engage participants in interactive games that build relationships, challenging problem-solving activities that strengthen teamwork, and exciting climbing opportunities to inspire personal growth. Over 8,000 participants from Sacramento area visit this on-campus ropes course per year.

The Bike Shop is conveniently located on the Sacramento State Campus and right off the American River Bike Trail. They proudly provide friendly and professional service at reasonable prices. Highly skilled bike technicians perform repairs, sell parts and accessories, teach bike maintenance classes and offer free clinics. The Bike Shop is open to the general public; however, Sacramento State students and staff receive special discounted pricing. The Bike Shop gets cyclists and their bikes rolling for commuting and recreating.

During the summer months ASI Peak Adventures offers week-long outdoor youth camps for campers ages 8-17. For the younger kids, activities include campus tours, arts and crafts, games, water activities and lots more! Kids ages 12-15 have the chance to experience new activities each day including the Challenge Center ropes course, outdoor rock climbing, caving, hiking and white water rafting. Kids ages 15-17 have the opportunity to attend a week-long overnight camp where they expand their outdoor and leadership skill-sets in highly desirable locations such as Yosemite and Tahoe.
The WELL
(916) 278-9355
www.thewellatsacstate.com (http://www.thewellatsacstate.com)

The WELL is a 189,000 square foot facility with over 152,000 feet of
recreational space, including six volleyball courts, five basketball courts,
four racquetball courts, five fitness studios, both an indoor and outdoor
turf, an indoor track, approximately 19,000 square feet of cardio machine
and free weights, as well as the largest climbing wall in the CSU system.
All gender showers, restrooms and changing areas are available to
provide an inclusive and safe space for all WELL members. The WELL is
also the home of Student Health & Counseling Services.

Located in The WELL, the Sacramento State Campus Recreation program
provides opportunities for all students, faculty and staff to participate in
intramural sports, informal recreation, fitness classes, personal training,
and special events. In addition to structured activities, the WELL features
open recreation hours for members who would like to shoot some hoops
or run on our indoor track, as well as rock climbing for all skill levels,
racquetball courts, and much more.

Students at The WELL may work toward reaching their fitness
goals by utilizing the wide variety of cardio and strength equipment,
participating in group fitness classes, or working with one of the WELL’s
nationally-certified personal trainers. Whether students are a beginning,
intermediate or advanced exerciser, the WELL has options for everyone.
The diverse schedule of group fitness classes includes yoga, zumba,
pilates, cycling, and strength training among many others. Cardio
machines, free weights, and strength equipment are available for open
use during the building operation hours. The WELL also offers various
wellness workshops and fitness assessments opportunities to help you
reach your wellness goals.

Students may sign up as a team or as individuals for intramural sports
such as flag football, tennis, basketball, volleyball and indoor and outdoor
soccer. One day tournaments include dodgeball, golf, bowling, racquetball
and badminton just to name a few, and the WELL offers men’s, women’s
and co-recreational divisions in most sports and encourages everyone to
join the fun - regardless of previous experience or skill level.

The Women’s Resource Center (WRC)
(916) 278-7388

The Women’s Resource Center promotes gender equity through four
distinct pillars: Allyship, Feminism, Leadership, and Empowerment.
The WRC develops various programs and events aimed to increase the
awareness and understanding of the contributions, opportunities, and
barriers facing women in our society in the past and present. 2nd Floor,
University Union.

The Multi-Cultural Center (MCC)
(916) 278-6101
https://www.csus.edu/student-affairs/centers-programs/multi-cultural-center/
For more information about the College of Arts and Letters, please click here (http://www.csus.edu/al/).

Program Descriptions

Art

The Department of Art has a long-standing reputation for its quality and diversity. Courses in art education, art history, and art studio promote creativity, visual literacy, and critical thinking. Graduate and undergraduate artists have the opportunity to exhibit their work in the Else and Witt Galleries. Exhibitions of work by nationally and internationally-significant artists take place in the University Library Gallery. The department offers lectures and symposia featuring presentations by renowned art educators, art historians, and artists.

Communication Studies

One of the larger departments in the University, the Department of Communication Studies offers degrees in general communication, organizational communication, public relations, media communications, digital media, journalism, and government journalism. The department provides a television studio, dedicated computer labs, an audio-editing suite, and a high-end video editing lab. The Department supports a variety of student activities including a nationally respected debate program, Public Relations Student Society of America chapter and the University’s weekly newspaper, the State Hornet. Five of the faculty have won the College Outstanding Teacher Award in the past ten years, and key faculty are leaders in the Film program.

Design

The Department of Design prepares its students for a wide range of career opportunities in the fields of Graphic Design, Interior Design, and Photography. Our graduates are trained to work creatively and to explore new possibilities in their respective media while at the same time providing the highest quality of professional services to their clients.

The Department of Design recognizes that the environments in which we live and work are shaped by an ever-increasing quantity of visual information. This information, in the form of two and three dimensional images, comes to us from a variety of sources that utilize both traditional and technologically advanced modes of visual communication. To a greater extent than at any other point in our history, artists and designers are dissolving the boundaries between two and three dimensional visualization.

The Department of Design is well positioned to respond to the multifaceted nature of today’s visual arts. By offering degree programs in Graphic Design, Interior Design, and Photography we are able to train our students in a wide range of visual and design practices that play a part in creating our built environment. Students in the Department typically take a group of core courses that introduces them to a vocabulary of shared visual concepts and techniques before moving on to advanced study in their selected field.

The Department of Design offers Bachelor of Arts in Photography and Interior Design, and a Bachelor of Science in Graphic Design. Programs in the Department are accredited by NASAD; the Interior Design Program is also accredited by CIDA, the professional organization that establishes standards for the practice of interior design.
English
The Department of English offers a wide variety of courses in composition, creative writing, film studies, language arts, literary studies, teacher preparation, and teaching English to speakers of other languages (TESOL). The faculty are dedicated to classroom excellence, and several of our faculty have received the College Outstanding Teacher Award and the Outstanding Service Award. The Department offers student assistantships, graduate teaching associateships, internships with companies like Intel, and a variety of endowed scholarships and writing contests. Many of the M.A. graduates teach in California community colleges, while others have been accepted into some of the country’s top Ph.D. programs. Its undergraduate alumni work in a multitude of professional fields, including teaching, editing, journalism, law, literary agencies, and government.

History
The Department of History is a dynamic program, with over 500 undergraduate majors and graduate students. The department has a master’s program with options in standard and public history and offers a Ph.D. in public history in cooperation with the University of California, Santa Barbara.

Humanities and Religious Studies
The Department of Humanities and Religious Studies offers the Bachelor of Arts with two concentration options. The Humanities concentration explores cultural eras and themes through study of literature, philosophy, the visual arts, music, drama, and film. The Religious Studies concentration focuses on beliefs and practices of the world’s religions in their historical and cultural contexts. The department’s Humanities M.A. program offers graduate-level studies with areas of concentration in ancient, modern, and global humanities.

Learning Skills
The Educational Opportunity Program offers courses, workshops, and individual assistance to students at all university levels. Program areas include composition, reading, study skills, mathematics, English for multilingual speakers, and special services for students with learning disabilities.

Courses numbered Learning Skills (LS) 1 through 49 are precollege level courses. These courses carry workload credit and may be counted only toward establishing full-time enrollment status. Precollege level course units are not applicable to the bachelor’s degree. Course MLSK 199 carry regular bachelor’s degree credits.

The following are specifically for Educational Opportunity Program students and are taught by Educational Opportunity Program faculty:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ALS 39A</td>
<td>Special Problems for EOP Students</td>
<td>1 - 3</td>
</tr>
<tr>
<td>ALS 70A</td>
<td>Strategies of Learning for EOP Students</td>
<td>1</td>
</tr>
<tr>
<td>ALS 79A</td>
<td>Developing Student Leadership EOP</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

Course Repeat Policy
A student may only repeat one time the following Learning Skills Center courses (These courses may be taken a total of two times; a student enrolling in one of these a third time may be disenrolled).

Music
The School of Music has a long and impressive history of preparing students for careers in music and for assuming a leadership role in the artistic life of Northern California. The School presents over two hundred concerts each year, including many student and faculty performances as well as outstanding guest artists programs in the Festival of New American Music, the New Millennium Series, the Piano Series, and the World Music Series. The School of Music offers a major for liberal arts students as well as professional degrees at the undergraduate and graduate level.

Philosophy
The Department of Philosophy offers four concentrations within its Bachelor of Arts in Philosophy. The General Major presents the broadest choice of electives. The concentration in Ethics, Politics, and Law is a pre-law program designed to develop analytic and argumentative abilities as well as skill in applying principles to cases, which will be needed by those preparing for a career in law. The concentration in Logic and Philosophy of Science offers preparation for graduate study in those areas. The Honors Concentration builds on one of the other concentrations. The Department maintains the Center for Practical and Professional Ethics, which provides a forum for exchange of ideas as well as a consultative resource in the community.

Theatre and Dance
The Department of Theatre and Dance actors, designers, technicians, directors, dancers, and choreographers as well as individuals with an interest in the history, theory, and criticism of theatre and dance. In addition, the Department maintains a strong commitment to multicultural performance and puppetry. A rigorous production season that involves students in every step of the creative process complements the formal curriculum.

World Languages and Literatures
The Department of World Languages and Literatures provides coursework in many languages including many traditional European languages as well as other worldwide strategic languages. The exposure to foreign language enhances cultural and linguistic understanding of peoples near and far. Department faculty teach language in a cultural context that expands the learner’s worldview and increases job marketability in the ever-changing global society.

Students taking classes that meet the University’s foreign language requirement build life-changing linguistic and cultural affinities that add value to their futures; while those who complete a degree in World Languages and Literatures also develop linguistic and cultural fluency. Additionally, all students are encouraged to participate in the various exchange opportunities overseas offered by CSUS exchange partnerships and the CSU System International Program.

The University Library Gallery features exhibitions of significant works of art by international, national and regional artists. In addition, the Gallery is a favorite campus venue for many artistic gatherings, such as poetry readings sponsored by the English Department, recitals and performances by the Music Department, and film showings associated with the Department of Theatre and Dance.
with the Film program. Special guided tours of current students and community groups are offered on a regular basis.

**Contact Information**

Contact Information  
Sheree Meyer, Dean  
Christina Bellon, Associate Dean  
Melinda Wilson Ramey, Associate Dean

Mariposa Hall, Room 5000  
(916) 278-6502  
www.csus.edu/al (http://catalog.csus.edu/colleges/arts-letters/www.csus.edu/al/)

Student Success Center (SAGE)  
Calaveras Hall, Room 138  
Dena Lemus, Senior Graduation & Retention Coordinator  
Kya Webb, Integrated Advisor  
(916) 278-4464  
www.csus.edu/al/sage (http://catalog.csus.edu/colleges/arts-letters/www.csus.edu/al/sage/)

**Art**

**College of Arts and Letters**

**Program Description**

Through courses, exhibitions, lectures, and public programs, the Department of Art at Sacramento State provides an environment in which students become the next generation of artists, scholars, and educators. The department also serves the larger university student population through a robust series of introductory courses geared towards a lifelong appreciation of the arts. The Department’s curriculum is global in scope, with programs that are oriented towards creativity and critical thinking. Students make and study art through art education, art history, and studio art: ceramics, new media art, painting, printmaking, sculpture, and interdisciplinary media.

The Department of Art serves as a significant cultural resource in the region through its art exhibits, workshops, lectures, and symposia. In alignment with the university’s Anchor Initiative, the department extends its influence out into the community through the involvement of its faculty, staff, and students in public art projects, K-12 student outreach, and partnerships with cultural organizations. Internship opportunities exist with the Crocker Art Museum, Sacramento Metropolitan Arts Commission, and other public and private art institutions and galleries in the capital region. The Faculty-Led Study Abroad program enables students to study art on site in short-term international programs that are led by department faculty. Longer term study abroad opportunities are available through Sacramento State’s Office of International Programs & Global Engagement.

California State University, Sacramento is an accredited institutional member of the National Association of Schools of Art and Design (NASAD).

Visit us at http://www.csus.edu/art/.

**Degree Programs**

The department offers a BFA and an MFA in Studio Art, and BAs in Art, Art History, and Art Education. It provides a wide range of art studio, art history and art education courses. In the Studio Art programs, students develop their own visual language and content, underpinned by research and critical dialog. Art History students learn to analyze and interpret artworks within their historical and cultural contexts, ultimately producing original art historical research using various methodologies. Art Education provides students with a command of critical art education pedagogies, preparing them to be resourceful, creative, and socially engaged art educators.

BA in Art (p. 133)  
BA in Art (Art Education) (p. 136)  
BA in Art History (https://catalog.csus.edu/colleges/arts-letters/art/ba-in-art-history/)  
BA in Art Studies (Single Subject Pre-Credential Preparation) (p. 139)  
BFA in Studio Art (p. 141)  
Certificate in Curatorial Studies (p. 144)  
MA in Art (p. 144)  
MFA in S (p. 145) Studio Art (p. 145)  
Minor in Art Education (p. 147)  
Minor in Art History (p. 147)  
Minor in Studio (p. 147)

**Laptop Policy for Art Majors**

Art majors in the Art Studio (BFA), Studio Art Methods (BA), and Art Education (BA) concentrations are required to have a MacOS or Windows-based laptop by their third semester, and (for BFA students) in advance of taking the Junior Seminar. Art minors in Studio and Art Education are strongly recommended to also purchase a laptop according to the policy guidelines. Laptop specifications are provided on the Department’s website.

**Special Features**

- The Department’s main facility consists of two buildings, Kadema Hall and the Art Sculpture Lab. Art Studio and Art History courses also are taught in Mariposa Hall.
- Two art exhibition spaces, the Robert Else Gallery and the R.W. & Joyce Witt Student Art Gallery, are located in Kadema Hall. Exhibitions featuring undergraduate, graduate, and regionally and nationally known artists are held here throughout the academic year.
- Five types of Art Department awards are available. The Raymond W. and Joyce Witt Awards and the Frederick M. Peyser Studio Art Prizes are awarded annually during a juried exhibition of artwork by undergraduate students. There also is a Witt Award in Art History. The University Art Product Award is offered to undergraduate students, and the Increase Robinson Memorial Fellowships are open to all classified graduate art students.
- Five Art Department scholarships also are offered. The Peggy Saunders Hall Memorial Scholarship, the Juanita and José Montoya Memorial Art Scholarship and the Marla Chicconi Memorial Endowed Art Scholarship are all intended to support outstanding undergraduate art students who have chosen teaching as a future goal. The Ruth Rippon Ceramics Scholarship is awarded to an outstanding undergraduate or graduate Art student who shows promise in making ceramic art a career. The Jeanette B. Yuppa Scholarship and the ACE Scholarship are available to all art majors.
Faculty members have national reputations as artists and scholars. Works by Art Studio faculty can be found in major collections, including the Los Angeles County Museum, the Library of Congress, the Museum of Modern Art, the Whitney Museum of American Art, the American Craft Museum in New York; the Minneapolis Art Institute; the San Francisco Museum of Modern Art; the Di Rosa Art and Nature Preserve in Sonoma; the Art Institute of Chicago; Yale University; the Rockefeller Institute; and the Museum of Modern Art in Tokyo. Art Education and Art History faculty have published articles in nationally and internationally renowned journals, and books in prestigious academic presses.

Career Possibilities

Animator · Art Conservator · Art Consultant · Art Critic · Art Dealer · Art Historian · Art Librarian · Artist · Artist Representative · Art Teacher · Arts Administrator · Art Therapist · Ceramicist · Gallery Director · Metalsmith · Museum Work · New Media Artist · Painter · Printmaker · Sculptor · Visual Resource Curator

Contact Information

Rachel Clarke, Department Chair
Kadema Hall 185
(916) 278-6166
Department of Art Website (http://www.csus.edu/art/)

Faculty

CLARKE, RACHEL
CONNELLY, ANDREW
DOSCH, MYA
FLOHR, SARAH
GARCIA, LUIS
HARVEY, IAN
HICKS, VERONICA
MILLER, RACHEL
ORTBAL, ROBERT
PARADY, SCOTT
VENTIS, SUMMER
WILLAMS, PETER

ART 1A. Art, Religions, and Power before 1400. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

An introduction to art and visual culture from across the ancient world, including Africa, the Americas, Asia, and Europe. Students will analyze and compare art from a variety of cultures, exploring themes such as Gender, Race, and The Body, Sacred Art/Sacred Space, and Art and Power.

ART 1B. Art, Empires, and Cross-Cultural Exchange, 1400-1800. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

An introduction to art and visual culture created from 1400 to 1800 across the globe, including Africa, Asia, the Americas, and Europe. Emphasis will be placed on the role of cross-cultural exchange in the visual and material culture of the early modern world. Students will analyze and compare art from a variety of cultures, exploring themes such as War/Conquest, Art, Religion, Reform, and Conversion, The Art of Empire: Rise and Fall, and Revolution! Upheaving Social Order in the Atlantic World.

ART 1C. Global Modern and Contemporary Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A 3-unit lecture based survey of the history of world art from the late 18th century to the present, from the European Rococo, Enlightenment, age of science and revolution, through Neo-Classicism, Romanticism and the rise of the international avant-garde, Realism, Impression, Symbolism, photography and film. In the 20th century, Fauvism, Cubism, the Bauhaus, Expressionism, Pop, Minimal art, Postmodernism, Conceptualism, performance, video and new media are considered from global perspectives and artistic production. Part of the art history foundation sequence.

Note: Recommended for freshman or sophomore years; It is also recommended that ART 1A and/or ART 1B be taken before ART 1C.

ART 2. History of Islamic Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Introduces students to the art and architecture of major Islamic cultures and offers a background in the religion and philosophy of Islam. Works of art from Muslim countries and regions are studied in comparison to those of other major Asian and European cultures. Lecture. 3 units

ART 3A. Traditional Asian Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Introduces students to the art and architecture of Asia from the pre-historic through pre-modern periods (approximately 1600). The styles, subjects, and significance of the art of India, Sri Lanka, Indonesia, Thailand, Burma, Cambodia, Tibet, China, Japan and Korea will be presented in a broad context including the history, geography, ethnic populations, languages, and religions of these countries (i.e., Buddhism, Hinduism, Jainism, Islam, Daoism, and Shinto).

ART 3B. Modern and Contemporary Asian Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Covers the art and architecture of Asia from the modern period to the present day. Attention will be given to the impact of outside influences upon the development of art in several Asian countries, including India, Thailand, Vietnam, Indonesia, Philippines, China, Korea, and Japan. Contacts between those countries, their exposure to western visual culture through new or increased contact with the west, and the spread of Christianity all had an impact on Asian art during the period under consideration.
ART 4. European Visual Traditions. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only
An introduction to European art and visual culture created from ca. 800 to 1800, from the age of Charlemagne to the French Revolution and the reign of Napoleon. This course will cover painting, architecture, sculpture, and the decorative arts and will analyze creative work in the context of religious, political, and social change.

ART 5. Art of the Americas. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only
An introduction to art and visual culture from across the Americas, from ancient civilizations to the present, with an emphasis on indigenous cultural production. Students will analyze and compare creative work from a variety of cultures and time periods, exploring themes such as "Expressing Identities," "Humans in the Natural World," "Death, the Afterlife, and Living on," and "Colonization and Resistance."

ART 7. Introduction to Art and Visual Culture. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
For the general education student who wants to explore the world of art and visual culture. A wide range of multicultural, historical, and contemporary art works, art media, art history, art ideas, and art practices are presented through illustrated lectures, discussions, field trips, guest lectures, studio visits, and beginning-level art projects. Field trip(s) may be required.

ART 20A. Beginning Drawing. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring, Summer
Introduction to various techniques of and approaches to drawing, using still lifes, landscapes, and figures. Fee course.

ART 20B. Intermediate Drawing. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring
Extension of drawing experiences initiated in ART 20A, with emphasis on surveying materials and concepts pertinent to contemporary and historical drawing. Note: fee course.

ART 22. Beginning Painting. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring
Introduction to the methods and problems of painting in oil or acrylic medium. Note: May be taken twice for credit. Fee course.

ART 24. Beginning Watercolor. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Not offered
Introduction to both transparent and opaque watercolor. Note: May be taken twice for credit. Fee course.

ART 27. Beginning Color. 3 Units
Term Typically Offered: Fall, Spring
Investigation of the interactions of color based on the laws of perception, color composition, space, and design. An empirical study of the phenomena of color as developed by Josef Albers and Johannes Itten, and the use of color as a visual experience with acrylic paints.

ART 40. Beginning Printmaking. 3 Units
Prerequisite(s): ART 20A or ART 60
Term Typically Offered: Fall, Spring
Introduction to printmaking processes, their history, and their contemporary applications. Students will learn a combination of basic relief, intaglio, lithography, monotype, and/or screen print techniques, along with their historical and contemporary context. Note: Fee course. This course will carry a fee of $75 to cover ink, plates, and other supplies.

ART 40B. Basic Printmaking: Etching. 3 Units
Term Typically Offered: Fall, Spring
Introduction to intaglio techniques, including etching, drypoint, and aquatint. Fee course.

ART 40D. Basic Printmaking: Relief. 3 Units
Term Typically Offered: Fall, Spring
Introduction to wood and linoleum cutting and printing. Fee course.

ART 40E. Basic Printmaking: Silkscreen. 3 Units
Term Typically Offered: Fall, Spring
Introduction to silkscreen processes and printing. Includes the construction of the equipment necessary to print direct drawing materials, and photo-established imagery. Fee course.

ART 50. Beginning Ceramics. 3 Units
Term Typically Offered: Fall, Spring
Projects in basic techniques and approaches to the potter’s wheel. Fee course. Note: May be taken twice for credit.

ART 53. Beginning Hand-Built Ceramics. 3 Units
Term Typically Offered: Fall, Spring
Basic techniques and approaches to pottery through practice in hand-building methods, including coil, slab, pinch, and combinations thereof. Fee course. Note: May be taken twice for credit.

Fee course.
ART 60. Two-Dimensional Composition.
Term Typically Offered: Fall, Spring

Structured exploration of principles used to organize two-dimensional images. Basic art elements and their properties are explored in a series of progressive projects.
Note: Recommended for freshman or sophomore years.

ART 70. Form, Space Vision.
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Foundation in three-dimensional design primarily concerned with the visual dialogue between form and space. A heightened visual sensitivity for three-dimensional composition is a major objective of every project. Line, plane, and volume are utilized separately and in concert to construct three-dimensional forms. A variety of materials are employed in the activation of form and space: wire, cardboard, clay, wood, and plaster. Fee course.
Note: Recommended for freshman or sophomore years.

Fee course.

ART 74. Beginning Jewelry.
Term Typically Offered: Fall, Spring

Introduction to techniques and tools used in the design and fabrication of jewelry, such as lost wax casting, stone setting, and finishing processes. Emphasis is on compositional arrangement and finish. Fee course.

Fee course.

ART 75. Beginning Metalsmithing.
Term Typically Offered: Fall, Spring

Introduction to techniques, tools, and methods used in fabrication of ferrous and non-ferrous metal, such as piercing, riveting, soldering, forging, and finishing processes. Emphasis is on composition and imagery. Fee course.

Fee course.

Term Typically Offered: Fall, Spring

Develops students' awareness of traditional and contemporary techniques used as the basis for fine and applied art. Devoted to materials and their methods of application, with most materials introduced via their traditional antecedents (for example, hide glue before modern epoxies). May be team taught. Lecture one hour; laboratory four hours. Fee course.

Note: Sophomore status and above recommended.

Fee course.

ART 86. Clay Sculpture.
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Includes work with the various forms of hand-built sculpture in both low- and high-fire clay. Glazes are used sparingly to stress forms and their relationships. Fee course.

Fee course.

ART 88. Beginning Sculpture.
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Introduction to traditional and non-traditional processes of sculpture and three-dimensional forms in space. Students can expect to use the following materials: cardboard, clay, metals, plaster, plastics, wire and wood to explore the making of three-dimensional imagery. Investigations will include the formulation of ideas relative to sculptural problem solving while discovering historical and contemporary examples of sculpture. Fee course.

Fee course.

ART 97. Beginning Electronic Art.
Term Typically Offered: Fall, Spring

Explores the creative potential of imaging software used by visual artists. Familiarity with software, hardware and output devices will be established. The creation of digital art will be considered within the framework of current ideas in art and culture. No previous computer experience is necessary. Fee course.

Fee course.

ART 100. Origins of American Indian Art.
Term Typically Offered: Fall only

Survey of 19th and 20th century American Indian art. Emphasis is on the student’s involvement with Indian art and includes discussion of Indian philosophy and art techniques.

Term Typically Offered: Fall only

Introduces students to the history of photography, from inception to Mid-20th Century. Practices of photographers and artists, working with photographic technologies, will be discussed. The course examines photographic vision and the impact of the medium through lectures and readings by art historians and photographers.

Cross-listed: PHOT 101.

ART 102. Themes in World Art and Visual Culture.
Prerequisite(s): GWAR certification before Fall 2009; or WPJ score of 80 or above; or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL 109X; or WPJ score 70/71 + co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

A thematic exploration of world art and visual culture throughout human history. Throughout this course, students will be able to draw connections between works of art created in various time periods and from a diverse variety of cultural contexts.

ART 103. Art of the Ancient Mediterranean.
Prerequisite(s): ART 1A
Term Typically Offered: Fall only

Architecture, crafts, and sculpture in the ancient Mediterranean world from ca. 700 BCE to ca. 500 CE.

ART 105. Medieval Art.
Prerequisite(s): ART 1A or equivalent.
Term Typically Offered: Spring only

Architecture, crafts, painting, and sculpture of medieval Western Europe.
ART 106. Renaissance Art. 3 Units
Prerequisite(s): ART 1A or ART 1B, or equivalent.
Term Typically Offered: Fall only – even years
Architecture, painting, graphic arts, sculpture, and crafts principally of the 15th and 16th centuries. Emphasis is on the art of Europe in the historical context of an emerging global consciousness.

ART 107. Baroque and Rococo Art. 3 Units
Prerequisite(s): ART 1B or equivalent.
Term Typically Offered: Spring only – odd years
European architecture, painting, and sculpture of the 17th and 18th centuries.

ART 108. 19th Century Art. 3 Units
Prerequisite(s): ART 1C or equivalent.
Term Typically Offered: Fall, Spring
European architecture, painting, and sculpture of the 19th century.

ART 109. Modern Art. 3 Units
Prerequisite(s): Upper-division standing and ART 1C or equivalent with instructor approval.
Term Typically Offered: Fall only
Presented as the cultural episode that began with the emergence of the avant-garde in mid-nineteenth century Paris and ended in the middle of the twentieth century with WW II and the beginning of the postmodern era: from Realism, the birth of photography, and Impressionism through the high modernist movements associated with the international School of Paris, including Fauvism, Cubism, Constructivism, Dada, and Surrealism. It concludes with post-WW II expressions, including Abstract Expressionism.

ART 110. US and Caribbean Art: Race and Representation. 3 Units
Prerequisite(s): Any lower-division GE course in art history (ART 1A, 1B, 1C, 2, 3A, 3B, 4, 5, or 7).
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Spring only
Survey and investigation of selected myths from Asian cultures and traditions.

ART 111. Latin American and Latino Art History. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only
Provides an overview of Latin American and Latino art from the independence movements of the 1820s to the present. After an introductory survey of pre-Columbian and Spanish colonial art, the art of Mexico, Central and South America, the Caribbean and the U.S. is studied within the contexts of contemporaneous cultural, intellectual, political and social history. The diverse visual cultures of Latin American and Latino art are thematically unified by an examination of common concerns and motivations.

ART 112. Contemporary Art. 3 Units
Prerequisite(s): ART 1C or ART 109 or instructor permission.
Term Typically Offered: Spring only
Beginning with international Pop art and Minimalism in the 1960s, surveys the history of contemporary art from the end of avant-garde modernism to the postmodernism and globalism of today. Lectures, discussions, readings and assignments offer insights into the contexts, attitudes, and ideas behind current art and visual culture.
Note: Taught in conjunction with ART 212.

ART 113B. Asian Art and Mythology. 3 Units
Prerequisite(s): ART 3A or equivalent or instructor permission.
Term Typically Offered: Spring only – odd years
Survey and investigation of selected myths from Asian cultures and traditions.

ART 114. Topics in Early Modern Art. 3 Units
Prerequisite(s): ART 1A or ART 1B; an upper division art history course in a related subject area; upper division or post-baccalaureate status; and GWAR certification before Fall 2009; or WPJ score of 80 or above; or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL 109X; or WPJ score 70/71 + co-enrollment in ENGL 109X.
Term Typically Offered: Fall only – even years
Seminar on topics in early modern art history.
Note: Course may be taken twice for credit, if the topic is not the same.

ART 115. Topics in Asian Art. 3 Units
Prerequisite(s): Upper division or graduate status; completion of ART 3A (or equivalent); and an upper division Asian art history course such as ART 117A, ART 117B, ART 113B, or or instructor permission; GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109M/W.
Term Typically Offered: Fall only
Seminar on topics in Asian art.
ART 116.  Topics in Modern and Contemporary Art.  3 Units
Prerequisite(s): Upper division or graduate status; completion of ART 1C (or equivalent); and an upper division art history course in a related subject area (or instructor permission); GWAR certification before Fall 09, WPJ score of 70+, or at least a "C-" in ENGL 109 M/W.
Term Typically Offered: Fall only
Seminar on topics in modern and contemporary art history.

ART 117A.  Art of India and Southeast Asia.  3 Units
Prerequisite(s): ART 3A or equivalent, or instructor permission.
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only
Provides a broad overview of the architectural remains and visual arts of India and Southeast Asia from prehistory to the present. Consideration will be given to the art styles, iconography, history, geography, ethnic populations, languages, and religions (i.e., Buddhism, Hinduism, Jainism, and Islam) of each region.

ART 117B.  Art of China and Japan.  3 Units
Prerequisite(s): ART 3A or equivalent, or instructor permission.
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only
Provides a broad overview of the architectural remains and visual arts of China and Japan from prehistory to the present. Consideration will be given to the art styles, iconography, history, geography, ethnic populations, languages, and religions (i.e., Buddhism, Taoism, and Shintoism) of each region.

ART 117C.  Art of Korea.  3 Units
Term Typically Offered: Spring only – even years
Introduces students to the art and architecture of Korea from the pre-historic through contemporary periods. The styles, subjects, and significance of the art of Korea will be presented in a broad context including the history, geography, ethnic populations, languages, and religions of Korea (i.e., Buddhism, Daoism, Confucianism, and Christianity).

ART 118A.  Modern Architecture.  3 Units
Prerequisite(s): ART 1C (or equivalent), or instructor permission.
Term Typically Offered: Not offered
A survey of modern architecture which covers the architectural theories and principles underlying certain significant structures. Special consideration is given to an analysis of the works of 20th century pioneers and their followers, such as Wright, Gropius, Le Corbusier, Van der Rohe, Aalto, and Johnson, among others, and to certain movements, such as the International Style, Brutalism, and Formalism.

ART 118B.  California Architecture and Urban History.  3 Units
Term Typically Offered: Fall, Spring
Survey of the history of California architecture and its impact on the urban environment from Native Americans to the 20th century. Particular attention will be given to architecture as a symbol or statement of social, economic, and political empowerment. Cross listed as HIST 184; only one may be counted for credit.

ART 118C.  Public Art in the Americas.  3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only – odd years
Explores the major issues in the history of public art in the Americas, including monuments, memorials, murals, graffiti, and new media art. Particular attention will be given to public art in Sacramento. Field Trip. Field trip(s) may be required.

ART 119.  Directed Research in Art History.  3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring
Open to upper division art majors or minors only who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 120.  Advanced Drawing.  3 Units
Prerequisite(s): ART 20B or equivalent.
Term Typically Offered: Fall, Spring
Continuing investigation of drawing. Emphasis is on the development of individual style.
Note: May be taken twice for credit.

ART 121.  BFA Junior Studio.  3 Units
Term Typically Offered: Fall, Spring
Junior-level studio art course designed to prepare students for the senior year of the BFA degree. Course builds dialog among an interdisciplinary cohort of BFA students while engaging them with contemporary professional practices in the arts. Emphasis placed on students' ability to communicate about their work through critiques with faculty, peers, and visiting artists, preparation of professional documents and presentations. Fee course. Pre-requisite: Completion of a minimum of 3 units upper division studio coursework, second semester Junior standing with 75 units minimum.
Fee course.

ART 122A.  Intermediate Painting.  3 Units
Prerequisite(s): ART 22 or equivalent.
Term Typically Offered: Fall, Spring
Continuing investigation of the technical and conceptual issues of painting.
Note: May be taken twice for credit.

ART 122B.  Advanced Painting.  3 Units
Prerequisite(s): ART 122A, or ART 124A, or ART 125A, or ART 126, or instructor permission.
Term Typically Offered: Fall, Spring
Continuing investigation of the technical and conceptual issues of painting, with an emphasis on intensive individual exploration.
Note: May be repeated four times for credit.
ART 122C. Advanced Painting and Drawing, Experimental Studies. 3 Units

Term Typically Offered: Spring only

Following students’ work in Art 122B Advanced Painting, or Art 120 Advanced Drawing, this course will focus on investigation of experimental methods. Students will put into practice a range of experimental methods to the purpose of discovering new approaches to their medium, and new avenues for the articulation of content. Work will focus on a medium and subject matter of the student’s choice. Pre-requisite: Art 120, Advanced Drawing; or Art 122B, Advanced Painting; or permission of the instructor.

ART 123. Figure Drawing. 3 Units

Prerequisite(s): ART 20A or equivalent.

Term Typically Offered: Fall, Spring

Concentrates on the development of drawing and visual skills with emphasis on the human figure. Strong emphasis is placed on anatomical knowledge of the body and its expression through drawing techniques. The effects of volume and movement in space as well as compositional possibilities with the figure are explored. Slides are used to inform students of the drawing techniques achieved in historic and contemporary images. Fee course.

Note: May be taken for credit three times.

Fee course.

ART 124A. Intermediate Watercolor. 3 Units

Prerequisite(s): ART 24 or equivalent.

Term Typically Offered: Spring only – odd years

Continuing investigation of the technical and conceptual issues of painting, using transparent water media.

Note: May be taken twice for credit.

ART 124B. Advanced Watercolor. 3 Units

Prerequisite(s): ART 124A or equivalent.

Term Typically Offered: Fall, Spring

Continuing investigation of the techniques and conceptual issues of painting using transparent water media, with emphasis on intensive individual exploration.

Note: May be taken four times for credit.

ART 125A. Life Painting. 3 Units

Prerequisite(s): ART 20A or equivalent.

Term Typically Offered: Fall only

Painting from professional models.

Note: May be taken for credit twice. Fee course.

Fee course.

ART 125B. Life Studio. 3 Units

Prerequisite(s): ART 20A or equivalent.

Term Typically Offered: Fall, Spring

Drawing and painting from professional models. Fee course.

Note: May be taken twice for credit.

Fee course.

ART 126. Painting and Drawing in the Field. 3 Units

Prerequisite(s): ART 22 or ART 24, or equivalent.

Term Typically Offered: Fall, Spring

Further development of painting and drawing skills with emphasis on direct observation and use of color to make form. Class will meet at specific landscape sites to work, with primary focus on painting. In addition, work will be developed in the classroom based on prior field study. Critiques will examine how one situation is variously interpreted.

ART 127. Collage and Assemblage. 3 Units

Prerequisite(s): ART 20A, ART 22 and either ART 70 or ART 88 (or equivalent), or instructor permission.

Term Typically Offered: Spring only

Use of found and readily available materials to make 2-dimensional collage and 3-dimensional assemblage. Most projects are conceptual, a few purely visual, and take from one to three class periods, including critique, and class discussions.

Note: May be taken twice for credit. Fee Course

Fee course.

ART 128. Art and the Artist in the Marketplace. 3 Units

Term Typically Offered: Spring only

Study of the thought processes and preparations for presenting one’s artwork in the marketplace. An overview of what it takes to begin showing and selling artworks, including the skills and procedures of presenting artwork to galleries. A study of contracts, loan agreements, invoicing, commissions, model releases, taxes, pricing of work, resumes, slide preparation/presentation, publicity skills, and record keeping. Lecture, field trips to galleries and museums. Field trip(s) may be required.

ART 129. Painting/Drawing Studio. 3 Units

Prerequisite(s): Instructor permission and Department chair via signed petition form.

Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area.

Note: May be repeated as often as approved by advisor and Department chair.

ART 130. Theories in Art Education. 3 Units

Prerequisite(s): Upper division or graduate status; declared major in Art.

Term Typically Offered: Spring only

Overview of national and international theories in the fields of visual art and education through historical and contemporary literature with particular attention to strategies for engaging student populations in the topics.
ART 133. Art Education for Children. 3 Units
Prerequisite(s): Upper division status; declared major or minor in Art, or a declared major in Child Development, or Liberal Studies, or Blended Liberal Studies
Term Typically Offered: Fall, Spring, Summer

Intended for students who are preparing to become elementary school teachers in California, providing meaningful, thematic instruction suitable for grades 1-6. Students will explore several 21st century education approaches applicable to both elementary generalists and visual art specialists, including meaning making, visual culture, holistic integration, learner-directed, and standards-based. Students will explore and evaluate the Common Core State Standards and the California Visual and Performing Arts Standards.
Note: Fee course.

ART 134. Interdisciplinary Art. 3 Units
Prerequisite(s): ART 20A and upper division status.
Term Typically Offered: Fall, Spring

Students learn how to make connections and relationships between visual art and curriculum subjects such as ecology, history, anthropology, language arts, theatre and music. Through studio activities and interdisciplinary themes, students will learn how to integrate the California Visual Art Content Standards.

ART 135. Overview of Secondary Art Education. 3 Units
Prerequisite(s): ART 133 or instructor permission.
Term Typically Offered: Fall, Spring

Exploration of visual art and education theories, studio practices, curriculum development, and teaching strategies for art at the secondary school level. Students will explore and evaluate the National Core Arts Standards.

ART 137. Art for Exceptional Children. 3 Units
Term Typically Offered: Fall, Spring

Art is studied as a means of meeting the learning needs of atypical children, whose ages range from infancy through adolescence, and whose atypical characteristics consist of mental deficiencies, physical disabilities, emotional problems, or gifted abilities. Lectures, readings, and class discussions focus on the characteristics, and art curriculum goals of exceptional children, while studio activities provide experiences with art media. Lecture, laboratory. Fee course.

ART 139. Directed Research in Art Education. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open only to upper division art majors/minors who have successfully completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 140. Intermediate Printmaking. 3 Units
Prerequisite(s): ART 40
Term Typically Offered: Fall, Spring

Intermediate-level study of printmaking processes, their history, and their contemporary applications. This course focuses on a single set of printmaking media each semester: Intaglio, Relief/Monotype, Lithography, or Screen Printing. Students will engage with the relationship between research, content, and process to develop a body of work through assigned and self-designed projects.
Note: Fee course. This course will carry a fee of $75 to cover ink, plates, and other supplies. This course may be repeated for up to 6 units of credit.

ART 141. Advanced Silkscreen. 3 Units
Prerequisite(s): ART 40E or equivalent.
Term Typically Offered: Fall, Spring

Advanced work in silkscreen including photo-silkscreen. Emphasis is on exploration of color and imagery.
Note: May be taken for credit four times.

ART 142. 3D Computer Modeling. 3 Units
Prerequisite(s): CSC 10 or ART 97 or equivalent.
Term Typically Offered: Fall, Spring

Techniques and processes to create 3D computer models and environments. Exercises, assignments and projects designed to build skill levels with 3D computer modeling tools. Demonstrations and workshops in the use of 3D computer modeling software. Critiques, discussion and presentations to develop students’ conceptual grasp of 3D computer modeling and virtual reality environments. Example applications in art/new media and computer gaming.
Note: May be taken twice for credit. Cross-listed as CSC 126.

ART 143. 3D Computer Animation. 3 Units
Prerequisite(s): ART 142 or CSC 126.
Term Typically Offered: Fall, Spring

Creative skills and techniques for animating 3D computer-modeled objects/environments. Topics include animation techniques; keyframing and interpolation; deformation and morphing; path control; skeletal animation; model rigging and skinning; forward and inverse kinematics, constraints and IK solvers; particle systems; fluid, cloth, hair, and fur simulation; shape keys; and soft body animation. Emphasis on both skill development and creative application of modeling and animation techniques. Includes demos, in class and homework excercises, and self directed projects.
Cross-listed: CSC 127.
ART 144. Digital Printmaking. 3 Units
Prerequisite(s): ART 97 or equivalent.
Term Typically Offered: Fall, Spring

Through traditional and digital print media, the course explores the convergence of digital imaging (vector and raster processes) and printmaking techniques (such as monoprint, lithography, etching and silkscreen). Vector graphics use geometry: points, lines and fills, creating crisp re-scaleable images. Raster graphics use a rectangular grid of pixels to create continuous-tone effects. By exploring these approaches and their transference to printmaking processes, students gain deeper understanding of print technology and a more tactile awareness of image making. Fee course.

Note: May be taken twice for credit.

Fee course.

ART 145. Advanced Printmaking Studio. 3 Units
Term Typically Offered: Fall, Spring

Advanced exploration of printmaking media (etching, lithography, relief, and monoprinting techniques) within a historical framework. Students investigate the printmaking techniques of historically significant figures and apply them to their own imagery.

Note: Open to students with experience in upper division painting or photography, or lower division printmaking. May be taken twice for credit.

Fee course.

ART 146. Creative Coding. 3 Units
Prerequisite(s): ART 97 Fee course
Term Typically Offered: Fall only

Introduces techniques and artistic perspectives on interactivity and computationally-generated visual composition for New Media Artists. Nonlinear, dynamic, and generative approaches to composition, animation, video, and data processing are covered.

Note: This course is recommended for students planning to take ART 143 and ART 198.

ART 147. Video Art. 3 Units
Prerequisite(s): ART 97 or COMS 27A/FILM 27A and COMS 27B/FILM 27B.
Term Typically Offered: Fall, Spring

The creation and analysis of video artwork; including techniques of video production, post-production manipulation and critique, within the context of art and communication. The techniques and theory of producing and editing video will serve as a foundation for the pursuit of individual, creative projects.

Cross-listed as COMS 157; only one may be counted for credit.

ART 148. Barrio Art for Ethnic Groups. 3 Units
Term Typically Offered: Fall, Spring

Provides a cultural situation for students who expect to work with the Mexican American community. Involves personal contact with persons in that community. Uses poetry, music, slides, and film to understand art as a non-verbal language.

Note: May be taken twice for credit.

ART 149. Graphics/Printmaking Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition.
Term Typically Offered: Fall, Spring

Open only to upper division art majors/minors who have completed 9 units in a specialized area.

Note: May be repeated as often as approved by advisor and Department chair.

ART 150. Advanced Ceramics. 3 Units
Prerequisite(s): ART 50 or equivalent.
Term Typically Offered: Fall, Spring

Advanced study of ceramic techniques leading toward the development of an individual creative expression. Fee course.

Note: May be taken for credit four times.

Fee course.

ART 153. Hand-Built Ceramic Techniques. 3 Units
Prerequisite(s): ART 53 or equivalent.
Term Typically Offered: Fall, Spring

Specialization in hand-built clay forms. Methods of working include coil, slab, pinch, and combinations of techniques which might include some wheel-thrown parts, decoration, and glazing of forms. Fee course.

Note: May be taken for credit four times.

Fee course.

ART 159. Ceramics Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area.

Note: May be repeated as often as approved by advisor and Department chair.

ART 160. Special Topics in Art Studio. 3 Units
Prerequisite(s): ART 121
Term Typically Offered: Fall only

A range of rotating exploratory investigations in studio art practice that consider and explore various topics of interest. A requirement for students in the BFA Program.

Note: This course may use materials that are hazardous and therefore both safety training and the use of personal protective equipment (PPE) will be required.

ART 161. Photography in the Field. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring

The class visits specific sites followed by a group critique of the resulting photographic work. The course objective is to examine how one situation can be interpreted by many varied sensibilities, broadening the artist’s visual vocabulary. Students are required to create visually unified portfolio that demonstrates a sense of place.

Cross-listed: PHOT 161.
ART 162. Alternative Photographic Processes. 3 Units
**Prerequisite(s):** PHOT 141 or instructor permission.
**Term Typically Offered:** Fall, Spring

Studio course exploring alternative photographic processes that may include: printing-out paper, new cyanotype, argyrotype, and platinum-palladium. Slide discussions, individual and class critiques. Cross-listed: PHOT 162.

ART 163. Pinhole Photography. 3 Units
**Prerequisite(s):** PHOT 40 or equivalent.
**Term Typically Offered:** Fall, Spring

Intermediate course investigating the theory, history, and practice of pinhole photography. Use of student-made pinhole cameras of varying focal lengths using black and white and color materials. Emphasis on creative approach in both camera making and image formation, supported by intermediate-level photographic technique. Individual final portfolios and group exhibition of cameras and prints at conclusion of course. Cross-listed: PHOT 163.

ART 169. Photography Studio. 3 Units
**Prerequisite(s):** Instructor permission and Department chair via signed petition form.
**Term Typically Offered:** Fall, Spring

Open to upper division art majors or minors only who have completed successfully 9 units in a specialized area.
**Note:** May be repeated as often as approved by advisor and Department chair.

ART 174. Intermediate Jewelry. 3 Units
**Prerequisite(s):** ART 74 or equivalent, or instructor permission.
**Term Typically Offered:** Fall, Spring

Continued study of the techniques and tools used in metal fabrication, such as raising, tool making, chasing and repousse, and scoring/bending process. Emphasis is on development and individual style. Fee course.
**Note:** May be taken twice for credit.

Fee course.

ART 175. Intermediate Metallurgy. 3 Units
**Prerequisite(s):** Art 75.
**Term Typically Offered:** Fall, Spring

Continued exploration of techniques, tools, and methods used in fabrication of ferrous and non-ferrous metal such as cold fastening, repousse, forging, and finishing processes. Emphasis is on composition and imagery. Fee course.
**Note:** May be taken twice for credit.

Fee course.

ART 176. Advanced Jewelry. 3 Units
**Prerequisite(s):** ART 174.
**Term Typically Offered:** Fall, Spring

Focus on the development of personal style in metal fabrication and casting techniques. Students learn to build mechanical devices such as clasp systems that enhance the overall appearance of their work. Research involving historical periods in metal work.

ART 178A. Public Art Processes. 3 Units
**Term Typically Offered:** Fall only

Students will engage in the process of creating public art proposals. Along with community engagement the conception and design of a project will include historical, geographic and sociological research. Students will create professional presentations of their proposed project that consider all factors related to creating work in a public setting. Studio course engaging in model making, ideation, comprehensive investigation, collaboration, presentation and discussion. Field Trip(s) may be required. Fee course.
**Note:** may be taken twice for credit.

Fee course.
Field trip(s) may be required.

ART 178B. Public Art Studio. 3 Units
**Term Typically Offered:** Spring only

Following up on project proposals designed the previous term in ART 178A, students will engage in the process of creating public art works. The course will focus on the primary components of the project: budget, method or form, materials, dimension, transportation, engineering, permitting, installation and publicity. Students do not need to have taken 178A in order to benefit from and enroll in 178B. Field Trip(s) may be required. Fee course.
**Note:** May be taken twice for credit.

Fee course.
Field trip(s) may be required.

ART 179. Small Metals Studio. 3 Units
**Prerequisite(s):** ART 176.
**Term Typically Offered:** Fall only

Open to upper division art majors or minors only who have completed 9 units in a specialized area.
**Note:** May be repeated as often as approved by advisor and Department chair.

ART 180. Figure Sculpture. 3 Units
**Prerequisite(s):** ART 20A or equivalent.
**Term Typically Offered:** Fall only

Work from live models in clay and plaster. Construction of armatures and waste mold demonstrated. Fee course.
**Note:** May be taken for credit four times.

Fee course.

ART 182. Intermediate Sculpture. 3 Units
**Prerequisite(s):** ART 70 or ART 88 or equivalent.
**Term Typically Offered:** Fall, Spring

Intermediate explorations with traditional and non-traditional processes of sculpture, three-dimensional form and spatial relationships. Students will expect to explore concept based learning through visual problem solving while accumulating in depth techniques and skills in a variety of sculpture materials. Includes study of historical and contemporary examples of sculpture and other relevant forms of art.
**Note:** May be taken twice for credit. Fee Course
ART 183. Advanced Sculpture. 3 Units
Prerequisite(s): ART 180 or 182 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced explorations and study in sculpture, three-dimensional media and imagery and conceptual based art. Students can explore sculpture, advanced three-dimensional design, mixed media, installation art, site specificity, performance art, public art or other. Study will be both assignment based or self-directed. Fee course.

Note: May be taken twice for credit.

Fee course.

ART 187. Installation and Performance Art. 3 Units
Prerequisite(s): ART 20A and either ART 70 or ART 88 or equivalent.
Term Typically Offered: Spring only – even years

Explores the practice, theory and history of making installation and performance art. Students will study contemporary artists of this genre while designing, modeling and creating installation projects. Performances are not mandatory. Students will exhibit their works in traditional campus galleries alternative spaces. Emphasizes individual investigation and discovery while remaining open to collaborative projects that may cross disciplines. Fee course.

Note: may be taken twice for credit.

Fee course.

ART 189. Sculpture Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area. Fee course.

Note: May be repeated as often as approved by advisor and Department chair.

Fee course.

ART 191. Film as an Art Form. 3 Units
Term Typically Offered: Fall, Spring

Wide range of theory and criticism of film, photography, and painting in the 20th century is presented from which the student may cultivate a coherent critical awareness. The development of realism in Western art, the photographic image, narrative in film, montage, and the development of cinematography will be included with special attention given to the films of D.W. Griffith, Sergei Eisenstein, Jean Renoir, Alfred Hitchcock, and Orsen Welles.

ART 192A. Senior Seminar in Studio Art. 3 Units
Prerequisite(s): Senior status (90 overall units), completion of 30 units of art studio courses, and (GWAR certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109 M/W).
Term Typically Offered: Fall, Spring

Culminating studio art course designed to deepen experiences in diverse visual arts. Emphasis placed on independent studio practice with additional development in verbal and written skills in a variety of art disciplines. Participation in BA candidate exhibition required in the second enrolled semester for completion of the course.

Note: Must be taken twice. Cannot be taken twice in the same semester.

ART 192B. Senior Seminar in Art History. 3 Units
Prerequisite(s): Senior status, completion of all lower-division major requirements, HIST 100, and GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Focuses on the research, writing, and oral presentation of a 25-35 page thesis in the student's area of interest. Seminar readings, discussions, and weekly workshops support the thesis project and develop basic career skills. Explores how to employ traditional and new research technologies and develops writing skills. Career topics include how to locate appropriate jobs, professional schools, and graduate programs; how to write professional resumes, correspondence, including graduate school and grant applications.

ART 192C. Senior Seminar in Art Education. 3 Units
Prerequisite(s): Senior status, and ART 130, ART 133, ART 134, and ART 135.
Term Typically Offered: Fall only

Relates current art education theories to teaching practices in elementary and secondary classrooms, and museum/gallery settings. Teaching practices in a classroom or gallery/museum setting will connect to curriculum materials developed.

ART 193. Curatorial Projects. 3 Units
Term Typically Offered: Fall only

Through this course, students will directly participate in the planning and execution of curatorial projects in the visual arts, including the creation of physical and/or virtual art exhibitions in museums, galleries, and/or public spaces. Career possibilities are presented through field trips and class visits by professionals in the field. The focus is on practical experience, as well as history and theory. Field trip(s) may be required.

ART 193B. Introduction to Curatorial Studies. 3 Units
Term Typically Offered: Spring only

This course provides the foundation needed for professionally managing and displaying objects held in art collections. Through readings, small group discussions, field trips, guest lectures, and the directed experience of creating an exhibition of artworks from the Sacramento State Art Department collection, students learn the basics of curatorial studies and art collection management. Field trip.

Field trip(s) may be required.

ART 194. BFA Senior Project. 3 Units
Prerequisite(s): Second semester Senior standing in BFA program with a minimum 63 units in the major.
Term Typically Offered: Fall, Spring

Under the mentorship of a faculty advisor, students develop a body of work to be exhibited in the BFA exhibition. Emphasis placed on engagement with research, content, and the process to produce professional quality work in preparation for graduate study and/or careers in the arts.
ART 195.  Fieldwork.  1 - 3 Units
Term Typically Offered: Fall, Spring
Directed observation and work experience with public agencies. Field work is offered for the purpose of giving students orientation in occupational specialties. Supervision is provided by both the instructional staff of the University and the cooperating agencies. Each student is required to maintain a record of activities and assignments, and to prepare periodic reports. The student must make arrangements with a faculty member for a work program prior to admittance to the course. Credit/No Credit

ART 196.  Experimental Offerings in Art.  1 Unit
Term Typically Offered: Fall, Spring
Undergraduate seminar in art, to be scheduled as needed.

ART 196W.  Protest and Play: Northern California Art of the 1970s.  3 Units
Prerequisite(s): Upper-division standing, and Art 1B or Art 1C, or instructor permission
Term Typically Offered: Fall only – odd years
From the humor and wit of Funk through the politically engaged art of the Black Power, Chicano, Native Californian, and Feminist movements, this class surveys the history of Northern California art of the 1970s with a focus on the greater Sacramento region and art and artists emerging from the era's defining protest movements. Lectures, discussions, readings, and assignments offer insights into the outstanding vitality and historical significance of this art world. Field Trip(s) Field trip(s) may be required.

ART 197.  Intermediate Electronic Art.  3 Units
Prerequisite(s): ART 97, or equivalent experience, such as PHOT 11, Introduction to Digital Imaging.
Term Typically Offered: Fall, Spring
Explores the creative potential of digital imaging and multimedia art making techniques. Teaching methods will include hands on demonstrations, lab workshops, creative projects, reading assignments, seminars, discussion and critiques. The development of technical fluency will be stressed, and the creative potential of digital media within the framework of contemporary art, design and culture will be emphasized. Fee course.
Note: Proficiency in MAC-OS recommended. May be taken for credit three times.

Fee course.

ART 198.  Advanced Electronic Art.  3 Units
Prerequisite(s): ART 197, or equivalent experience, evidenced in portfolio.
Term Typically Offered: Fall only
Utilizes the creative potential of electronic media to create art projects, working within the conceptual framework of developments in contemporary culture using a range of available software programs. An experimental and exploratory approach to the digital medium in concept, process and execution of work is encouraged. Fee course.
Note: Proficiency in MAC-OS recommended. May be taken for credit three times.

Fee course.

ART 199.  Special Problems.  1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Open only to students who are competent to carry on individual work.
Note: Departmental petition required.
Credit/No Credit

ART 201A.  Mentored Individual Studio Practice 1.  3 Units
Prerequisite(s): Graduate Art Student Status or Instructor Permission
Term Typically Offered: Fall only
Individual studio guidance and instruction, semester 1 of 3. Students establish their individual studio practice and the research that informs it. Students work independently, meeting with an advisor regularly to evaluate their progress and work through problems. In 201A, students establish a graduate-level studio practice and the research and habits that surround it. Students take an exploratory approach, experimenting with content and methods to create a breadth of work for evaluation and discussion at the first-semester review. Supervisory Course.

ART 201B.  Mentored Individual Studio Practice 2.  3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission, and ART 201A
Term Typically Offered: Spring only
Individual studio guidance and instruction, semester 2 of 3. Students maintain their individual studio practice and the research that informs it. Students work independently, meeting with an advisor regularly to evaluate their progress and work through problems. In the second semester, emphasis is placed on focusing students' studio practice and research to create a body of work for presentation at the first-year review. Supervisory Course.

ART 201C.  Mentored Individual Studio Practice 3.  3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission, and ART 201A and ART 201B
Term Typically Offered: Fall only
Individual studio guidance and instruction, semester 3 of 3. Students expand upon their individual studio practice and the research that informs it. Students work independently, meeting with an advisor regularly to evaluate their progress and work through problems. In the third semester, emphasis is placed on preparing a cohesive body of work for the advancement to candidacy exhibition and review. Supervisory Course.

ART 206.  Art Theory and Criticism.  3 Units
Term Typically Offered: Fall only
Seminar discussions of essential readings in Western aesthetic philosophy and contemporary art theory and criticism. Stress is placed on the conceptualization of the student's own graduate production.
Note: Required for students in art graduate program; Graduate Writing Intensive (GWI) course.

ART 207.  Graduate Studio and Critique.  3 Units
Term Typically Offered: Fall, Spring
Graduate Studio and Critique focuses on the development of students' individual studio practice, while bringing that practice into dialog with others. Class time is divided between group critiques and individual studio work time.
ART 208. Intensive Graduate Studio and Critique. 6 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission
Term Typically Offered: Fall, Spring

Intensive Graduate Studio and Critique focuses on the development of students' individual studio practice, while bringing that practice into dialog with others. Class time is divided between group critiques and individual studio work time. In ART 208, students increase the depth and focus of their work, as well as their engagement in critiques.

Note: May be repeated as often as approved by advisor and Department chair.

ART 212. Contemporary Art. 3 Units
Prerequisite(s): Modern Art History: Art 1B or ART 109 or equivalent or instructor permission.
Term Typically Offered: Spring only

Beginning with international Pop art and Minimalism in the 1960s, surveys the history of contemporary art from the end of avant-garde modernism to the postmodernism and globalism of today. Lectures, discussions, readings and assignments, offer insights into the contexts, attitudes and ideas behind current art and visual culture.

Note: Students who earned a grade of B or higher in ART 112 can fulfill the requirements for ART 212 by taking a one-unit supplemental ART 299 to satisfy graduate level criteria.

ART 219. Directed Research in Art History. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.

Note: May be repeated as often as approved by advisor and Department chair.

ART 220. Advanced Problems in Painting and Drawing. 3 Units
Prerequisite(s): ART 122B, graduate art student status, or instructor permission.
Term Typically Offered: Fall, Spring

Special problems in painting and drawing.

Note: May be taken twice for credit.

ART 222. Studio Critique Seminar. 3 Units
Term Typically Offered: Fall, Spring

Critique seminar taught by one or more instructors representing different creative experiences.

Note: Required for students in the art studio graduate program, every semester until the final review has been passed. Only 6 units may be applied toward the degree program. Open only to classified graduate students.

ART 222A. Graduate Seminar 1. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission
Term Typically Offered: Fall only

This course builds dialogue among an interdisciplinary cohort of MFA students while engaging them with contemporary issues and professional practices in the arts. Students discuss readings, attend lectures, prepare for program milestones, and produce and discuss professional documents and presentations. The first-semester graduate students focus is on beginning to develop their professional documents in preparation for the first-semester review while contextualizing their current studio practice. First three weeks of class are dedicated to first-year orientation. Seminar. Semester 1 of 4.

ART 222B. Graduate Seminar 2. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission, and ART 222A
Term Typically Offered: Spring only

This course builds dialogue among an interdisciplinary cohort of MFA students while engaging them with contemporary issues and professional practices in the arts. Students discuss readings, attend lectures, prepare for program milestones, and produce and discuss professional documents and presentations. The second-semester graduate students' focus is on further developing their professional documents in preparation for the first-year review while continuing to contextualize their current studio practice. Seminar. Semester 2 of 4.

ART 222C. Graduate Seminar 3. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission, and ART 222A and ART 222B
Term Typically Offered: Spring only

This course builds dialogue among an interdisciplinary cohort of MFA students while engaging them with contemporary issues and professional practices in the arts. Students discuss readings, attend lectures, prepare for program milestones, and produce and discuss professional documents and presentations. The third-semester graduate students' focus is on further developing their professional documents in preparation for the advancement to candidacy exhibition and review while continuing to contextualize their current studio practice. Seminar. Semester 3 of 4.

ART 222D. Graduate Seminar 4. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission, and ART 222A, ART 222B, and ART 222C
Term Typically Offered: Spring only

This course builds dialogue among an interdisciplinary cohort of MFA students while engaging them with contemporary issues and professional practices in the arts. Students discuss readings, attend lectures, prepare for program milestones, and produce and discuss professional documents and presentations. The fourth-semester graduate students' focus is on further developing their professional documents in preparation for the final MFA exhibition and review while continuing to contextualize their current studio practice. Seminar. Semester 4 of 4.
ART 229. Painting/Drawing Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 231. Teaching Practicum. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission
Term Typically Offered: Fall, Spring

Instruction on the methods and procedure of running a studio art course. Practical experience working with and instructing undergraduate students. Applying skills in the student's expertise to the art of teaching in tandem with supervisory instructor. Supervisory course.

ART 239. Directed Research in Art Education. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 249. Graphics/Printmaking Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 259. Ceramics Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 269. Photography Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 279. Crafts/Art Metal Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 283. Graduate Sculpture. 3 Units
Prerequisite(s): Graduate Art student status, or instructor permission.
Term Typically Offered: Fall, Spring

Special problems in sculpture, mixed media, installation art, site specific art, performance art, public art or other. Students will engage in self-directed projects while participating in sculpture studio forum and critiques.
Note: may be taken twice for credit

ART 289. Sculpture Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified graduate students only. Fee course.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

Fee course.

ART 297. New Media 1. 3 Units
Term Typically Offered: Spring only

Students will work on self-directed new media projects with the supervision of the instructor. The work will focus on projects that are either entirely based on digital image and/or animation, or on works that also utilize other media or processes combined with digital image or animation, such as intermedia, mixed media and installation work. This course also includes reading assignments, critique and discussion.
Note: May be repeated twice for credit.

ART 298. New Media 2. 3 Units
Term Typically Offered: Fall only

Students will work on self-directed video and new media with the supervision of the instructor. The work will focus on projects that are either entirely based in new media and video, or on works that also utilize other media or processes combined with video and/or interactive processes, such as intermedia, mixed media and installation work. The course also includes reading assignments, critique and discussion.
Note: May be taken twice for credit.

ART 299. Special Problems. 1 - 3 Units
Prerequisite(s): Open only to graduate art students competent to carry on individual work. Admission requires approval of the faculty member who will direct the work and of the Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Only 6 units may be applied toward the degree program.
Credit/No Credit

ART 305. Art in the Public School. 3 Units
Prerequisite(s): Enrollment in the art teaching credential program.
Term Typically Offered: Fall, Spring

Art teaching methods and programs for public school grades K-12. Must be taken during Phase I or II of student teaching.

ART 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of student's project committee.
Term Typically Offered: Fall, Spring

Culminating exhibition of student work.
ART 500A. Culminating Experience Thesis. 3 Units
Prerequisite(s): Graduate Art Student Status and Instructor Permission.
Corequisite(s): ART 500B.
Term Typically Offered: Spring only

Guidance with written thesis as it pertains to the final body of work. Students will work with individual faculty to develop and complete thesis objective(s), outline and organize imagery as it pertains to the final body of work and create a final written document for digital publication. Supervisory course.

ART 500B. Culminating Experience Exhibition. 3 Units
Prerequisite(s): Graduate Art Student Status and Instructor Permission.
Corequisite(s): ART 500A.
Term Typically Offered: Spring only

Graduating cohort instruction for final MFA Exhibition including final proposal, exhibition catalogue, curatorial studio visit and selection, MFA exhibition catalogue and promotional material.

BA in Art

Units required for Major: 48
Total units required for BA: 120

Program Description

The Bachelor of Arts in Studio Art is a four-year program that gives students a foundation to pursue a broad range of careers in the arts. The B.A. program provides students with an overview of the fine art areas of ceramics, drawing, painting, printmaking, sculpture, interdisciplinary and new media art. The studio curriculum of the B.A. program emphasizes breadth of experience alongside technical competence and creative experimentation and prepares students for a variety of post-graduate pursuits. The curriculum also provides a foundation in visual art thinking, contemporary art history and critical theory through a global lens. The degree is designed for undergraduate students who want to combine broad and innovative studio art practice with an outstanding education in the liberal arts.

Courses, programs, and exhibitions sponsored by the Art Department serve to engage students in the visual arts within a liberal arts context and to promote appreciation of the fine arts in the general student population. Fieldwork experiences can be arranged with the Crocker Art Museum, Sacramento Metropolitan Arts Commission, and other public and private art institutions and galleries in the Capital region. Opportunities to study art and art history abroad are available through the Office of International Programs and Global Engagement at Sacramento State and the California State University International Program. University credit can be obtained for a semester to a year of study at college and international centers in Britain, Europe, Latin America, Asia, Africa, and Australia.

California State University, Sacramento is an accredited institutional member of the National Association of Schools of Art and Design (NASAD).

Minimum Grade Requirements

A minimum grade of "C" is required in all courses applied to the BA in Studio Art.

Notes:

- Whenever possible, classes should be selected in consultation with a faculty advisor.
- It is recommended that students complete a minimum of 75% of the lower division requirements (20 units) before enrolling in upper division courses while recognizing and following prerequisite requirements.
- Lower division prerequisites for some courses may be waived on the advisement of an Art instructor and a portfolio review.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1C</td>
<td>Global Modern and Contemporary Art</td>
<td>1</td>
</tr>
<tr>
<td>ART 20A</td>
<td>Beginning Drawing</td>
<td>1</td>
</tr>
<tr>
<td>ART 20B</td>
<td>Intermediate Drawing</td>
<td>1</td>
</tr>
<tr>
<td>ART 22</td>
<td>Beginning Painting</td>
<td></td>
</tr>
<tr>
<td>ART 40</td>
<td>Beginning Printmaking</td>
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<tr>
<td>ART 53</td>
<td>Beginning Hand-Built Ceramics</td>
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</tr>
<tr>
<td>ART 70</td>
<td>Form, Space Vision</td>
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</tr>
<tr>
<td>ART 97</td>
<td>Beginning Electronic Art</td>
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</tr>
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</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1A</td>
<td>Art, Religions, and Power before 1400</td>
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</tr>
<tr>
<td>ART 1B</td>
<td>Art, Empires, and Cross-Cultural Exchange, 1400-1800</td>
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</tr>
<tr>
<td>ART 2</td>
<td>History of Islamic Art</td>
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<tr>
<td>ART 3A</td>
<td>Traditional Asian Art</td>
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<tr>
<td>ART 3B</td>
<td>Modern and Contemporary Asian Art</td>
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<tr>
<td>ART 4</td>
<td>European Visual Traditions</td>
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<tr>
<td>ART 5</td>
<td>Art of the Americas</td>
<td></td>
</tr>
</tbody>
</table>

Required Upper Division Studio Core Courses

Select four courses from one of the following studio course groups or, in consultation with two faculty members, select four courses from the studio course groups to build an interdisciplinary focus.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>Advanced Drawing (may be taken twice for credit)</td>
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<tr>
<td>ART 123</td>
<td>Figure Drawing (may be taken for credit three times)</td>
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</tr>
<tr>
<td>ART 125B</td>
<td>Life Studio (may be taken twice for credit)</td>
<td></td>
</tr>
<tr>
<td>ART 127</td>
<td>Collage and Assemblage (may be taken twice for credit)</td>
<td></td>
</tr>
<tr>
<td>ART 129</td>
<td>Painting/Drawing Studio (May be repeated as often as approved by advisor and Department chair.)</td>
<td></td>
</tr>
<tr>
<td>ART 199</td>
<td>Special Problems</td>
<td></td>
</tr>
</tbody>
</table>

Drawing Group

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 122A</td>
<td>Intermediate Painting (may be taken twice for credit)</td>
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</tr>
<tr>
<td>ART 122B</td>
<td>Advanced Painting (may be taken four times for credit)</td>
<td></td>
</tr>
<tr>
<td>ART 125A</td>
<td>Life Painting (may be taken twice for credit)</td>
<td></td>
</tr>
<tr>
<td>ART 125B</td>
<td>Life Studio (may be taken twice for credit)</td>
<td></td>
</tr>
<tr>
<td>ART 126</td>
<td>Painting and Drawing in the Field</td>
<td></td>
</tr>
<tr>
<td>ART 127</td>
<td>Collage and Assemblage (may be taken twice for credit)</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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</tr>
<tr>
<td>ART 129</td>
<td>Painting/Drawing Studio (May be repeated as often as approved by advisor and Department chair)</td>
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<tr>
<td>ART 199</td>
<td>Special Problems</td>
<td></td>
</tr>
<tr>
<td><strong>Printmaking Group</strong></td>
<td></td>
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<tr>
<td>ART 127</td>
<td>Collage and Assemblage (may be taken twice for credit)</td>
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</tr>
<tr>
<td>ART 140</td>
<td>Intermediate Printmaking (may be taken twice for credit)</td>
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<tr>
<td>ART 144</td>
<td>Digital Printmaking (may be taken twice for credit)</td>
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</tr>
<tr>
<td>ART 149</td>
<td>Graphics/Printmaking Studio (may be repeated as often as approved by advisor and department chair)</td>
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</tr>
<tr>
<td>ART 199</td>
<td>Special Problems</td>
<td></td>
</tr>
<tr>
<td><strong>Sculpture Group</strong></td>
<td></td>
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</tr>
<tr>
<td>ART 127</td>
<td>Collage and Assemblage (may be taken twice for credit)</td>
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<tr>
<td>ART 142/</td>
<td>3D Computer Modeling (may be taken twice for credit)</td>
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<tr>
<td>CSC 126</td>
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<tr>
<td>ART 178A</td>
<td>Public Art Processes (may be taken twice for credit)</td>
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<tr>
<td>ART 178B</td>
<td>Public Art Studio (may be taken twice for credit)</td>
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<tr>
<td>ART 180</td>
<td>Figure Sculpture (may be taken four times for credit)</td>
<td></td>
</tr>
<tr>
<td>ART 182</td>
<td>Intermediate Sculpture (may be taken twice for credit)</td>
<td></td>
</tr>
<tr>
<td>ART 183</td>
<td>Advanced Sculpture (may be taken twice for credit)</td>
<td></td>
</tr>
<tr>
<td>ART 187</td>
<td>Installation and Performance Art (may be taken twice for credit)</td>
<td></td>
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<tr>
<td>ART 189</td>
<td>Sculpture Studio (May be repeated as often as approved by advisor and Department chair)</td>
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<tr>
<td>ART 199</td>
<td>Special Problems</td>
<td></td>
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<tr>
<td><strong>Ceramics Group</strong></td>
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<tr>
<td>ART 150</td>
<td>Advanced Ceramics (may be taken four times for credit)</td>
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<tr>
<td>ART 153</td>
<td>Hand-Built Ceramic Techniques (may be taken four times for credit)</td>
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<tr>
<td>ART 159</td>
<td>Ceramics Studio (May be repeated as often as approved by advisor and Department chair)</td>
<td></td>
</tr>
<tr>
<td>ART 180</td>
<td>Figure Sculpture (may be taken four times for credit)</td>
<td></td>
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<tr>
<td>ART 199</td>
<td>Special Problems</td>
<td></td>
</tr>
<tr>
<td><strong>New Media Group</strong></td>
<td></td>
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</tr>
<tr>
<td>ART 142/</td>
<td>3D Computer Modeling (may be taken twice for credit)</td>
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<tr>
<td>CSC 126</td>
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<tr>
<td>ART 143/</td>
<td>3D Computer Animation</td>
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<tr>
<td>CSC 127</td>
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<tr>
<td>ART 144</td>
<td>Digital Printmaking (may be taken twice for credit)</td>
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<tr>
<td>ART 146</td>
<td>Creative Coding</td>
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<tr>
<td>ART 147/</td>
<td>Video Art</td>
<td></td>
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<tr>
<td>COMS 157</td>
<td></td>
<td></td>
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<tr>
<td>ART 187</td>
<td>Installation and Performance Art (may be taken twice for credit)</td>
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<tr>
<td><strong>ART/PHOT 162</strong></td>
<td>Alternative Photographic Processes</td>
<td></td>
</tr>
<tr>
<td>ART 197</td>
<td>Intermediate Electronic Art (may be taken three times for credit)</td>
<td></td>
</tr>
<tr>
<td>ART 198</td>
<td>Advanced Electronic Art (may be taken three times for credit)</td>
<td></td>
</tr>
<tr>
<td>ART 199</td>
<td>Special Problems</td>
<td></td>
</tr>
</tbody>
</table>

**Upper Division Art History Elective Requirement 3**

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ART 100</td>
<td>Origins of American Indian Art</td>
</tr>
<tr>
<td>ART 102</td>
<td>Themes in World Art and Visual Culture</td>
</tr>
<tr>
<td>ART 103</td>
<td>Art of the Ancient Mediterranean</td>
</tr>
<tr>
<td>ART 105</td>
<td>Medieval Art</td>
</tr>
<tr>
<td>ART 106</td>
<td>Renaissance Art</td>
</tr>
<tr>
<td>ART 107</td>
<td>Baroque and Rococo Art</td>
</tr>
<tr>
<td>ART 108</td>
<td>19th Century Art</td>
</tr>
<tr>
<td>ART 109</td>
<td>Modern Art</td>
</tr>
<tr>
<td>ART 110</td>
<td>US and Caribbean Art: Race and Representation</td>
</tr>
<tr>
<td>ART 111</td>
<td>Latin American and Latino Art History</td>
</tr>
<tr>
<td>ART 112</td>
<td>Contemporary Art</td>
</tr>
<tr>
<td>ART 113B</td>
<td>Asian Art and Mythology</td>
</tr>
<tr>
<td>ART 114</td>
<td>Topics in Early Modern Art</td>
</tr>
<tr>
<td>ART 115</td>
<td>Topics in Asian Art</td>
</tr>
<tr>
<td>ART 116</td>
<td>Topics in Modern and Contemporary Art</td>
</tr>
<tr>
<td>ART 117A</td>
<td>Art of India and Southeast Asia</td>
</tr>
<tr>
<td>ART 117B</td>
<td>Art of China and Japan</td>
</tr>
<tr>
<td>ART 117C</td>
<td>Art of Korea</td>
</tr>
<tr>
<td>ART 118A</td>
<td>Modern Architecture</td>
</tr>
<tr>
<td>ART 118B/</td>
<td>California Architecture and Urban History</td>
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<tr>
<td>HIST 184</td>
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<tr>
<td>ART 118C</td>
<td>Public Art in the Americas</td>
</tr>
<tr>
<td>ART 191</td>
<td>Film as an Art Form</td>
</tr>
</tbody>
</table>

**Studio Breadth Elective Requirement 3**

Select one upper division studio course or one of the lower division studio courses listed below:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 50</td>
<td>Beginning Ceramics</td>
</tr>
<tr>
<td>ART 60</td>
<td>Two-Dimensional Composition</td>
</tr>
<tr>
<td>ART 88</td>
<td>Beginning Sculpture</td>
</tr>
<tr>
<td>PHOT 11</td>
<td>Digital Photography I</td>
</tr>
<tr>
<td>PHOT 40</td>
<td>Darkroom Photography</td>
</tr>
<tr>
<td>ART 160</td>
<td>Special Topics in Art Studio</td>
</tr>
<tr>
<td>ART 120</td>
<td>Advanced Drawing</td>
</tr>
<tr>
<td>ART 121</td>
<td>BFA Junior Studio</td>
</tr>
<tr>
<td>ART 122A</td>
<td>Intermediate Painting</td>
</tr>
<tr>
<td>ART 122B</td>
<td>Advanced Painting</td>
</tr>
<tr>
<td>ART 123</td>
<td>Figure Drawing</td>
</tr>
<tr>
<td>ART 125A</td>
<td>Life Painting</td>
</tr>
<tr>
<td>ART 125B</td>
<td>Life Studio</td>
</tr>
<tr>
<td>ART 126</td>
<td>Painting and Drawing in the Field</td>
</tr>
<tr>
<td>ART 127</td>
<td>Collage and Assemblage</td>
</tr>
<tr>
<td>ART 129</td>
<td>Painting/Drawing Studio</td>
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<tr>
<td>ART 140</td>
<td>Intermediate Printmaking</td>
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<tr>
<td>ART 144</td>
<td>Digital Printmaking</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>ART 145</td>
<td>Advanced Printmaking Studio</td>
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<tr>
<td>ART 149</td>
<td>Graphics/Printmaking Studio</td>
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<tr>
<td>ART 150</td>
<td>Advanced Ceramics</td>
</tr>
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<td>ART 153</td>
<td>Hand-Built Ceramic Techniques</td>
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<td>ART 178A</td>
<td>Public Art Processes</td>
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<td>ART 178B</td>
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<td>ART 180</td>
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<td>ART 182</td>
<td>Intermediate Sculpture</td>
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<td>3D Computer Modeling</td>
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<td>Video Art</td>
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<td>ART 162</td>
<td>Alternative Photographic Processes</td>
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<td>ART 197</td>
<td>Intermediate Electronic Art</td>
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<td>ART 198</td>
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<td>ART 199</td>
<td>Special Problems</td>
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</table>

**Upper Division Breadth Elective Requirement**

Select any upper division Art Studio, Art History, or Art Education course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ART 100</td>
<td>Origins of American Indian Art</td>
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<tr>
<td>ART 102</td>
<td>Themes in World Art and Visual Culture</td>
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<tr>
<td>ART 103</td>
<td>Art of the Ancient Mediterranean</td>
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<td>ART 105</td>
<td>Medieval Art</td>
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<td>ART 107</td>
<td>Baroque and Rococo Art</td>
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<td>ART 108</td>
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<td>Modern Art</td>
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<td>ART 110</td>
<td>US and Caribbean Art: Race and Representation</td>
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<td>ART 111</td>
<td>Latin American and Latino Art History</td>
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<td>ART 112</td>
<td>Contemporary Art</td>
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<tr>
<td>ART 113B</td>
<td>Asian Art and Mythology</td>
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<tr>
<td>ART 114</td>
<td>Topics in Early Modern Art</td>
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<tr>
<td>ART 115</td>
<td>Topics in Asian Art</td>
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<tr>
<td>ART 116</td>
<td>Topics in Modern and Contemporary Art</td>
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<td>ART 117A</td>
<td>Art of India and Southeast Asia</td>
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<td>ART 117B</td>
<td>Art of China and Japan</td>
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<td>ART 117C</td>
<td>Art of Korea</td>
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<td>ART 118A</td>
<td>Modern Architecture</td>
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<td>ART 118B</td>
<td>California Architecture and Urban History</td>
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<td>ART 118C</td>
<td>Public Art in the Americas</td>
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<td>Directed Research in Art History</td>
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<td>ART 120</td>
<td>Advanced Drawing</td>
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<td>BFA Junior Studio</td>
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<td>ART 122B</td>
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<td>ART 123</td>
<td>Figure Drawing</td>
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<td>ART 125A</td>
<td>Life Painting</td>
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<td>ART 125B</td>
<td>Life Studio</td>
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<td>ART 126</td>
<td>Painting and Drawing in the Field</td>
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<td>ART 127</td>
<td>Collage and Assemblage</td>
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<td>ART 128</td>
<td>Art and the Artist in the Marketplace</td>
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<td>ART 129</td>
<td>Painting/Drawing Studio</td>
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<td>ART 130</td>
<td>Theories in Art Education</td>
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<td>ART 131</td>
<td>Art Education for Children</td>
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<td>ART 134</td>
<td>Interdisciplinary Art</td>
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<td>ART 135</td>
<td>Overview of Secondary Art Education</td>
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<td>ART 137</td>
<td>Art for Exceptional Children</td>
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<td>ART 139</td>
<td>Directed Research in Art Education</td>
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<td>3D Computer Modeling</td>
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<td>ART 144</td>
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<td>ART 145</td>
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<td>Creative Coding</td>
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<tr>
<td>ART 147</td>
<td>Video Art</td>
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<td>ART 148</td>
<td>Barrio Art for Ethnic Groups</td>
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<td>Graphics/Printmaking Studio</td>
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<td>ART 150</td>
<td>Advanced Ceramics</td>
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<td>ART 153</td>
<td>Hand-Built Ceramic Techniques</td>
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<td>ART 160</td>
<td>Special Topics in Art Studio</td>
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<td>ART 162</td>
<td>Alternative Photographic Processes</td>
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<td>ART 178A</td>
<td>Public Art Processes</td>
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<td>ART 178B</td>
<td>Public Art Studio</td>
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<td>ART 180</td>
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<td>ART 189</td>
<td>Sculpture Studio</td>
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<tr>
<td>ART 191</td>
<td>Film as an Art Form</td>
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<td>ART 192A</td>
<td>Senior Seminar in Studio Art</td>
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<tr>
<td>ART 192B</td>
<td>Senior Seminar in Art History</td>
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<td>ART 192C</td>
<td>Senior Seminar in Art Education</td>
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<td>ART 193</td>
<td>Curatorial Projects</td>
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<td>ART 193B</td>
<td>Introduction to Curatorial Studies</td>
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<tr>
<td>ART 195</td>
<td>Fieldwork</td>
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<td>ART 196</td>
<td>Experimental Offerings in Art</td>
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<td>ART 196W</td>
<td>Protest and Play: Northern California Art of the 1970s</td>
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<tr>
<td>ART 197</td>
<td>Intermediate Electronic Art</td>
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<tr>
<td>ART 198</td>
<td>Advanced Electronic Art</td>
</tr>
<tr>
<td>ART 199</td>
<td>Special Problems</td>
</tr>
</tbody>
</table>

**Total Units** 48

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Courses in the lower division cannot be repeated for credit towards the major.
3. All courses must be chosen with advisor approval. See the current course catalog for courses that may be taken more than once for credit.
General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td></td>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
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<tr>
<td>A1</td>
<td>Oral Communication</td>
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<tr>
<td>A2</td>
<td>Written Communication</td>
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</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
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<tr>
<td></td>
<td><strong>Area B: Physical Universe and Its Life Forms (13 Units)</strong></td>
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<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
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<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following:</td>
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<tr>
<td></td>
<td>B1, B2 or B5</td>
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<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
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<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division</td>
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<tr>
<td></td>
<td>course to complete Area &amp; upper division requirements.</td>
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<tr>
<td></td>
<td><strong>Area C: Arts and Humanities (6 Units)</strong></td>
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<td>C1</td>
<td>Arts</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
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<tr>
<td>C1/C2</td>
<td>Area C Course</td>
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<tr>
<td>C1/C2</td>
<td>- Area C Course - Take upper-division course to complete Area &amp;</td>
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<tr>
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<td>upper division requirements.</td>
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<tr>
<td></td>
<td><strong>Area D: The Individual and Society (9 Units)</strong></td>
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<tr>
<td>D1</td>
<td>Area D Course</td>
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<tr>
<td>D2</td>
<td>Area D Course - Take upper-division course to complete Area &amp;</td>
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<tr>
<td></td>
<td>upper division requirements.</td>
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<tr>
<td></td>
<td><strong>Area E: Understanding Personal Development (3 Units)</strong></td>
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<td>E1</td>
<td>Area E Course</td>
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<td></td>
<td><strong>Area F: Ethnic Studies (3 Units)</strong></td>
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<td>F1</td>
<td>Area F Course</td>
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<td></td>
<td><strong>Total Units</strong></td>
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</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Graduation Requirements (required by CSU) (9 Units)</strong></td>
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<tr>
<td></td>
<td>American Institutions: U.S. History</td>
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<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
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<td></td>
<td>Writing Intensive (WI)</td>
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<td></td>
<td><strong>Graduation Requirements (required by Sacramento State) (12 Units)</strong></td>
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<td></td>
<td>English Composition II</td>
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<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
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<tr>
<td></td>
<td>Foreign Language Proficiency Requirement</td>
<td>6</td>
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</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

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BA in Art (Art Education)

Units required for the Subject Matter Program: 48

Program Description

Courses in Art Education provide students with the knowledge and tools necessary to thrive as teachers in both K-12 and community settings. The Art Education program includes instruction in artistic perception; creative expression; historical and cultural foundations in art; aesthetic valuing; connections, relationships, and applications in art; visual art and education theories; and visual culture art education.

Art majors wishing to pursue a Single Subject Teaching Credential in Art in the College of Education must contact the Art Department's Credential Coordinator to have their transcripts evaluated for courses required for admission to the credential program and to have their single subject competency assessed.

Teaching credential candidates must also complete the Professional Education Program in the College of Education and meet the California art subject matter standards. Students interested in teaching art in public schools in California should get information from the Teaching Credentials Office in Eureka Hall 401 or the College of Education's Web site at www.csus.edu/coe/academics/credentials/ (http://www.csus.edu/coe/academics/credentials/)

Minimum Grade Requirement

Courses applied toward the Subject Matter program must be completed with a grade of "C" or higher.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART 1A</td>
<td>Art, Religions, and Power before 1400</td>
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<tr>
<td>ART 1B</td>
<td>Art, Empires, and Cross-Cultural Exchange, 1400-1800</td>
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<td>ART 1C</td>
<td>Global Modern and Contemporary Art</td>
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<tr>
<td>ART 3A</td>
<td>Traditional Asian Art</td>
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<td>Modern and Contemporary Asian Art</td>
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<td>ART 5</td>
<td>Art of the Americas</td>
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<td>ART 100</td>
<td>Origins of American Indian Art</td>
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<td>ART 110</td>
<td>US and Caribbean Art: Race and Representation</td>
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<td>ART 111</td>
<td>Latin American and Latino Art History</td>
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<td>Art of India and Southeast Asia</td>
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<td>ART Studio Foundation (21 Units)</td>
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<td>ART 20A</td>
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<td>ART 22</td>
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<td>Select one of the following:</td>
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<td>ART 70</td>
<td>Form, Space Vision</td>
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<td>ART 88</td>
<td>Beginning Sculpture</td>
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<td>Select one of the following:</td>
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<tr>
<td>ART 50</td>
<td>Beginning Ceramics</td>
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<td>ART 53</td>
<td>Beginning Hand-Built Ceramics</td>
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<td>ART 40D</td>
<td>Basic Printmaking: Relief</td>
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<td>ART 60</td>
<td>Two-Dimensional Composition</td>
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<tr>
<td>ART 70</td>
<td>Form, Space Vision</td>
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<td>ART 74</td>
<td>Beginning Jewelry</td>
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<td>ART 75</td>
<td>Beginning Metalmithing</td>
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<td>ART 86</td>
<td>Clay Sculpture</td>
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<td>ART 88</td>
<td>Beginning Sculpture</td>
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<td>PHOT 40</td>
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<td>Art Studio Depth (6 Units)</td>
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<td>Select two courses from Group 1, Group 2 or Group 3:</td>
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<td>Group 1</td>
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<tr>
<td>ART 120</td>
<td>Advanced Drawing</td>
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<td>ART 122A</td>
<td>Intermediate Painting (may be taken twice for</td>
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<td>ART 122B</td>
<td>Advanced Painting (may be taken four times for</td>
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<tr>
<td>ART 123</td>
<td>Figure Drawing</td>
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<td>ART 124A</td>
<td>Intermediate Watercolor</td>
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<td>Advanced Watercolor</td>
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<td>ART 125A</td>
<td>Life Painting</td>
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<td>Life Studio</td>
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<td>ART 126</td>
<td>Painting and Drawing in the Field</td>
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<tr>
<td>ART 127</td>
<td>Collage and Assemblage (may be taken twice for</td>
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<td></td>
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<td>ART 144</td>
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<td>Advanced Printmaking Studio</td>
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<td>ART 153</td>
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<tr>
<td>ART 175</td>
<td>Intermediate Metalmithing</td>
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<td>Advanced Jewelry</td>
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<td>ART 180</td>
<td>Figure Sculpture</td>
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</tr>
<tr>
<td>ART 182</td>
<td>Intermediate Sculpture (may be taken twice for</td>
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<tr>
<td></td>
<td>credit)</td>
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</tr>
<tr>
<td>ART 183</td>
<td>Advanced Sculpture (may be taken twice for credit)</td>
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<tr>
<td>ART 187</td>
<td>Installation and Performance Art (may be taken</td>
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<tr>
<td></td>
<td>twice for credit)</td>
<td></td>
</tr>
<tr>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 142/</td>
<td>3D Computer Modeling</td>
<td></td>
</tr>
<tr>
<td>CSC 126</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 143/</td>
<td>3D Computer Animation</td>
<td></td>
</tr>
<tr>
<td>CSC 127</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 144</td>
<td>Digital Printmaking</td>
<td></td>
</tr>
<tr>
<td>ART 147/</td>
<td>Video Art</td>
<td></td>
</tr>
<tr>
<td>COMS 157</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 197</td>
<td>Intermediate Electronic Art</td>
<td></td>
</tr>
<tr>
<td>ART 198</td>
<td>Advanced Electronic Art</td>
<td></td>
</tr>
<tr>
<td>Art Education (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 130</td>
<td>Theories in Art Education</td>
<td></td>
</tr>
<tr>
<td>ART 133</td>
<td>Art Education for Children</td>
<td></td>
</tr>
<tr>
<td>ART 135</td>
<td>Overview of Secondary Art Education</td>
<td></td>
</tr>
<tr>
<td>Total Units</td>
<td>48</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** ART 305 (Art in the Public School) is the required learning methods course for students enrolled in the Professional Education Program in the College of Education.

The program is currently under review by the Commission on Teacher Credentialing and students are strongly encouraged to consult an advisor.

### BA in Art History

#### Minimum Grade Requirement

All lower division art history requirements and demonstrated writing proficiency as prescribed by California State University, Sacramento must be completed prior to enrollment in upper division courses. A minimum grade of "C" is required in all courses applied to the Art History concentration. Art History students are required to meet the Sacramento State Foreign Language Requirement by completing the second semester (1B) of a college-level foreign language course with a grade of C- or better (or equivalent foreign language study, as described in the current University catalog). Students who plan to pursue further graduate study in art history are encouraged to learn a foreign language relevant to their art historical interests through the second semester intermediate level (2B).

#### Units required for Major: 48

#### Program Description

The Art History BA provides a full range of courses in Western and non-Western art, criticism, and visual culture from pre-history to the present and from many perspectives. Lecture/discussion classes, seminars, independent studies, fieldwork, and studio courses produce college-level visual literacy, global perspectives, art historical skills, and understanding of curatorial and art-making practices. Students focus on one of four areas of interest: Early Modern European Art, Asian Art, Art of the Americas, or Modern and Contemporary Art. The art history degree affords a broad education as well as practical preparation for a range of vocations and advanced professional studies. Students who wish to pursue advanced degrees in Art History after finishing the Bachelor of Arts will benefit from the close supervision of a mentor-professor who helps prepare them for graduate studies.
Fieldwork experiences can be arranged with the Crocker Art Museum, Sacramento Metropolitan Arts Commission, and other public and private art institutions and galleries in the Capital region. Opportunities to study art history abroad are available through the Office of International Programs and Global Engagement at Sacramento State and the California State University International Program. University credit can be obtained for a semester to a year of study at college and international centers in Britain, Europe, Latin America, Asia, Africa, and Australia.

California State University, Sacramento is an accredited institutional member of the National Association of Schools of Art and Design (NASAD).

Program Requirements

Required Lower Division Core Courses (18 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1C</td>
<td>Global Modern and Contemporary Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 20A</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one lower division course from Photography or Art Studio in a medium other than drawing.</td>
<td>3</td>
</tr>
<tr>
<td>ART 1A</td>
<td>Art, Religions, and Power before 1400</td>
<td>1</td>
</tr>
<tr>
<td>ART 1B</td>
<td>Art, Empires, and Cross-Cultural Exchange, 1400-1800</td>
<td>1</td>
</tr>
</tbody>
</table>

Select two of the following:

- ART 3A Traditional Asian Art
- ART 3B Modern and Contemporary Asian Art
- ART 4 European Visual Traditions
- ART 5 Art of the Americas

Required Upper Division Core Courses (21 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 100</td>
<td>Introduction to Historical Skills</td>
</tr>
</tbody>
</table>

Select one from each of the following four groups, plus two additional 18 courses from one group to form a specialization.

Group 1

- ART 103 Art of the Ancient Mediterranean
- ART 105 Medieval Art
- ART 106 Renaissance Art
- ART 107 Baroque and Rococo Art

Group 2

- ART 113B Asian Art and Mythology
- ART 117A Art of India and Southeast Asia
- ART 117B Art of China and Japan
- ART 117C Art of Korea

Group 3

- ART 100 Origins of American Indian Art
- ART 110 US and Caribbean Art: Race and Representation
- ART 111 Latin American and Latino Art History
- ART 118B/ HIST 184 California Architecture and Urban History
- ART 118C Public Art in the Americas

Group 4

- ART 108 19th Century Art
- ART 109 Modern Art
- ART 112 Contemporary Art

Group 5

- ART 114 Topics in Early Modern Art
- ART 115 Topics in Asian Art
- ART 116 Topics in Modern and Contemporary Art

Senior Seminar (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 192B</td>
<td>Senior Seminar in Art History</td>
</tr>
</tbody>
</table>

Total Units 48

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. This course should be taken in the second semester of the sophomore year or the first semester of the junior year for transfer students. Art History students are strongly advised to take 6 units of lower division Art History coursework and 6 units of lower division History coursework before taking HIST 100.
3. With the approval of an Art History faculty advisor, students may use ART 118C as a Group 4 course instead of Group 3.
4. Students may take either PHOT 101 or PHOT 102, but not both.
5. Students may take either PHOT 101 or PHOT 102, but not both. Independent study and supervisory courses in the major are limited to one (no more than 3 units), must be approved by an Art History faculty advisor, and may be applied only to the elective category.
6. With the approval of an Art History Seminar faculty advisor, students may satisfy the seminar requirement with a seminar in another liberal arts discipline.
7. Culminating course for students with senior status after completion of all lower division requirements. Prerequisites: completion of two semesters of a foreign language (1B or equivalent), the University’s Graduation Writing Assessment requirement, HIST 100, and the art history seminar (item D).

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

Area A: Basic Subjects (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area A &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

Area C: Arts and Humanities (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Arts</td>
<td>2</td>
</tr>
</tbody>
</table>

Area A: Basic Subjects (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

Area B: Physical Universe and Its Life Forms (13 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area A &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

Area C: Arts and Humanities (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Arts</td>
<td>2</td>
</tr>
</tbody>
</table>
C2 - Humanities 3
C1/C2 - Area Course 2 0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.

Area D: The Individual and Society (12 Units)
Area D Course 3
Area D Course 3
Area D Course 3
Area D Course - Take upper-division course to complete Area & upper division requirements.

Area E: Understanding Personal Development (3 Units)
Area E Course 3

Total Units 43

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Required in Major; also satisfies GE.

Program Description

The BA in Art Studies (Single Subject Pre-Credential Preparation) prepares students to be resourceful, creative, and socially engaged artist-educators. Students develop expertise in a breadth of studio practices and depth of teaching, preparing students with the knowledge and skills necessary to thrive as teachers in school, museum, and community organizations. The curriculum prepares students through a variety of instruction, including studies in artistic perception; historical and cultural foundations in art; connections, relationships, and applications in art; critical art education theories and methodologies; and visual culture art education.

The BA in Art Studies (Single Subject Pre-Credential Preparation) is a California state-approve subject matter program. Students who successfully complete the program satisfy the requirement of the Commission on Teacher Credentialing for demonstrated competence in Art. Graduates of the program are exempt from the CSET exams in Art. Graduates from the program obtain the prerequisite coursework needed to enter the Single-Subject Teaching Credential Program in the College of Education. Students interested in teaching art in public schools in California should get information from the Teaching Credentials Office in Eureka Hall 401 or the College of Education's website at www.csus.edu/college/education/teaching-credentials (http://www.csus.edu/college/education/teaching-credentials/).

Minimum Grade Requirement

Courses applied toward the Subject Matter program must be completed with a grade of "C" or higher.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1A</td>
<td>Art, Religions, and Power before 1400</td>
<td>9</td>
</tr>
<tr>
<td>ART 1B</td>
<td>Art, Empires, and Cross-Cultural Exchange, 1400-1800</td>
<td>6</td>
</tr>
<tr>
<td>ART 1C</td>
<td>Global Modern and Contemporary Art</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html.

BA in Art Studies (Single Subject Pre-Credential Preparation)

Units required: 72
PHOT 40  Darkroom Photography

**Upper Division Art Studio Depth (6 Units)**

Select two courses from any single group (Group 1, Group 2 or Group 3): 6

<table>
<thead>
<tr>
<th>Group 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 120</td>
<td>Advanced Drawing</td>
</tr>
<tr>
<td>ART 122A</td>
<td>Intermediate Painting (may be taken twice for credit)</td>
</tr>
<tr>
<td>ART 122B</td>
<td>Advanced Painting (may be taken four times for credit)</td>
</tr>
<tr>
<td>ART 123</td>
<td>Figure Drawing</td>
</tr>
<tr>
<td>ART 124A</td>
<td>Intermediate Watercolor</td>
</tr>
<tr>
<td>ART 124B</td>
<td>Advanced Watercolor</td>
</tr>
<tr>
<td>ART 125A</td>
<td>Life Painting</td>
</tr>
<tr>
<td>ART 125B</td>
<td>Life Studio</td>
</tr>
<tr>
<td>ART 126</td>
<td>Painting and Drawing in the Field</td>
</tr>
<tr>
<td>ART 140</td>
<td>Intermediate Printmaking</td>
</tr>
<tr>
<td>ART 144</td>
<td>Digital Printmaking</td>
</tr>
<tr>
<td>ART 145</td>
<td>Advanced Printmaking Studio</td>
</tr>
<tr>
<td>ART 178A</td>
<td>Public Art Processes</td>
</tr>
<tr>
<td>ART 178B</td>
<td>Public Art Studio</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 127</td>
<td>Collage and Assemblage (may be taken twice for credit)</td>
</tr>
<tr>
<td>ART 150</td>
<td>Advanced Ceramics</td>
</tr>
<tr>
<td>ART 153</td>
<td>Hand-Built Ceramic Techniques</td>
</tr>
<tr>
<td>ART 178A</td>
<td>Public Art Processes</td>
</tr>
<tr>
<td>ART 178B</td>
<td>Public Art Studio</td>
</tr>
<tr>
<td>ART 180</td>
<td>Figure Sculpture</td>
</tr>
<tr>
<td>ART 182</td>
<td>Intermediate Sculpture (may be taken twice for credit)</td>
</tr>
<tr>
<td>ART 183</td>
<td>Advanced Sculpture (may be taken twice for credit)</td>
</tr>
<tr>
<td>ART 187</td>
<td>Installation and Performance Art (may be taken twice for credit)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group 3</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 142/ CSC 126</td>
<td>3D Computer Modeling</td>
</tr>
<tr>
<td>ART 143/ CSC 127</td>
<td>3D Computer Animation</td>
</tr>
<tr>
<td>ART 144</td>
<td>Digital Printmaking</td>
</tr>
<tr>
<td>ART 146</td>
<td>Creative Coding</td>
</tr>
<tr>
<td>ART 147/ COMS 157</td>
<td>Video Art</td>
</tr>
<tr>
<td>ART 178A</td>
<td>Public Art Processes</td>
</tr>
<tr>
<td>ART 178B</td>
<td>Public Art Studio</td>
</tr>
<tr>
<td>ART 197</td>
<td>Intermediate Electronic Art</td>
</tr>
<tr>
<td>ART 198</td>
<td>Advanced Electronic Art</td>
</tr>
</tbody>
</table>

**Upper Division Art History Depth (6 Units)**

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 100</td>
<td>Origins of American Indian Art</td>
<td></td>
</tr>
<tr>
<td>ART 102</td>
<td>Themes in World Art and Visual Culture</td>
<td></td>
</tr>
<tr>
<td>ART 103</td>
<td>Art of the Ancient Mediterranean</td>
<td></td>
</tr>
<tr>
<td>ART 105</td>
<td>Medieval Art</td>
<td></td>
</tr>
<tr>
<td>ART 106</td>
<td>Renaissance Art</td>
<td></td>
</tr>
<tr>
<td>ART 107</td>
<td>Baroque and Rococo Art</td>
<td></td>
</tr>
<tr>
<td>ART 108</td>
<td>19th Century Art</td>
<td></td>
</tr>
<tr>
<td>ART 109</td>
<td>Modern Art</td>
<td></td>
</tr>
<tr>
<td>ART 110</td>
<td>US and Caribbean Art: Race and Representation</td>
<td></td>
</tr>
<tr>
<td>ART 111</td>
<td>Latin American and Latino Art History</td>
<td></td>
</tr>
<tr>
<td>ART 112</td>
<td>Contemporary Art</td>
<td></td>
</tr>
<tr>
<td>ART 113B</td>
<td>Asian Art and Mythology</td>
<td></td>
</tr>
<tr>
<td>ART 114</td>
<td>Topics in Early Modern Art</td>
<td></td>
</tr>
<tr>
<td>ART 115</td>
<td>Topics in Asian Art</td>
<td></td>
</tr>
<tr>
<td>ART 116</td>
<td>Topics in Modern and Contemporary Art</td>
<td></td>
</tr>
<tr>
<td>ART 117A</td>
<td>Art of India and Southeast Asia</td>
<td></td>
</tr>
<tr>
<td>ART 117B</td>
<td>Art of China and Japan</td>
<td></td>
</tr>
<tr>
<td>ART 117C</td>
<td>Art of Korea</td>
<td></td>
</tr>
<tr>
<td>ART 118C</td>
<td>Public Art in the Americas</td>
<td></td>
</tr>
<tr>
<td>PHOT 102</td>
<td>Photography, a Social History</td>
<td></td>
</tr>
</tbody>
</table>

**Required Upper Division Art Education Courses (18 Units)**

Complete all six courses: 18

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 130</td>
<td>Theories in Art Education</td>
<td></td>
</tr>
<tr>
<td>ART 133</td>
<td>Art Education for Children</td>
<td></td>
</tr>
<tr>
<td>ART 135</td>
<td>Overview of Secondary Art Education</td>
<td></td>
</tr>
<tr>
<td>ART 137</td>
<td>Art for Exceptional Children</td>
<td></td>
</tr>
<tr>
<td>ART 148</td>
<td>Barrio Art for Ethnic Groups</td>
<td></td>
</tr>
<tr>
<td>ART 192C</td>
<td>Senior Seminar in Art Education</td>
<td></td>
</tr>
</tbody>
</table>

**Pre-requisite Credential Courses (8 Units)**

Complete all four courses: 8

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 100A</td>
<td>Educating Students with Disabilities in Inclusive Settings</td>
<td></td>
</tr>
<tr>
<td>EDUC 100B</td>
<td>Educating Students with Disabilities in Inclusive Settings Lab</td>
<td></td>
</tr>
<tr>
<td>EDUC 170</td>
<td>Introduction to Bilingual Education: Policies, Principles, Programs, and Practices</td>
<td></td>
</tr>
<tr>
<td>PUBH 136</td>
<td>School Health Education</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units** 71

Note: ART 305 (Art in the Public School) is the required learning methods course for students enrolled in the Professional Education Program in the College of Education.

The program is currently under review by the Commission on Teacher Credentialing and students are strongly encouraged to consult an advisor.

**General Education Requirements**

**Code | Title | Units**
---|---|---
**Area A: Basic Subjects (9 Units)**
A1 - Oral Communication 3
A2 - Written Communication 3
A3 - Critical Thinking 3
**Area B: Physical Universe and Its Life Forms (13 Units)**
B1 - Physical Science 3
B2 - Life Forms 3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) 1
B4 - Math Concepts 3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.

**Area C: Arts and Humanities (9 Units)**
- C1 - Arts \(^2\) 0
- C2 - Humanities 3
- C1/C2 - Area C Course 3
- C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.

**Area D: The Individual and Society (9 Units)**
- Area D Course 3
- Area D Course - Take upper-division course to complete Area & upper division requirements.

**Area E: Understanding Personal Development (3 Units)**
- Area E Course 3

**Area F: Ethnic Studies (3 Units)**
- Area F Course 3

**Total Units** 46

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies GE.

### Graduation Requirements \(^1\)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (6-9 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI) (^3)</td>
<td>0 - 3</td>
</tr>
<tr>
<td></td>
<td>Graduation Requirements (required by Sacramento State) (9-12 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE) (^3)</td>
<td>0 - 3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Proficiency Requirement (^2)</td>
<td>6</td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C" or better required. The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: [https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-proficiency.html](https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-proficiency.html)

3. Requirement may be completed in major

### BFA in Studio Art

Units required for Major: 75  
Total units required for BFA: 120

### Program Description

The Bachelor of Fine Arts in Art Studio is a four-year program that prepares students for successful careers as artists. It is the professional degree for an artist and provides the foundation for the master’s program in studio art. While the B.F.A. program provides students with a broad overview of the fine art areas of ceramics, drawing, painting, printmaking, sculpture, interdisciplinary and new media art, it is designed to develop in-depth skills in one of these areas of the visual arts. The studio curriculum in the program emphasizes technical mastery, individuality, creative experimentation and prepares students for a variety of post-graduate pursuits. The curriculum also provides a thorough grounding in visual art thinking, contemporary art history and critical theory. The degree is designed for undergraduate students who want to combine intensive and innovative studio art practice with an outstanding education in the liberal arts.

### Minimum Grade Requirements

A minimum grade of "C" is required in all lower division courses and upper division non-studio courses applied to the Studio Art program.

A minimum grade of "B" is required in all upper division studio courses.

### Additional Requirements

Participation in an exhibition of BFA candidates is required for completion of the degree.

**Note:** Whenever possible, classes should be selected in consultation with a faculty advisor. It is recommended that students complete all of the lower division requirements before enrolling in upper division courses. Prerequisites for some courses may be waived on the advisement of an Art instructor and a portfolio review. ART 192A Senior Seminar in Studio Art (3 units) is a required course, taken in the final semester of the Senior year and concurrently with ART 194, BFA Senior Project.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lower Division Core Requirements (33 Units)</td>
<td></td>
</tr>
<tr>
<td>ART 1C</td>
<td>Global Modern and Contemporary Art (^1)</td>
<td>3</td>
</tr>
<tr>
<td>ART 20A</td>
<td>Beginning Drawing (^1)</td>
<td>3</td>
</tr>
<tr>
<td>ART 20B</td>
<td>Intermediate Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 60</td>
<td>Two-Dimensional Composition</td>
<td>3</td>
</tr>
<tr>
<td>ART 70</td>
<td>Form, Space Vision (^1)</td>
<td>3</td>
</tr>
<tr>
<td>ART 97</td>
<td>Beginning Electronic Art</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 1A</td>
<td>Art, Religions, and Power before 1400 (^1)</td>
<td>3</td>
</tr>
</tbody>
</table>

\(^1\) If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C" or better required. The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: [https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-proficiency.html](https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-proficiency.html)

\(^2\) Required in Major; also satisfies GE.
<table>
<thead>
<tr>
<th>ART 1B</th>
<th>Art, Empires, and Cross-Cultural Exchange, 1400-1800</th>
</tr>
</thead>
</table>

Choose one of the following: 3

| ART 2 | History of Islamic Art |
| ART 3A | Traditional Asian Art |
| ART 3B | Modern and Contemporary Asian Art |
| ART 4 | European Visual Traditions |
| ART 5 | Art of the Americas |

2-D Studio Group

Choose one of the following: 3

| ART 22 | Beginning Painting |
| ART 24 | Beginning Watercolor |
| ART 40 | Beginning Printmaking |
| PHOT 40 | Darkroom Photography |

3-D Studio Group

Choose one of the following: 3

| ART 50 | Beginning Ceramics |
| ART 53 | Beginning Hand-Built Ceramics |
| ART 88 | Beginning Sculpture |

Lower Division Studio Elective Group 2

Choose one of the following: 3

| ART 22 | Beginning Painting |
| ART 24 | Beginning Watercolor |
| ART 40 | Beginning Printmaking |
| ART 50 | Beginning Ceramics |
| ART 53 | Beginning Hand-Built Ceramics |
| ART 88 | Beginning Sculpture |
| PHOT 40 | Darkroom Photography |

Upper Division Core Requirements (42 Units)

Select all of the following: 12

| ART 121 | BFA Junior Studio |
| ART 160 | Special Topics in Art Studio |
| ART 192A | Senior Seminar in Studio Art |
| ART 194 | BFA Senior Project |

Studio Course Group 3

Choose five from the following: 15

Drawing Group

| ART 120 | Advanced Drawing |
| ART 123 | Figure Drawing |
| ART 125B | Life Studio |
| ART 127 | Collage and Assemblage |
| ART 129 | Painting/Drawing Studio |
| ART 199 | Special Problems |

Painting Group

| ART 122A | Intermediate Painting |
| ART 122B | Advanced Painting |
| ART 124A | Intermediate Watercolor |
| ART 124B | Advanced Watercolor |
| ART 125A | Life Painting |
| ART 125B | Life Studio |
| ART 126 | Painting and Drawing in the Field |
| ART 127 | Collage and Assemblage |

| ART 129 | Painting/Drawing Studio |
| ART 199 | Special Problems |

Printmaking Group

| ART 127 | Collage and Assemblage |
| ART 140 | Intermediate Printmaking |
| ART 144 | Digital Printmaking |
| ART 145 | Advanced Printmaking Studio |
| ART 149 | Graphics/Printmaking Studio |
| ART 199 | Special Problems |

Sculpture Group

| ART 127 | Collage and Assemblage |
| ART 142 | 3D Computer Modeling |
| ART 178A | Public Art Processes |
| ART 178B | Public Art Studio |
| ART 180 | Figure Sculpture |
| ART 182 | Intermediate Sculpture |
| ART 183 | Advanced Sculpture |
| ART 187 | Installation and Performance Art |
| ART 189 | Sculpture Studio |
| ART 199 | Special Problems |

Ceramics Group

| ART 150 | Advanced Ceramics |
| ART 153 | Hand-Built Ceramic Techniques |
| ART 159 | Ceramics Studio |
| ART 180 | Figure Sculpture |
| ART 199 | Special Problems |

New Media Group

| ART 142 | 3D Computer Modeling |
| ART 143 | 3D Computer Animation |
| ART 144 | Digital Printmaking |
| ART 146 | Creative Coding |
| ART 147 | Video Art |
| ART 162 | Alternative Photographic Processes |
| ART 187 | Installation and Performance Art |
| ART 197 | Intermediate Electronic Art |
| ART 198 | Advanced Electronic Art |
| ART 199 | Special Problems |

Interdisciplinary/Integrated Media (or Inter-media) Group

With prior approval from two advisors, students may develop their own group

Studio Elective Requirement

Select three courses from any upper division or lower division studio group or any of the following: 9

| ART 128 | Art and the Artist in the Marketplace |
| ART 130 | Theories in Art Education |
| ART 133 | Art Education for Children |
| ART 134 | Interdisciplinary Art |
| ART 135 | Overview of Secondary Art Education |
| ART 137 | Art for Exceptional Children |
| ART 148 | Barrio Art for Ethnic Groups |
| ART 193 | Art Gallery Management |
| ART 193B | Introduction to Curatorial Studies |
General Education Requirements

<table>
<thead>
<tr>
<th>Area A: Basic Subjects (9 Units)</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 - Oral Communication</td>
<td>A1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>A2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>A3</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Area B: Physical Universe and Its Life Forms (13 Units)</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 - Physical Science</td>
<td>B1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>B2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>B3</td>
<td>1</td>
<td></td>
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<tr>
<td>B4 - Math Concepts</td>
<td>B4</td>
<td>3</td>
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</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>B5</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Area C: Arts and Humanities (3-6 Units)</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>C1 - Arts</td>
<td>C1</td>
<td>0</td>
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<tr>
<td>C2 - Humanities</td>
<td>C2</td>
<td>3</td>
<td></td>
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<tr>
<td>C1/C2 - Area Course C</td>
<td>C1</td>
<td>0</td>
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<tr>
<td>C1/C2 - Area Course C - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>C1</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Area D: The Individual and Society (12 Units)</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Area D Course</td>
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<tr>
<td>Area D Course</td>
<td>D</td>
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</tr>
<tr>
<td>Area D Course</td>
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<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<table>
<thead>
<tr>
<th>Area E: Understanding Personal Development (3 Units)</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Area E Course</td>
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<table>
<thead>
<tr>
<th>Graduation Requirements</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (6-9 Units)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
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<td>0</td>
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<tr>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td></td>
<td></td>
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<tr>
<td>English Composition II</td>
<td></td>
<td>3</td>
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<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td></td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Selected course may not satisfy multiple major requirements. Courses in lower division cannot be repeated for credit towards the major.
3. All courses must be chosen with advisor approval. Course repeats will be allowed with advisor approval when in compliance with the University Repeat Policy. See course catalog for courses that may be taken more than once for credit.
4. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
Certificate in Curatorial Studies

The Certificate in Curatorial Studies helps prepare students to launch careers in art museums, galleries, and non-profit art organizations. These careers include art conservator, exhibition designer, gallerist, museum educator, collections manager, archivist, art handler, curatorial assistant, and development specialist. Students learn the fundamentals of art-handling, collection management, exhibition design, research and writing for art exhibition texts, and acquire selected career competencies needed for museum and gallery careers. As part of the Certificate, students work with university and community professionals to advance their curatorial skills. Both the Capstone Course and Internship allow students to collaborate with these professionals for supervised practice in art collection-management and the creation of art exhibitions.

Prerequisites:
1. Concurrent B.A. or B.F.A. degree in Studio Art, Art Education, Art History, or other major by special permission
2. Completion of ART 1C with a grade of C or higher

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 193</td>
<td>Art Gallery Management</td>
<td>3</td>
</tr>
<tr>
<td>ART 193B</td>
<td>Introduction to Curatorial Studies</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 176</td>
<td>Museums, Culture, and Society</td>
<td>3</td>
</tr>
<tr>
<td>HIST 193</td>
<td>Public History</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 163</td>
<td>Grant Writing for Social, Community and Human Service Organizations</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 164</td>
<td>Leadership and Fundraising for Non-profit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>ART 97</td>
<td>Beginning Electronic Art</td>
<td>3</td>
</tr>
<tr>
<td>ALS 195</td>
<td>Internship in Arts and Letters</td>
<td>3</td>
</tr>
<tr>
<td>ART 195</td>
<td>Fieldwork</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 15

MA in Art

Total units required for the MA: 30

Program Description

The Master of Arts program is designed to produce graduates with professional competence in studio disciplines. While acquiring those abilities, the student is also expected to develop skills used in the criticism and analysis of the visual arts. The Master of Arts degree at Sacramento State may serve as preparation for admission into a Master of Fine Arts (MFA) program at another institution.

The studio curriculum encourages integration of professional practice with historical and theoretical studies. The progression of classes facilitates the transition from student to independent artist through studies in ceramics, drawing, jewelry, metalsmithing, new media, painting, photography, printmaking, and sculpture. Special emphasis is placed on the development of individuality, depth, and professional competence in both technique and concepts.

Admission Requirements

Admission as a classified graduate student in art requires:
- a BA in Art or its equivalent, including 12 units in art history;
- a minimum 2.5 GPA in the last 60 units attempted;
- approval by Studio Art faculty review of other submitted materials (see Admission Procedures below); and
- English language proficiency: International students must pass the TOEFL examination. Advancement to candidacy requires passing English proficiency requirements. See below.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified status. Any deficiencies will be noted on a written response to the student’s admission application.

Admission Procedures

Applicants must complete a university application and a separate departmental application by the posted application deadline dates for the term applying.

- an online application for admission, including the online supplemental application; and
- official transcripts from all colleges and universities attended, other than Sacramento State. In addition, all materials listed below must be submitted by the posted deadline; and
- twenty slides of the applicant’s recent artwork in a carousel tray (a description of each slide, listing size, medium, and date of composition, must be included).

For more admissions information and application deadlines, please visit the Office of Graduate Studies website.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses in the graduate program with a minimum cumulative 3.0 GPA;
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver; and
- secured approval from the studio art faculty, based on a formal presentation of the student’s work.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with his/her Art Department advisor. The
completed form is then returned to the Office of Graduate Studies for approval.

**Final Review**

During the semester when the student expects to complete 30 units, the student should consult with the Graduate Coordinator and the student’s advisor in order to determine the details (such as the number of pieces and manner of presentation) of the final review, which is a culminating exhibition of student work. (Final reviews may be attempted only twice.)

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 206</td>
<td>Art Theory and Criticism 3</td>
<td>3</td>
</tr>
<tr>
<td>ART 212</td>
<td>Contemporary Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 222</td>
<td>Studio Critique Seminar 1</td>
<td>3</td>
</tr>
</tbody>
</table>

**Studio Electives (15 Units)**

Select 15 units from the following, at least 6 units must be 200-level:

- ART 120 Advanced Drawing
- ART 122A Intermediate Painting (may be taken twice for credit)
- ART 122B Advanced Painting (may be taken four times for credit)
- ART 123 Figure Drawing
- ART 124A Intermediate Watercolor
- ART 124B Advanced Watercolor
- ART 125A Life Painting
- ART 125B Life Studio
- ART 126 Painting and Drawing in the Field
- ART 127 Collage and Assemblage (may be taken twice for credit)
- ART 141 Advanced Silkscreen
- ART 142/CSC 126 3D Computer Modeling
- ART 143/CSC 127 3D Computer Animation
- ART 144 Digital Printmaking
- ART 145 Advanced Printmaking Studio
- ART 147/COMS 157 Video Art
- ART 150 Advanced Ceramics
- ART 153 Hand-Built Ceramic Techniques
- ART/PHOT 161 Photography in the Field
- ART/PHOT 162 Alternative Photographic Processes
- ART 180 Figure Sculpture
- ART 183 Advanced Sculpture (may be taken twice for credit)
- ART 187 Installation and Performance Art (may be taken twice for credit)
- ART 197 Intermediate Electronic Art
- ART 198 Advanced Electronic Art
- ART 220 Advanced Problems in Painting and Drawing
- ART 229 Painting/Drawing Studio 3

**Culminating Requirement (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 500</td>
<td>Culminating Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 30

1. ART 222 is a 3 unit course which must be taken each semester until final reviews are passed. Only 6 units of credit count toward graduation.
2. ART 299 does not count towards the 6-unit requirement.
3. Only 6 units of each studio course
4. Open only to graduate art students competent to carry on individual work; admission requires approval of the faculty member who will direct the work and of the Department chair via signed petition form

**MFA in Studio Art**

Total units required for the MFA: 60

**Program Description**

The Master of Fine Arts degree is a two-year 60-unit, multi-disciplinary and interdisciplinary program in the visual arts with studies in ceramics, drawing, painting, new media art, printmaking and sculpture. This professional terminal degree offers opportunities for solo and group exhibition, curatorial collaboration, exhibition catalogue production and written thesis. The curriculum encourages an integration of art theory, art history and art studio practice. Students will be expected to demonstrate an advanced level of professional studio competence developed through a significant body of work that is contextualized in contemporary culture. Special emphasis is placed on the development of individuality, depth, and professional competence in both art technique and concepts.

The program prepares students to enter the Fine Arts profession by providing experiences with intensive and immersive study, exhibition of their work and community and professional engagement. The program also offers assistantship opportunities in teaching, art technician work and gallery operations. For a more complete list of possible professions attached to the MFA see Career Possibilities in Art (p. 119).

**Admission Requirements**

Admission as a classified graduate student in Studio Art requires:

- a BFA or BA in Art or its *equivalent, including 12 units in Art History;
- a minimum 2.5 overall GPA
- a minimum 3.0 GPA in Art courses
- approval by Studio Art faculty review of other submitted materials (see Admission Procedures below); and
• English language proficiency: International students must pass TOEFL - minimum of 80 IBT, IELTS - minimum of 7.0 Band Score, PTE Academic Score: 65

*Equivalent- BA in Studio Art

1. In the liberal arts studio art major, normally at least 20% of the total credits are in studio courses, and at least 5% are in art/design history. Total required work in the visual arts normally equals 30-45% of the curriculum.

2. The curriculum should aim primarily toward breadth of experience and understanding rather than professional specialization. The primary objective of such training is not necessarily preparation for a career in art or design.

Upon graduation from BA or BFA, students must demonstrate:

• A developed visual sensitivity.
• The technical skills, perceptual development, and understanding of principles of visual organization sufficient to achieve basic visual communication and expression in one or more media.
• The ability to make workable connections between concept and media.
• Some familiarity with the works and intentions of major artists/designers and movements of the past and the present, both in the Western and non-Western worlds.
• An understanding of the nature of contemporary thinking on art and design.

**Admission Procedures**

Applicants must complete a University application and a separate Art Departmental application by the posted application deadline dates for the term applying.

• Graduate Studies (university) application submitted online via Cal State Apply (https://www2.calstate.edu/apply/) by Graduate Studies deadline.
• Art Department application submitted via SlideRoom (refer to Art Department website) that includes the following:
  • Art Department application form
  • Essay of intent addressing listed content on site
  • 3 letters of recommendation from previous faculty or art professionals
  • Official transcripts of all colleges attended
  • Twenty images or appropriate format of work (time-based images or documentation, video, audio etc.)

For additional admissions information please visit the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/).

**Minimum GPA Requirement**

Minimum Cumulative GPA: 3.0

**Advancement to Candidacy**

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

• removed any deficiencies;
• completed at least 30 units of 200-level courses in the graduate program with a minimum 3.0 GPA;
• taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first three semesters of coursework at Sacramento State or secured approval for a WPG waiver; and
• secured approval from the studio art faculty, based on a formal presentation of the student’s work.

Advancement to Candidacy forms are available on the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/). The student fills out the form after planning a degree program in consultation with Art Department Graduate Coordinator. The completed form is then returned to the Office of Graduate Studies for approval. **Note:** Advancement to Candidacy may be attempted only twice.

**Final Review**

During the semester when the student expects to complete 60 units, the student should consult with the Graduate Coordinator and the student’s advisor in order to determine the details (such as the number of pieces and manner of presentation) of the final review, which is a culminating exhibition of student work. **Note:** Final reviews may be attempted only twice.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Basic Core Courses (18 Units)</strong></td>
<td></td>
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</tr>
<tr>
<td>ART 206</td>
<td>Art Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>ART 212</td>
<td>Contemporary Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 222A</td>
<td>Graduate Seminar 1</td>
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<tr>
<td>ART 222B</td>
<td>Graduate Seminar 2</td>
<td>3</td>
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<tr>
<td>ART 222C</td>
<td>Graduate Seminar 3</td>
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<td>ART 222D</td>
<td>Graduate Seminar 4</td>
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<tr>
<td><strong>Studio Core Courses (18 Units)</strong></td>
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<tr>
<td>ART 201A</td>
<td>Mentored Individual Studio Practice 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 201B</td>
<td>Mentored Individual Studio Practice 2</td>
<td>3</td>
</tr>
<tr>
<td>ART 201C</td>
<td>Mentored Individual Studio Practice 3</td>
<td>3</td>
</tr>
<tr>
<td>ART 207</td>
<td>Graduate Studio and Critique</td>
<td>3</td>
</tr>
<tr>
<td>ART 208</td>
<td>Intensive Graduate Studio and Critique</td>
<td>6</td>
</tr>
<tr>
<td><strong>Elective Courses (9 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 9 units from the following:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>ART 231</td>
<td>Teaching Practicum</td>
<td>2, 3</td>
</tr>
<tr>
<td>ART 120</td>
<td>Advanced Drawing</td>
<td></td>
</tr>
<tr>
<td>ART 123</td>
<td>Figure Drawing</td>
<td></td>
</tr>
<tr>
<td>ART 124B</td>
<td>Advanced Watercolor</td>
<td></td>
</tr>
<tr>
<td>ART 125A</td>
<td>Life Painting</td>
<td></td>
</tr>
<tr>
<td>ART 126</td>
<td>Painting and Drawing in the Field</td>
<td></td>
</tr>
<tr>
<td>ART 127</td>
<td>Collage and Assemblage</td>
<td></td>
</tr>
<tr>
<td>ART 140</td>
<td>Intermediate Printmaking</td>
<td></td>
</tr>
<tr>
<td>ART 141</td>
<td>Advanced Silkscreen</td>
<td></td>
</tr>
<tr>
<td>ART 142</td>
<td>3D Computer Modeling</td>
<td></td>
</tr>
<tr>
<td>ART 144</td>
<td>Digital Printmaking</td>
<td></td>
</tr>
</tbody>
</table>

Note: Final reviews may be attempted only twice.
ART 145  Advanced Printmaking Studio
ART 147  Video Art
ART 150  Advanced Ceramics
ART 153  Hand-Built Ceramic Techniques
ART 180  Figure Sculpture
ART 183  Advanced Sculpture
ART 187  Installation and Performance Art
ART 299  Special Problems
EDTE 280B  Instructional Design
PHOT/ART 161  Photography in the Field
PHOT/ART 162  Alternative Photographic Processes

Elective Graduate Studio Courses (9 Units)
Select 9 units from the following:
  ART 207  Graduate Studio and Critique
  ART 208  Intensive Graduate Studio and Critique

Culminating Requirement (6 Units)
ART 500A  Culminating Experience Thesis
ART 500B  Culminating Experience Exhibition

Total Units 60

1 Six units of the nine units may be selected from any university undergraduate (upper-division only) course or graduate course with faculty approval.
2 EDTE 280B and ART 231 are part of the teaching option and will satisfy 6 of the 9 elective units.
3 Open only to graduate art students competent to carry on individual work; admission requires approval of the faculty member who will direct the work and of the Department Chair via signed petition form.
4 ART 500A is a written thesis requirement and is taken with studio advisor.
5 ART 500B is the final exhibition requirement taken with Graduate Coordinator.

Minor in Art Education
Units required for Minor: 21

Program Description
The Department of Art at Sacramento State introduces students to the expressive world of the visual arts. A wide variety of approaches based on both Western and Non-Western cultures are integrated into courses that are oriented toward creativity, imagination, and critical thinking. Students are able to explore art through courses in art education, art history, ceramics, metalsmithing/jewelry, new media art, painting, print making, and interdisciplinary sculpture.

Minimum Grade Requirement
A grade of "C" or better is required for all courses applied to the Minor in Art Education.

Program Requirements
Units required for Minor: 21, including 9 lower division units in Art Studio, 3 lower division units in Art History, and 9 units of Art Education selected with the approval of the Art Education Credential Advisor.

Minor in Art History
Units required for Minor: 21, all of which must be taken in Art History

Program Description
The Department of Art at Sacramento State introduces students to the expressive world of the visual arts. A wide variety of approaches based on both Western and Non-Western cultures are integrated into courses that are oriented toward creativity, imagination, and critical thinking. Students are able to explore art through courses in art education, art history, ceramics, metalsmithing/jewelry, new media art, painting, print making, and interdisciplinary sculpture.

Minimum Grade Requirement
A grade of "C" or better is required for all courses applied to the Minor in Art History.

Note: Students are strongly encouraged to select the four lower division courses and three upper division courses in consultation with an Art History faculty advisor.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1A</td>
<td>Art, Religions, and Power before 1400</td>
<td>12</td>
</tr>
<tr>
<td>ART 1B</td>
<td>Art, Empires, and Cross-Cultural Exchange, 1400-1800</td>
<td></td>
</tr>
<tr>
<td>ART 1C</td>
<td>Global Modern and Contemporary Art</td>
<td></td>
</tr>
<tr>
<td>ART 3A</td>
<td>Traditional Asian Art</td>
<td></td>
</tr>
<tr>
<td>or ART 3B</td>
<td>Modern and Contemporary Asian Art</td>
<td></td>
</tr>
<tr>
<td>ART 5</td>
<td>Art of the Americas</td>
<td></td>
</tr>
</tbody>
</table>

Select nine units of upper division courses in Art History

Total Units 21

Minor in Art Studio
Units required for Minor: 21

Program Description
The Department of Art at Sacramento State introduces students to the expressive world of the visual arts. A wide variety of approaches based on both Western and Non-Western cultures are integrated into courses that are oriented toward creativity, imagination, and critical thinking. Students are able to explore art through courses in art education, art history, ceramics, metalsmithing/jewelry, new media art, painting, print making, and interdisciplinary sculpture.

Minimum Grade Requirement
A grade of "C" or better is required for all courses applied to the Minor in Art Studio.
### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select two of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ART 1A</td>
<td>Art, Religions, and Power before 1400</td>
<td></td>
</tr>
<tr>
<td>ART 1B</td>
<td>Art, Empires, and Cross-Cultural Exchange, 1400-1800</td>
<td></td>
</tr>
<tr>
<td>ART 3A</td>
<td>Traditional Asian Art</td>
<td></td>
</tr>
<tr>
<td>ART 3B</td>
<td>Modern and Contemporary Asian Art</td>
<td></td>
</tr>
<tr>
<td>ART 5</td>
<td>Art of the Americas</td>
<td></td>
</tr>
<tr>
<td>ART 7</td>
<td>Introduction to Art and Visual Culture</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 20A</td>
<td>Beginning Drawing</td>
<td></td>
</tr>
<tr>
<td>ART 22</td>
<td>Beginning Painting</td>
<td></td>
</tr>
<tr>
<td>ART 24</td>
<td>Beginning Watercolor</td>
<td></td>
</tr>
<tr>
<td>ART 40B</td>
<td>Basic Printmaking: Etching</td>
<td></td>
</tr>
<tr>
<td>ART 40D</td>
<td>Basic Printmaking: Relief</td>
<td></td>
</tr>
<tr>
<td>ART 40E</td>
<td>Basic Printmaking: Silkscreen</td>
<td></td>
</tr>
<tr>
<td>ART 97</td>
<td>Beginning Electronic Art</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ART 50</td>
<td>Beginning Ceramics</td>
<td></td>
</tr>
<tr>
<td>ART 53</td>
<td>Beginning Hand-Built Ceramics</td>
<td></td>
</tr>
<tr>
<td>ART 70</td>
<td>Form, Space Vision</td>
<td></td>
</tr>
<tr>
<td>ART 74</td>
<td>Beginning Jewelry</td>
<td></td>
</tr>
<tr>
<td>ART 75</td>
<td>Beginning Metalsmithing</td>
<td></td>
</tr>
<tr>
<td>ART 86</td>
<td>Clay Sculpture</td>
<td></td>
</tr>
<tr>
<td>ART 88</td>
<td>Beginning Sculpture</td>
<td></td>
</tr>
<tr>
<td>Select nine units of upper division courses in studio art $^1$</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

$^1$ Must be selected in consultation with a faculty advisor.

### BA in Arts and Letters

**Units required for Major:** 36

**Advisors:**
Michele Foss-Snowden, Communications

### Eligibility Requirements

This multidisciplinary major is designed for students who have stopped-out in good standing from the pursuit of any major that aligns with degree program offerings in the College of Arts & Letters at Sacramento State or another university.

At the time of application, students must have met the following requirements:

1. Must have begun coursework in a degree program that aligns with a program offered by California State University, Sacramento’s College of Arts & Letters
2. Must not have been enrolled at university for at least 1 academic year
3. Completed at least 70 units of coursework (may be upper or lower division units).

4. Completed all lower-division GE requirements for California State University system at CSUS or another institution.
5. Have a minimum cumulative GPA not lower than 2.0.
General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>0</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>0</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>0</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>0</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>0</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>0</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>0</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>0</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
<tr>
<td>D1</td>
<td>The Individual and Society (3 Units)</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
<td>0</td>
</tr>
<tr>
<td>D3</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>E</td>
<td>Understanding Personal Development</td>
<td>0</td>
</tr>
</tbody>
</table>

Total Units: 36

1. At least 12 additional units must be upper division for a total of at least 24 upper division units.
2. Course also satisfies General Education (GE)/Graduation Requirement.
3. Department recommends Electives that meet Area C Requirements; see Program Requirements table above.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>3</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

Certificate in Arts Letters Entrepreneurship

The Certificate in Arts & Letters Entrepreneurship provides students with the essential business-oriented knowledge and entrepreneurial skillsets needed to be successful creative entrepreneurs. Students will develop skills that will help them create, work within, and contribute to arts and letters organizations including public, private, and self-initiated endeavors. As part of the certificate, students will learn the fundamentals of arts organization management and arts marketing and communication practices.

1. Any concurrent undergraduate degree in the departments of art, communication studies, design, english, history, humanities & religious studies, music, philosophy, theatre & dance, or world languages & literatures.

Certificate in Arts Letters Entrepreneurship

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALS 160</td>
<td>(new course: Arts Organizational Management and Communication)</td>
<td>3</td>
</tr>
<tr>
<td>ALS 161</td>
<td>(new course: Arts and Letters Entrepreneurship and Marketing)</td>
<td>3</td>
</tr>
<tr>
<td>ALS 195</td>
<td>Internship in Arts and Letters</td>
<td>3</td>
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</tbody>
</table>
Select 6 units from the following:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALS 102</td>
<td>Individual, Community, and Citizenship</td>
</tr>
<tr>
<td>ALS 151</td>
<td>The Studio: Explorations in Arts and Letters</td>
</tr>
<tr>
<td>ART 128</td>
<td>Art and the Artist in the Marketplace</td>
</tr>
<tr>
<td>ART 193</td>
<td>Art Gallery Management</td>
</tr>
<tr>
<td>COMS 100A</td>
<td>Survey of Communication Studies</td>
</tr>
<tr>
<td>COMS 100B</td>
<td>Rhetoric and Social Influence &lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>COMS 116</td>
<td>Intercultural Communication</td>
</tr>
<tr>
<td>COMS 117</td>
<td>Multimedia Communication</td>
</tr>
<tr>
<td>COMS 118</td>
<td>Survey of Public Relations</td>
</tr>
<tr>
<td>COMS 122</td>
<td>Writing for Interactive Media</td>
</tr>
<tr>
<td>COMS 140</td>
<td>Online Collaboration</td>
</tr>
<tr>
<td>COMS 145</td>
<td>Organizational Communication</td>
</tr>
<tr>
<td>DNCE 160</td>
<td>Creative Dance for Children</td>
</tr>
<tr>
<td>DNCE 131</td>
<td>Dance Cultures Of America</td>
</tr>
<tr>
<td>DNCE 132</td>
<td>African-Caribbean Dance</td>
</tr>
<tr>
<td>DSGN 101</td>
<td>World Design and Visual Culture</td>
</tr>
<tr>
<td>ENGL 105</td>
<td>Film Theory and Criticism</td>
</tr>
<tr>
<td>ENGL 116B</td>
<td>Children's Literary Classics</td>
</tr>
<tr>
<td>ENGL 120P</td>
<td>Professional Writing</td>
</tr>
<tr>
<td>ENGL 120T</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>ENGL 130A</td>
<td>Intermediate Fiction Writing</td>
</tr>
<tr>
<td>ENGL 130B</td>
<td>Intermediate Poetry Writing</td>
</tr>
<tr>
<td>ENGL 130C</td>
<td>Special Topics in Poetry Writing</td>
</tr>
<tr>
<td>ENGL 130F</td>
<td>Writing For Television</td>
</tr>
<tr>
<td>ENGL 130G</td>
<td>Between Genres: Flash Fiction/Prose Poetry</td>
</tr>
<tr>
<td>ENGL 130J</td>
<td>Writing Feature Film Scripts</td>
</tr>
<tr>
<td>ENGL 130M</td>
<td>Art of Autobiography</td>
</tr>
<tr>
<td>ENTR 187</td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td>FILM 129</td>
<td>Film and Video Production Management</td>
</tr>
<tr>
<td>FILM 130</td>
<td>Staging and Lighting Digital Video</td>
</tr>
<tr>
<td>HIST 166</td>
<td>Popular Culture</td>
</tr>
<tr>
<td>HIST 169</td>
<td>Hollywood and America</td>
</tr>
<tr>
<td>HIST 193</td>
<td>Public History</td>
</tr>
<tr>
<td>HIST 194</td>
<td>Oral History: Theory and Practice</td>
</tr>
<tr>
<td>HRS 137</td>
<td>Global Crossings: Art and Culture 1945 to Present</td>
</tr>
<tr>
<td>HRS 154</td>
<td>Food, Farming, and the Sacred</td>
</tr>
<tr>
<td>HRS 161</td>
<td>Multicultural America</td>
</tr>
<tr>
<td>HRS 162</td>
<td>American Space and Identity</td>
</tr>
<tr>
<td>HRS 169</td>
<td>Hollywood and America</td>
</tr>
<tr>
<td>HRS 181</td>
<td>Contemporary Issues in Film</td>
</tr>
<tr>
<td>HRS 185</td>
<td>Women in Film and American Culture</td>
</tr>
<tr>
<td>INTD 124E</td>
<td>Film/Design</td>
</tr>
<tr>
<td>MUSC 118B</td>
<td>American Popular Music: Jazz History</td>
</tr>
<tr>
<td>MUSC 118C</td>
<td>History of Rock Music</td>
</tr>
<tr>
<td>MUSC 118D</td>
<td>Hip-Hop in Urban America</td>
</tr>
<tr>
<td>MUSC 119A</td>
<td>World Music: Asia</td>
</tr>
<tr>
<td>MUSC 119B</td>
<td>World Music: Africa</td>
</tr>
<tr>
<td>MUSC 119C</td>
<td>World Music: Latin America</td>
</tr>
<tr>
<td>MUSC 127</td>
<td>The American Musical Theater &lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>MUSC 129</td>
<td>American Society and Its Music &lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>PHIL 101</td>
<td>Ethics and Social Issues</td>
</tr>
<tr>
<td>PHIL 102</td>
<td>Professional and Public Service Ethics</td>
</tr>
<tr>
<td>PHIL 103</td>
<td>Business and Computer Ethics</td>
</tr>
<tr>
<td>PHOT 102</td>
<td>Photography, a Social History</td>
</tr>
<tr>
<td>THEA 107</td>
<td>Directing</td>
</tr>
<tr>
<td>THEA 115</td>
<td>Puppetry</td>
</tr>
<tr>
<td>THEA 118</td>
<td>Children's Theatre</td>
</tr>
<tr>
<td>THEA 123</td>
<td>Lighting and Set Design</td>
</tr>
<tr>
<td>THEA 131</td>
<td>Costume Design</td>
</tr>
<tr>
<td>THEA 174</td>
<td>Multicultural Perspectives in American Theatre &lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>THEA 175</td>
<td>Multicultural Perspectives in American Film &lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

Total Units: 15

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1. The certificate is designed to choose two courses (6 units) that overlap with major requirements. Please consult with the Certificate Coordinator for additional advising in course selections.

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**Communication Studies**

**College of Arts and Letters**

**Program Description**

Communication Studies is a broad-based discipline concerned with the exchange of messages in interpersonal and mediated situations and with the impact of such exchanges on society. Courses focus on understanding the communication process and developing skills to communicate effectively. The Department offers a wide range of courses in interpersonal, group, and organizational communication, rhetorical theory and criticism, public relations, mass communication and research methodologies.

The Journalism program at Sacramento State educates its students in ethical, accurate and effective communication. We employ innovative methods in order to prepare students, enlighten the public and engage our communities. Our students become committed and versatile professionals with a strong background in both journalism theory and practice.

The Film Program offers interdisciplinary coursework in the areas of film production, history, theory, criticism, and writing. The Film major aims at developing a deeper understanding of the art and practice of film, its complex components, and the artists whose vision have inspired generations of filmmakers. All students are required to take a common core that provides a foundation for film criticism and production. After completing the core, students select either the film studies or film production track. Students are supervised by the Film Coordinator.

**Degree Programs**

Communication Studies (p. 151)

Journalism (p. 172)

Film Studies (p. 172)

**Special Features**

- Communication Studies faculty possess professional expertise and academic excellence. Faculty maintain a high level of scholarly publication, creative activity, consulting, and outstanding teaching.
- The Sacramento State Debate Program is highly ranked nationwide with opportunities for both experienced and beginning debaters.
The Department's Internship Program serves over 100 students each semester with internships in government agencies, private industry, TV stations, and public service organizations.

The Department sponsors Epsilon Phi, a chapter of the National Communication honors society Lambda Pi Eta. Students eligible for membership participate in a variety of activities and are recognized at the university's graduation ceremony.

The Department also sponsors PRSA, our student chapter of the Public Relations Student Society of America.

Career Possibilities
Community Relations Director · Organizational Trainer · Organizational Newsletter Editor · Public Information Specialist · Media Technician · Organizational Consultant · Organizational Trainer and Developer · Personnel Staff · Public Service Agency Staff · Corporate Media Director · Communication Consultant · Public Relations Professional · Video Editor · Video Producer or Director · Health Educator · Fund Raiser · Media Sales and Promotion Staff · Multimedia Project Manager · Community College Instructor · Lobbyist · Speech Writer · Minister · Lawyer · Politician · Consumer Market Researcher · Staff Analyst · Focus Group Leader · Political Campaign Staff · Public Affairs Director · Advertising Account Executive · Reporter · Editor · Columnist · Editorial Writer · Magazine Writer · Speech Writer · Correspondent · Public Affairs Manager · Legislative Assistant · Press Relations Officer · Public Information Specialist · Technical Writer/Editor · Broadcast Journalist · News Director · Disc Jockey · News Producer · Online Journalist · Videographer · Cinematographer · Production Coordinator · Production Assistant · Lighting Designer · Gaffer · Grip · Film/Video Director · Production Sound Mixer · Sound Editor · Screenwriter · Script Supervisor · Video Editor · Effects Editor · Independent Filmmaker · Film Critic

Contact Information
Gerri Smith, Department Chair
Katrina Roose, Administrative Support Coordinator II
Mendocino Hall 5014
(916) 278-6688
Department of Communication Studies Website (https://www.csus.edu/college/arts-letters/communication-studies/)

Faculty
AGUILAR, KIMBERLY
BONILLA, DIEGO
DUGAN, MOLLY A.
FLORES, CARLOS
FOSS-SNOWDEN, MICHELE S.
GALE, ELAINE E.
GALLO, FERNANDO
HONG, CHENG
HOWARD, TIMOTHY L.
IRWIN, JACQUELINE "Jaccie"

JANOS, DAN
KASIC, KATHY
LUDWIG, MARK D.
MALVINI REDDEN, SHAWNA
MILLER, CHRISTINE
MORLEY, MORGAN
NEWSOME, CHEVELLE A.
OMORI, KIKUKO
REESE, PHILLIP
STARK, JENNY
STITT, CARMEN
TERRY, ANDREA
TUDOR, KRISTEN A.
WILLIAMS, MARK A.E.
WOO, NATE
ZUCKERMAN, S. DAVID

Communication Studies

Program Description
Communication Studies is a broad-based discipline concerned with the exchange of messages in interpersonal and mediated situations and with the impact of such exchanges on society. Courses focus on understanding the communication process and developing skills to communicate effectively. The Department offers a wide range of courses in interpersonal, group, and organizational communication, rhetorical theory and criticism, public relations, mass communication and research methodologies.

Degree Programs
BA in Communication Studies (General Communication): (p. 162)

- For students who focus on International and Intercultural; Interpersonal Communication; Mass Communication; New Media; Organizational Communication; Rhetoric and Social Influence or Small Group Communication.

BA in Public Relations (https://catalog.csus.edu/colleges/arts-letters/communication-studies/communication-studies/ba-public-relations/)

- For students who wish to prepare for a professional career in public relations.

Minor in Communication (p. 167)

Minor in Digital Communication and Information (p. 167)

MA in Communication Studies (p. 165)
Special Features

- Communication Studies faculty possess professional expertise and academic excellence. Faculty maintain a high level of scholarly publication, creative activity, consulting, and outstanding teaching.
- The Sacramento State Debate Program is highly ranked nationwide with opportunities for both experienced and beginning debaters.
- The Department's Internship Program serves over 100 students each semester with internships in government agencies, private industry, TV stations, and public service organizations.
- The Department sponsors Epsilon Phi, a chapter of the National Communication honors society Lambda Pi Eta. Students eligible for membership participate in a variety of activities and are recognized at the university's graduation ceremony.
- The Department also sponsors PRSA, our student chapter of the Public Relations Student Society of America.

Career Possibilities

Community Relations Director · Organizational Trainer · Organizational Newsletter Editor · Public Information Specialist · Media Technician · Organizational Consultant · Organizational Trainer and Developer · Personnel Staff · Public Service Agency Staff · Corporate Media Director · Communication Consultant · Public Relations Professional · Video Editor · Video Producer or Director · Health Educator · Fund Raiser · Media Sales and Promotion Staff · Multimedia Project Manager · Community College Instructor · Lobbyist · Speech Writer · Minister · Lawyer · Politician · Consumer Market Researcher · Staff Analyst · Focus Group Leader · Political Campaign Staff · Public Affairs Director · Advertising Account Executive

Contact Information

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Department of Communication Studies Website (p. 151)

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WOQ, NATE
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COMS 2. Argumentation. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Practice in argumentation, critical evaluation, evidence, and reasoning. Basic principles are applied in a variety of formal and informal advocacy situations. Concepts of argument structure and context are discussed and applied.

Note: Majors must complete with a grade of "C-" or better.

COMS 4. Introduction to Public Speaking. 3 Units
General Education Area/Graduation Requirement: Oral Communication (A1)
Term Typically Offered: Fall, Spring

Theory and technique of public speaking. Emphasis on organizing, supporting, and clearly stating ideas. Practice in informative and persuasive speaking.

COMS 4H. Honors Public Speaking. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Oral Communication (A1)
Term Typically Offered: Fall, Spring

Provides both theoretical and practical training in the art of public discourse. Students learn both to recognize and to demonstrate the strategic processes of organizing and delivering speeches, especially within the context of global citizenship issues. Students are also introduced to the basic idea of forming reasonable challenges to speech in the public square.
COMS 5. The Communication Experience. 3 Units
General Education Area/Graduation Requirement: Oral Communication (A1)
Term Typically Offered: Fall, Spring

Basic skills and introductory concepts necessary for effective communication in a variety of settings. Special emphasis on practical experiences within groups, facilitation of interpersonal relationships, and methods of conflict resolution.

Note: Not recommended for COMS majors in General, Organizational or Public Relations concentrations.

COMS 8. Interpersonal Communication Skills. 3 Units
Term Typically Offered: Fall, Spring

Basic skills and introductory concepts for examining and altering interpersonal communication. In addition to lectures and discussions, students engage in structured interpersonal exercises and simulations to practice interpersonal communication skills such as listening, paraphrasing, describing feelings and intentions, and giving and receiving criticism.

Note: Majors must complete with a grade "C-" or better.

COMS 20A. Audio Production. 2 Units
Corequisite(s): COMS 20B.
Term Typically Offered: Fall, Spring

Introduction to the theory and practice of audio production in radio, television, film and recording applications. Cross listed: FILM 20A.

COMS 20B. Audio Production Laboratory. 1 Unit
Corequisite(s): COMS 20A.
Term Typically Offered: Fall, Spring

Experience in audio console operation, microphone selection and use, and audio recording in radio, television, film and recording applications. Cross listed: FILM 20B.

COMS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Helps students to develop and exercise fundamental academic success strategies and to improve their basic learning skills. Students interact with fellow students and the seminar leader to build a community of academic and personal support.

COMS 26. Introduction to Capturing and Editing Digital Media. 3 Units
Term Typically Offered: Fall, Spring

Developing skills in producing photographic, graphic and animated materials used for the World Wide Web and multimedia.

COMS 27A. Digital Film/Video Production. 2 Units
Corequisite(s): COMS 27B.
Term Typically Offered: Fall, Spring

Addresses the theory and practice of film/video production. Students will be expected to understand: camera operation, audio control, basic directing, lighting, and editing. Students will also be expected to learn the terminology of video production/post-production and use this terminology competently. Students enrolled in COMS 27A must be concurrently enrolled in COMS 27B. There are no exceptions to this requirement.

Cross-listed: FILM 27A

COMS 27B. Digital Film/Video Production Laboratory. 1 Unit
Corequisite(s): COMS 27A.
Term Typically Offered: Fall, Spring

Provides practical, hands-on experience in video production. Students will be expected to become proficient in all production roles: camera operation, audio control, basic directing, lighting, and editing. Students enrolled in COMS 27B must be concurrently enrolled in COMS 27A.

Cross listed: FILM 27B.

COMS 55. Media Communication and Society. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the basic concepts of mass communication, including the effects, uses, and functions associated with the goods and services of mass media. Examination of the ways mass media combine with other institutions to affect the organization, design, and comprehension of messages, as well as political thought, cultural beliefs, and economic behavior.

Note: Majors must complete with a grade "C-" or better. Cross Listed: JOUR 55; only one may be counted for credit.

COMS 100A. Survey of Communication Studies. 3 Units
Term Typically Offered: Fall, Spring, Summer

Survey of various theories of communication. Attention given to such topics as verbal and nonverbal coding, information processing, interpersonal and small group communication, organizational communication, the structure and effects of mediated communication, rhetorical criticism, and research in communication.

Note: Majors and minors must complete with a grade of "C-" or better.

COMS 100B. Rhetoric and Social Influence. 3 Units
Prerequisite(s): COMS Studies Majors only. COMS 2, COMS 4, (COMS 5 is accepted for COMS 4 for MCOM majors) or transfer equivalents and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).
Corequisite(s): COMS 100A
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Detailed examination of texts on controversial issues in order to illustrate the varied forms of rhetorical action and the diverse modes of rhetorical analysis. Examples drawn from the literature of classical/contemporary rhetors.

Note: Majors must complete with a grade of "C-" or better; Writing Intensive
COMS 100C. Introduction to Scientific Methods in Communication Research. 3 Units
Prerequisite(s): COMS 100A; may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Empirical methods commonly applied during communication research. An introduction to the concepts fundamental to the scientific study of communication, including conceptual and operational definitions, sampling, measurement, experimental design, independent and dependent variables, and quantitative data analysis.
Note: Majors must complete with a grade of "C-" or better.

COMS 101. Information Management and Privacy. 3 Units
Term Typically Offered: Fall

Students develop skills to use information proficiently in digital environments. In order to cope with information overload, students learn how to define and limit informational needs, how to access and evaluate information critically, and how to analyze and integrate information purposefully. The course teaches students evolving strategies and techniques for maintaining personal information spaces and security.

COMS 103. Presentational Speaking in the Organization. 3 Units
Prerequisite(s): A general education oral communication course.
Term Typically Offered: Fall, Spring, Summer

Contemporary communication techniques for use in business and industry. Principles and practice of oral reporting, persuasive speaking, conference participation, and interpersonal interaction.
Note: COMS majors are urged to take COMS 104 instead of COMS 103.

COMS 104. Persuasive Public Speaking. 3 Units
Prerequisite(s): COMS 2, COMS 4, or instructor permission.
Term Typically Offered: Fall, Spring

Advanced public speaking focusing upon persuasive strategies, principles and techniques.

COMS 105. Communication in Small Groups. 3 Units
Term Typically Offered: Fall, Spring, Summer

Theory and practice in small group communication. Topics include leadership, meeting management, evolution of group norms, phases of group development, communication networks, good communication techniques, conflict management, and problem solving in a variety of contexts.

COMS 106. Digital Media Creation - An Introduction. 3 Units
Term Typically Offered: Fall, Spring

Students learn multimedia authoring through the manipulation of digital media downloaded legally from online repositories. Students learn how to digitally edit pixel-based images, vector images, audio, video and 3D models, while learning the principles that govern all digital media. The course uses Open Source and specialized software.

COMS 107. Children And Television. 3 Units
Term Typically Offered: Fall, Spring

Cognitive, affective, and behavioral effects of television on children. Explores in detail issues such as televised violence, stereotyping, advertising and cognitive development. Discusses relationship between television and education.

COMS 108. Family Communication. 3 Units
Prerequisite(s): COMS 8 or FACS 50 or SOC 166, or instructor permission.
Term Typically Offered: Fall, Spring

Family as a small group with emphasis on understanding and interpreting the dynamics of family communication and socio-psychological theories. Cross Listed: FACS 108; only one may be counted for credit.

COMS 110. Advanced Debate Workshop. 1 Unit
Term Typically Offered: Fall, Spring

Participation in intercollegiate debate competition.
Credit/No Credit

COMS 111. Debate Research Practicum. 3 Units
Term Typically Offered: Fall only

Directed research in the current intercollegiate debate topic; identification of issues, compilation of evidence, and case building.
Note: May be taken four times for credit with instructor permission.

COMS 114. Communication and American Culture. 3 Units
Term Typically Offered: Fall, Spring, Summer

Critical analysis of the ways modern American media interact with the conduct of American life; emphasizes the role of commercialism and other aspects of contemporary American capitalism; examines the problem of personal development and relationships in the context of a commercially dominated media system.

COMS 115. Nonverbal Communication. 3 Units
Term Typically Offered: Fall, Spring

Nonverbal communication will focus on the nonverbal aspects of human communication. Students will learn the vocabulary of nonverbal communication (NVC) as we examine the nature of NVC, NVC Codes, and the effects of NVC on messages we receive and send. In addition, we will consider nonverbal behaviors in interpersonal relationships, intercultural communication and research in nonverbal.

COMS 116. Intercultural Communication. 3 Units
Term Typically Offered: Fall, Spring, Summer

Analysis of factors which influence communication between individuals of different cultures and cocultures. Discussion and practical application.

COMS 117. Multimedia Communication. 3 Units
Prerequisite(s): COMS 106
Term Typically Offered: Fall, Spring

Students create and integrate information and digital media with the purpose of informing or persuading an audience. By identifying communication needs, students learn to prepare multimedia presentational aids and standalone multimedia presentations for distribution in online environments. This course features topics in visual communication, story-boarding, presentation and delivery.
COMS 118. Survey of Public Relations. 3 Units
Prerequisite(s): At least one college writing course in ENGL or JOUR with a grade of "C-" or better.
Term Typically Offered: Fall, Spring
Introduces the student to publics, organization-environment relationships, structures, practices, and processes from a communication theory and research perspective. Specifically, the student is introduced to the multi-phased approach to public relations, an approach that highlights the PR subprocesses of task identification, task analysis, and task performance.

COMS 119. Conflict Resolution Through Communication. 3 Units
Term Typically Offered: Fall, Spring
Ways to identify, clarify, and resolve conflicts in dyads, groups, and organizations. Conflict is contrasted with disagreement, aggression, incompatible values, etc. The costs and benefits of conflict are explored.

COMS 120. History of the Media. 3 Units
Prerequisite(s): COMS 55 or JOUR 55 or equivalent; may be taken concurrently.
Term Typically Offered: Fall, Spring
Examination of development of major mass communication media in the U.S. and of how the economics, content, regulation and audience use of the media have been affected by the way the media have evolved. Current issues and trends are discussed, as well as possible future development. Cross Listed: JOUR 120; only one may be counted for credit.

COMS 121. Media Aesthetics. 3 Units
Term Typically Offered: Fall, Spring
Overview and analysis of the primary aesthetic tools used to create messages in video and film. The basic properties of light, color, area, space, shape, sound, time and motion are defined and discussed as they relate to media production. Introduces students to the concepts and vocabulary necessary for effectively conceiving, producing or criticizing mediated messages. Designed primarily for students with interest in digital media. Provides a foundation for students working in media criticism. Cross listed: FILM 121.

COMS 122. Writing for Interactive Media. 3 Units
Prerequisite(s): ENGL 1A and ENGL 20 or (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.)
Term Typically Offered: Fall, Spring
Writing and editing for visual, audio, and interactive media. How to choose appropriate format and delivery mechanisms for news, web sites, kiosks, and CD/DVD. Topics include copyright law and information ethics.

COMS 123. Writing for Public Relations. 3 Units
Prerequisite(s): JOUR 30; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Term Typically Offered: Fall, Spring
Organization and operation of communication media; practice in publicity and public relations techniques. Emphasis on clear writing and correct public relations formats such as releases, PSAs, articles, and speeches. Cross listed: JOUR 123

COMS 124. Writing Scripts for Film/Video. 3 Units
Prerequisite(s): ENGL 1A and ENGL 20.
Term Typically Offered: Fall, Spring
Developing narratives, documentaries, educational, promotional, and experimental short screenplays. Students are expected to develop a writing style and master screenwriting and audio/visual scripting formats. Scripts will be developed to be produced in advanced production courses: COMS/FILM 128 and COMS/FILM 185.
Cross listed: FILM 124.

COMS 126. Motion Graphics in Film and Video. 3 Units
Prerequisite(s): COMS 20A, COMS 20B and COMS 26 or both COMS 27A and COMS 27B each with a grade of "B-" or better or instructor permission.
Term Typically Offered: Fall, Spring
Theory and practice of producing and directing television programs with emphasis on studio and control room techniques.

COMS 127. Producing and Directing for Television. 3 Units
Prerequisite(s): COMS 20A, COMS 20B, COMS 27A, COMS 27B, each with a grade of "B-" or better.
Term Typically Offered: Fall, Spring
Continued exploration of the digital filmmaking process through lecture, lab, and practical application. Project-based learning emphasizes working as a crew and the three distinct stages of production: prep, production, and post. Students write, produce, direct and edit original content to bring projects to fruition. Cross-listed: FILM 128.

COMS 128. Intermediate Production. 3 Units
Prerequisite(s): FILM/COMS 20AB with a grade of "C" or better. FILM/COMS 27AB with a grade of "C" or better.
Term Typically Offered: Fall, Spring
Management and administration of the preproduction and production process. Course to include script breakdown, budgeting, scheduling and other preproduction and production management skills needed for film or video production. Special attention on the history, development and current practices of the Production Manager.
Cross listed: FILM 129.

COMS 130. Staging and Lighting Digital Video. 3 Units
Prerequisite(s): COMS 20A, COMS 20B, COMS 27A, COMS 27B, each with a grade of B- or better.
Term Typically Offered: Fall, Spring
Introduction to the aesthetics, concepts and techniques used to control lighting in digital video productions. Aspects of staging, blocking and composition in the context of studio and location lighting.
Note: Students enrolled are required to work on productions outside of scheduled class time (1-3 hours/week). Cross listed: FILM 130.
COMS 133. The Documentary Film. 3 Units
Term Typically Offered: Fall, Spring
Examines the historical, development, and present state of documentary film. Emphasis is on both understanding and critically analyzing the significance of various genres of the documentary and its uses as a tool for information, proselytizing, education, and propaganda.

COMS 136. Introduction to Electronic Publishing. 3 Units
Prerequisite(s): COMS 26 or instructor permission.
Term Typically Offered: Fall, Spring
Design and production of information sites for the World Wide Web. Concepts covered include market analysis, cognitive design, layout, navigation, interactive strategies, site management, and multimedia components for electronic distribution systems. Introduction to object oriented programs and XHTML text editors.

COMS 140. Online Collaboration. 3 Units
Term Typically Offered: Fall, Spring
Students learn to communicate in virtual environments in real-time and asynchronously. Students survey current technologies for collaboration, explore psychological and cultural aspects of individuals working and communicating in teams across computer networks, and identify strategies to foster cooperatives in distributed work.

COMS 141. Theory of Film and Video Editing. 3 Units
Prerequisite(s): COMS/FILM 27A and COMS/FILM 27B with final posted grade of C or better.
Term Typically Offered: Fall, Spring
Study of history and theory of film and video editing. Many films are viewed and discussed, examining how editing theory is put into practice. Cross listed: FILM 141.

COMS 142. Film As Communication. 3 Units
Term Typically Offered: Fall only
Explores the uses of film as a tool of communication.

COMS 143. Theories of Interpersonal Communication. 3 Units
Prerequisite(s): COMS 8 or equivalent; COMS 100A may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer
One-to-one communication between individuals in both social and task settings. Theories of communication during the growth and decay of relationships, as well as research on the forces behind relational dynamics. Topics include nonverbal communication, self concept, communication of self, theories of conflict resolution, communication competence and the rhetoric of disconfirmation.

COMS 144. Developing Rich Media Websites. 3 Units
Prerequisite(s): COMS 27A, and COMS 27B.
Term Typically Offered: Fall, Spring
An introduction to the creation of multimedia websites using current multimedia development software such as Flash. Emphasis will be placed on creating interactive video and formatting video programs for delivery over the WWW, extranets, or intranet.

COMS 145. Organizational Communication. 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Fall, Spring, Summer
Basic concepts of interpersonal and inter-group communication within formal and informal social organizations. Current techniques of auditing and evaluating organizational communication.

COMS 149. Multimedia Authoring. 3 Units
Prerequisite(s): COMS 106, COMS 126.
Term Typically Offered: Fall, Spring
Basic multimedia authoring theory and skills. Text, graphics, audio, and video are synchronized into interactive media. Topics include 2D animation, interface design, and fundamentals of scripting language.

COMS 150. Mass Communication Theories and Effects. 3 Units
Prerequisite(s): COMS 55 or JOUR 55 or equivalent; and COMS 100A which may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer
Survey of the major theories dealing with the relationship between the mass media and human communication behavior. Examination of research into the social, political, economic and cultural effects of mass communication.

COMS 152. Freedom Of Speech. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Thorough introduction to issues related to freedom of speech and censorship, sections of the historical origins of free speech, seditious speech, libel and slander, pornography and obscenity, commercial speech and advertising, symbolic speech and hate speech. The class brings a communication focus to addressing issues related to the First Amendment.

COMS 153. Journalism Law and Ethics. 3 Units
Term Typically Offered: Fall, Spring
Laws and regulations that govern print, broadcast, and the electronic mass media in the U.S. Discusses the process by which laws and regulations are enacted and interpreted as well as legal and regulatory issues concerned with the content, control, political role and responsibilities of media practitioners, regulators, Congress, and the public.
Cross listed: JOUR 153

COMS 154. Instructional Design and Training. 3 Units
Term Typically Offered: Fall, Spring
Communication theory and practice in organizational training. Surveys instructional communication theory and the instructional design process. Focus on effective communication in training contexts. Topics include needs assessment, training design, training evaluation and training delivery via electronic media.

COMS 155. Survey of World Cinema. 3 Units
Term Typically Offered: Fall, Spring
A historical review of the development of major international film styles and themes. Concepts derived from this study of international film are then used as a basis to analyze contemporary films of India, Asia, and Africa. Emphasis is on both the development of formal film technique and a comparison of the unique cultural values that shape the film narrative and style.
COMS 157. Video Art.  3 Units
Prerequisite(s): ART 97 or COMS 27A/Film 27A and COMS 27B/Film 27B.  Term Typically Offered: Fall, Spring

The creation and analysis of video artwork; including techniques of video production, post-production manipulation and critique, within the context of art and communication. The techniques and theory of producing and editing video will serve as a foundation for the pursuit of individual, creative projects. Cross-listed as ART 147; only one may be counted for credit.

COMS 158. Public Relations Planning and Management.  3 Units
Prerequisite(s): COMS 118 and COMS 123 or JOUR 123 with grade of "C-" or better.  Term Typically Offered: Fall, Spring

Theoretical concepts to the solution of problems for pre-selected non-profit and campus clients by forming small group PR agencies; completing needs assessments; profiling target and secondary audiences; developing and implementing a strategic public relations plan; producing targeted messages for media kits and other uses; developing and evaluating formative and summative evaluation plans; and making formal in-class presentations to peers, clients and invited PR professionals. Students will also learn how to negotiate contracts, maintain client relations, track work on projects and develop timelines and budgets. Cross Listed: JOUR 158; only one may be counted for credit.

COMS 160. Political Communication.  3 Units  Term Typically Offered: Fall only

Analyzes the relationship between mass media and political decision-making, including a structural analysis of political and media institutions. Particular attention on the formation of public opinion through messages and strategies, and the impact of public opinion on public policy.

COMS 161. Health Communication.  3 Units  Term Typically Offered: Fall, Spring

Communication principles and techniques as they apply to the many facets of health care, health education and promotion, and research in health communication. Emphasis on understanding and improving communication among health professionals, and between health professionals and clients. Explores the rapidly emerging field of health communication. Selected concepts and theories of human communication are directly applied to communication problems and situations in health care settings through the use of case studies. In addition, pertinent research that helps explain human interaction in health care is incorporated through readings and discussions.

COMS 162. Gender Ideology and Communication.  3 Units
Prerequisite(s): COMS 100A  Term Typically Offered: Fall, Spring

Scholarly, theoretical and critical writings on the production and circulation of gender roles, images, and gender-types attributes through communication, with a special focus on mass-mediated communication such as television, video, and film.

COMS 163. Propaganda, Power, & Manipulation.  3 Units  Term Typically Offered: Fall, Spring

This course will map major moments in the development of power and propaganda as a communication apparatus, identify the discursive and media presentations of ideologies, and engage in struggles for control and resistance. Twentieth century propaganda sought to advance nationalism, advertise consumer society, and enact war. The 21st century ¿clash of civilizations¿ couples media and events into circulation of acts of terror. With post-modern social media, novel interactions among communication apparatus, norms, and global entities generate new threats and opportunities.

COMS 164. Visual Communication.  3 Units
Prerequisite(s): COMS 100A and 100B or equivalent, with a grade of C- or better.  Term Typically Offered: Fall, Spring, Summer

Comprehensive overview of the theoretical concepts and communication methodologies appropriate for analysis of contemporary visual messages. Focuses on rhetorical analysis of visual messages. Significant research and critical writing required.

COMS 165. Communication and Religion.  3 Units  Term Typically Offered: Fall, Spring, Summer

Examines the history, development and present state of religious communication. Discussion of the limits and challenges communication theories face when confronted with situations requiring them to describe the indescribable. Emphasis upon the communication methods in a religious context as well as the communication strategies, limits, and possibilities that are revealed in what is arguably the most extreme of communication situations: the intersection of religion and words.

COMS 166. Theories of Persuasion and Attitude Change.  3 Units  Term Typically Offered: Fall, Spring

Various theories of persuasion and attitude change, both classical and empirical, in terms of their effectiveness and social impact. Includes units on production and consumption of persuasive messages.

COMS 167. Systems and Theories of Rhetoric.  3 Units
Prerequisite(s): COMS 100B or equivalent with a grade of "C-" or better.  Term Typically Offered: Fall, Spring, Summer

Historical survey of theories of rhetoric. Comparison/contrast of scope and value of rhetorical theories. Practice in critical writing.

COMS 168. Approaches to Rhetorical Criticism.  3 Units
Prerequisite(s): COMS 100B or equivalent with a grade of "C-" or better.  Term Typically Offered: Fall, Spring, Summer

Analyzes rhetorical events, using a variety of critical perspectives. Current issues on criticism's function and the critic's role. Practice in critical writing.

COMS 169. Television Criticism.  3 Units
Prerequisite(s): COMS 100B with a grade of C- or better; completion of 12 units of upper division COMS courses; or unclassified graduate student status; or instructor permission.  Term Typically Offered: Fall, Spring, Summer

Introduction to television criticism theory and to various critical methods with which television program texts may be analyzed. Current theoretical and critical issues in the function of criticism and the role of the critic are addressed through readings, writing assignments, screenings and discussion.
COMS 170. Data Analysis in Communication Research. 3 Units
Prerequisite(s): COMS 100C or equivalent with a grade of "C-" or better; or instructor permission.
Term Typically Offered: Fall, Spring, Summer
Introduction to the application of data analysis to the study of communication processes.

COMS 171. Survey Methods in Communication Research. 3 Units
Prerequisite(s): COMS 100C or equivalent with a grade of "C-" or better; or instructor permission.
Term Typically Offered: Fall, Spring, Summer
Techniques of survey research in communication, including sampling, questionnaire construction, interviewing, data analysis, and report writing. Each student designs and executes a research project.

COMS 172. Content Analysis. 3 Units
Prerequisite(s): COMS 100C or equivalent with a grade of "C-" or better; or instructor permission.
Term Typically Offered: Fall, Spring
Content analysis as a research technique in communication. Emphasizes design and execution of content analysis studies in a wide range of communication situations. Each student completes several short studies and a major project.

COMS 172A. Qualitative Research Methods in Communication. 3 Units
Prerequisite(s): COMS 100B, or instructor permission.
Term Typically Offered: Fall, Spring
Focuses on qualitative research methods as one methodological option to use in scholarly research. Emphasizes the design and execution of a qualitative research project using tools such as interviewing, focus groups, and observational methods. Each student designs and completes a research project.

COMS 173. Communication, Language and Culture. 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Spring only
Cross-cultural exploration of communication and social interaction; relationship between language and society; cross-cultural implications of values embodied in message production, transmission, and interpretation; studies of how language influences perception and organization of social reality; linguistics, information and message transmission.
Note: Restricted to junior and above or instructor permission.

COMS 174. International Communication. 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Fall, Spring, Summer
Movement of mediated messages across and between national boundaries. Topics include news and entertainment flow, media systems and philosophies, cultural dependency and imperialism, the new world information order and communication development.

COMS 175. Creative Problem Solving. 3 Units
Term Typically Offered: Fall, Spring
Creative problem solving techniques for use by individuals and groups. Topics include the nature of creative problem solving, barriers to creativity, clear problem definition, idea generation, decision making, group dynamics in creative situations, implementation of changes, and overcoming resistance to change.

COMS 176. Communication and Terrorism. 3 Units
Prerequisite(s): COMS 100A or instructor permission
Term Typically Offered: Spring only
This course addresses the communication aspects of terrorism, including both the ways terrorism has been used to make political and religious statements worldwide; how the media cover those messages; and how we talk about those messages and the coverage they receive. The course draws on the cutting-edge communication research from international/intercultural, political, mass communication, and computer-mediated communication sources. This is a course in the communication of terrorism. It is neither a course in the political science of terrorism nor in the criminal justice enforcement of counter-terrorism.

COMS 177. Virtual Communities on the Internet. 3 Units
Term Typically Offered: Fall, Spring
The nature of communication in virtual communities on the Internet and the impact that these communities have on traditional communication media. Topics include: the interaction of real and cyber communities, self-publishing, educational uses of virtual communities, virtual self-governance, artificial intelligent agents, and the issues of security, privacy, and anonymity. Students will participate in structured on-line activities.

COMS 178. Media, Sports, and Society. 3 Units
Term Typically Offered: Spring only
Examines and critiques the relationship between the mass media and sports. Reviews theoretical approaches for studying media and sports (including historical, sociological, psychological, political, and cultural studies perspectives), then examines how sport is mediated through literature, print journalism, radio, and television.

COMS 179. Senior Seminar in Organizational Communication. 3 Units
Prerequisite(s): COMS 145; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer
Seminar on communication theories, techniques and research methodologies in the field of social and governmental organizational systems.

COMS 180. Senior Seminar in Small Group Communication. 3 Units
Prerequisite(s): COMS 105; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer
Seminar on the ways theories of group communication are realized in actual social settings.

COMS 181. Senior Seminar in Interpersonal Communication. 3 Units
Prerequisite(s): COMS 8, COMS 143, and completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer
Seminar on advanced theories of interpersonal communication. Sample topics include relational development, relational termination, communication and interpersonal attraction, and communication competence. Students present one in-class report and complete a major research paper.
COMS 183. Senior Seminar in Media Issues and Ethics. 3 Units
Prerequisite(s): COMS 55 or JOUR 55; COMS 150; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring
Seminar on the functions and roles of communication media in contemporary society. Includes issues and ethical considerations associated with freedom, responsibility and control examined from the points of view of the media, the government and the public. Specific topics will vary.

COMS 184. Social Media and Public Relations. 3 Units
Prerequisite(s): COMS 118 Survey of Public Relations
Term Typically Offered: Fall, Spring
Examine and apply public relations principles and strategies to research, plan, execute, and evaluate social media management on different platforms. Through discussion, simulation projects, and certificate education, students explore brand communication strategies with different social media tools, social media policy, influencer marketing, employee advocacy, crisis social media, and social media measurement.

COMS 184B. Multimedia Project Completion. 3 Units
Prerequisite(s): Instructor permission.
Corequisite(s): COMS 184A.
Term Typically Offered: Fall, Spring
Second of a two-semester senior project sequence. Students complete the project designed in COMS 184A. Projects are completed with assistance and feedback from the instructor, client, and working professionals.

COMS 185. Senior Practicum in Video Production. 3 Units
Prerequisite(s): COMS/FILM 124 with a final posted grade of C or better; COMS/FILM 128 with a final posted grade of C or better.
Term Typically Offered: Fall, Spring
Assignments in various phases of video production including creative use of camera, sound and lighting, editing production design, production planning and management, and directing and producing. Students in first semester function as crew members for productions.
Note: May be repeated once for credit. Repeating students are expected to produce and direct a major student project. Cross listed: FILM 185.

COMS 186. Seminar in Health Communication. 3 Units
Term Typically Offered: Fall, Spring
Examines how health messages impact individuals, communities, and mass audiences. Critiques health communication research, raises awareness about health-related messages in our daily lives, applies theories of health communication, and critically analyzes how the creation, sending, and reception of health messages impacts society. Sample topics include doctor-patient communication, cross-cultural communication about health, and mass media effects of health-related images in media.

COMS 187. Issue Management and Case Studies in Public Relations. 3 Units
Prerequisite(s): COMS 118; completion of 12 units of upper division COMS courses.
Term Typically Offered: Fall, Spring
Examines the management of issues in the public and private sectors including knowledge and skills in the communication activities and thinking processes that affect an issue's development. Uses case studies of organizations--governmental agencies, businesses, and not-for-profit entities to assess issue development and management by examining the fundamental questions confronting organizations: What should the particular organization do and how should it do it? Examines criteria for selecting among alternative options, and the relation of the organization to its environment. Explores the broader social, legal, and ethical implications of the organization's activities.

COMS 188. Senior Seminar in Intercultural Communication. 3 Units
Prerequisite(s): COMS 116; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer
Critically examines and analyzes complex dynamics and concepts in communication and culture in a pluralistic society. Also relates various perspectives on intercultural communication theories and methods to an analysis of social interaction processes among culturally diverse groups. An interactive dimension includes problem-solving strategies.

COMS 189. Practicum in Communication Training. 3 Units
Prerequisite(s): COMS 145 and COMS 154 or instructor permission.
Term Typically Offered: Spring only
Students work in groups to complete organizational training projects within community organizations. After assessing the organization's needs, students design, conduct and evaluate training. Advanced readings and professional competencies are emphasized.

COMS 190. Human Communication on the Internet. 3 Units
Term Typically Offered: Fall only
Provides an in-depth study of communication models that summarize and explain the interaction of humans in electronic environments, especially the Internet. Students locate, organize, analyze, an synthesize the latest research in online communication and make connection between theoretical models and their own experiences.

COMS 191. New Media and Society. 3 Units
Term Typically Offered: Fall, Spring, Summer
The course examines contemporary social, cultural, political and economic topics regarding the adoption of digital media and the Internet. Students understand their role as citizens of a global knowledge-based society and the ethical dimensions brought by the new computer-enabled media environment.

COMS 192. Senior Seminar in Film. 3 Units
Prerequisite(s): Completion of the Film Studies upper and lower division core or COMS 142, and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Spring only
Research seminar that provides an in-depth investigation of film as an art form, a medium of mass communication and a means of personal expression. Subject will vary according to instructor. Cross listed: FILM 192.
COMS 194. Communication Studies - Related Work Experience. 3 - 6 Units

Prerequisite(s): Open only to upper division or graduate students with appropriate course preparation. Units may not be used to meet COMS major, minor or graduate course work requirements. Consent of Communication Studies Department faculty advisor required. No more than 12 units may be counted toward the degree.

Term Typically Offered: Fall, Spring

Supervised employment in a company or agency working on communication studies-related assignments, arranged through the Department of Communication Studies and the Cooperative Education Program office. Requires preparation of application packet, completion of a 6 month full-time or part-time work assignment, and a written report. Credit/No Credit

COMS 195. Internship in Communication Studies. 1 - 6 Units

Prerequisite(s): COMS 100A, minimum 2.3 overall GPA.

Corequisite(s): COMS 100A.

Term Typically Offered: Summer only

Directed work experience in the internship program. Supervision is provided by both instructional staff and the cooperating agency. Faculty approval required. Credit/No Credit

COMS 196R. Latin American Rhetoric. 3 Units

Prerequisite(s): COMS 100B

Term Typically Offered: Fall, Spring

This course combines historical and rhetorical perspectives to examine the development of Latin American public culture. Studying different types of public discourse that combine intellectual sophistication with literary merit (including speeches, essays, poetry, and art), will illuminate how a unique public culture developed in Latin America, born from the roots of European and indigenous traditions. As we analyze these texts, we will examine what contributions their authors make to the field of rhetoric and rhetorical theory.

COMS 199. Special Problems. 1 - 3 Units

Prerequisite(s): COMS 100A.

Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students who wish to attempt independent work. Faculty approval required. Credit/No Credit

COMS 200A. Intro To Graduate Studies--Disciplinary History and Conventions. 1 Unit

Term Typically Offered: Fall only

This course introduces students to graduate-level research in Communication Studies, acquainting students with the discipline generally, and the CSUS Department of Communication Studies specifically. During this course, students will learn the: culture and expectations of graduate study, areas of inquiry in the discipline, sources for advanced research (including journals and databases, etc.), and conventions such as academic writing. Students will also learn about disciplinary structures, requirements for various degrees, types of academic/scholarly organizations, and venues for showcasing research.

Note: Required; COMS 200A and 200B can be taken in any order, and must be completed in the first two semesters of graduate study.

COMS 200B. Intro To Graduate Studies--Paradigm and Methods. 1 Unit

Term Typically Offered: Spring only

This course is an introduction and orientation to advanced research in Communication Studies, specifically focused on disciplinary paradigms and research methods. During this course, students will gain familiarity with the: culture and expectations of graduate study, various paradigms that underpin communication research, and the numerous methods used to research communication across various contexts, including qualitative, quantitative, critical. Students consider ways to successfully integrate into the communication discipline through a variety of class discussions, readings, and activities.

Note: Required; COMS 200A and 200B can be taken in any order, and must be completed in the first two semesters of graduate study.

COMS 201. Communication Theory. 3 Units

Term Typically Offered: Fall, Spring

This course critically examines the theoretical and paradigmatic foundations of the communication discipline. Students will learn the role of theory in research, and analyze general theories of communication and specific theories of rhetoric, symbolic interaction, information processing, interpersonal communication, small group communication, persuasion, organizational communication, and mass communication. Students practice analyzing, synthesizing, and contrasting relevant bodies of literature and theory. Must be taken within first two semesters of graduate enrollment.

Note: Graduate standing or instructor permission required; Graduate Writing Intensive

COMS 202. Quantitative Research Methods in Communication Studies. 3 Units

Prerequisite(s): Graduate student status or instructor permission.

Term Typically Offered: Fall, Spring

Introduction to advanced quantitative research methods. Students will demonstrate their ability to apply at least one research perspective to a significant topic of interest in the discipline. Students are expected to produce a well-crafted research proposal as part of a culminating experience.

COMS 203. Qualitative Research Methods in Communication Studies. 3 Units

Term Typically Offered: Fall, Spring

Introduction to advanced qualitative research methods. Students will critically review and analyze qualitative research, learn how to collect and analyze qualitative data, complete a qualitative research project about communication phenomena, and respond to the research projects of peers.

COMS 204. Rhetorical Criticism. 3 Units

Term Typically Offered: Fall, Spring

Intensive examination of the methods used by rhetorical critics to define, explicate, and understand both how meaning occurs in texts as well as the scope and mechanisms of meaning that influence public life. A major critical paper is prepared by each student.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term Typically Offered</th>
<th>Units</th>
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<tbody>
<tr>
<td>COMS 206</td>
<td>Organizational Communication.</td>
<td>Fall, Spring</td>
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<td></td>
<td>This course explores the foundations, research, and theories of organizational communication. Students examine and critique foundational theories and concepts in organizational research, and explore contemporary research topics. Students are expected to produce a well-crafted research project as part of a culminating experience.</td>
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<tr>
<td>COMS 207</td>
<td>Relational Communication.</td>
<td>Fall, Spring</td>
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<td>This seminar explores communication concepts, theories, and methods used to understand a broad array of relationship types. Relational communication within interpersonal, professional, romantic, family, and friendship interactions will be investigated. Includes an exploration of germinal and current qualitative, qualitative, and critical research regarding relational communication. As a part of the culminating experience, students will develop a research project examining a relational communication topic of their choice (e.g., relationship stages, support, conflict, social networks, and competence).</td>
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<tr>
<td>COMS 208</td>
<td>International Communication.</td>
<td>Fall, Spring</td>
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<td>This course uses qualitative (hermeneutic, ethnographic, discourse analysis) and quantitative methods to critically explore the infrastructure that allows for the movement of mediated messages across national boundaries, and the cultural, sociopolitical, and geopolitical effects of that transmission. Topics include news and entertainment flow, media systems and philosophies, cultural dependency and imperialism, the new world information order, communication development, and the role of racial, ethnic, gender, and national identity in an increasingly globalized mediasphere.</td>
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<td>COMS 209</td>
<td>Social Movements.</td>
<td>Fall, Spring</td>
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<td>This course is devoted to the rhetorical study of genre and social movements. Students will use a historical lens to examine how genre develops into societal change. Students will develop papers to explicate the rhetorical dimensions of areas of social change.</td>
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<tr>
<td>COMS 210</td>
<td>Media Effects.</td>
<td>Fall, Spring</td>
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<td>Concentrated survey of mass media and an analysis of theories of media uses and effects. Students are required to conduct library research on a specific media-related topic and to present their findings orally.</td>
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<tr>
<td>COMS 211</td>
<td>Media and Culture.</td>
<td>Fall, Spring</td>
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<td>Introduction to the major approaches and concepts that are central to the study of the intersection(s) between media and culture. Students investigate the social structures of media industries (technological, philosophical, aesthetic, economic, political, etc.) and their cultural products (media artifacts, created of image and sound), while also considering the historical and theoretical framework necessary for understanding this critical space.</td>
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<tr>
<td>COMS 212</td>
<td>Communication and Leadership.</td>
<td>Fall, Spring</td>
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<td>This seminar explores the concept of leadership including current theory and research on the communicative aspects of leadership in a variety of contexts. Students will review a wide array of multidisciplinary scholarship using various methodologies through which leadership has been viewed. Leadership communication within organizations, small groups, and interpersonal settings will be explored. Students will develop a research project on a leadership topic of their choosing.</td>
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<tr>
<td>COMS 213</td>
<td>Rhetorical Theory.</td>
<td>Fall, Spring</td>
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<td>Intensive examination of the development and current state of a variety of theoretical outlooks that inform rhetorical criticism. Relationship of theory and method is discussed.</td>
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<tr>
<td>COMS 214</td>
<td>Health Communication.</td>
<td>Fall, Spring</td>
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<td>Rigorous survey of how health messages impact individuals, communities, and mass audiences. The course includes an analysis of health communication theories, an overview of how health communication plays a role in individual, social, and macro-levels of society, and an evaluation of intentional and unintentional media effects on health beliefs, attitudes, and behaviors.</td>
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<tr>
<td>COMS 215</td>
<td>Political Communication.</td>
<td>Fall, Spring</td>
<td>3</td>
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<td>Examines the intersection of politics and mass communication in the United States. Topics will include normative theory of journalism; agenda-setting, framing, and priming; advertising; the sociology of news; war (including terrorism) and media; infotainment; media bias; hegemony theory; and the internet and politics.</td>
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<tr>
<td>COMS 216</td>
<td>Intercultural Communication.</td>
<td>Fall, Spring</td>
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<td>This course introduces various theories, perspectives, and approaches to the study of intercultural communication to help understand the complex nature of intercultural communication research. The course considers intercultural communication in various contexts, such as a workplace, healthcare, media, tourism, and education.</td>
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<tr>
<td>COMS 217</td>
<td>Applied Organizational Communication.</td>
<td>Fall, Spring</td>
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<td>This course asks students to consider the relationship between theory and practice in organizational communication research. Students will critically review relevant literature regarding applied organizational communication research. Students will apply organizational communication concepts, theories, and methods to their analysis of communication in organizations to craft a theoretically grounded, practically relevant study.</td>
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<tr>
<td>COMS 218</td>
<td>Conflict Management.</td>
<td>Fall, Spring</td>
<td>3</td>
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<td>Review of theory and research regarding the role of communication in conflict management. The course considers conflict at interpersonal, group, organizational, and cultural levels.</td>
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</tbody>
</table>
COMS 221. Instructional Communication Theory. 3 Units
Term Typically Offered: Fall, Spring
Survey of dominant theories of instructional communication. Students read, study and critique prevailing bodies of literature which have a bearing on the study and practice of instructional communication. Theories are used to help students reflect on their own experiences as teachers and students and to generate new ideas for research in instructional communication.

COMS 222. Instructional Communication Practicum. 3 Units
Term Typically Offered: Fall, Spring
Examination of communication theory and research in instructional or training contexts. Designed for beginning teachers or organizational trainers. Centers on those communication principles which contribute to greater student/client learning and satisfaction. Emphasis on the development and implementation of instructional communication packages for adult learners.

COMS 228. Corporate Advocacy and Public Policy. 3 Units
Term Typically Offered: Fall, Spring
Explores “corporate advocacy” as a kind of rhetorical, persuasive transaction between Corporate America and those in its environment. Seeks to understand corporate America’s role in the “policy process” (broadly defined), by analyzing the constituted authority for policy formation, the actual institutions involved in such formation, the interaction between/among these centers of power, the difference between authority and influence between/among these centers of power and influence, and how corporate America uses rhetorical messages to enhance various goals.

COMS 230. Computer-Mediated Communication. 3 Units
Term Typically Offered: Fall, Spring
Instruction and analysis of human and social Computer-Mediated Communications. Covers from how digital media affects representation and narrative to research on current uses of the Internet and the theoretical frameworks applied to summarize it. Includes a component of Computer Literacy that will help students understand Computer-Mediated Communication and use online collaborative tools efficiently. No previous computer knowledge is required.

COMS 285. Colloquium for Teaching Communication Studies. 1 Unit
Term Typically Offered: Fall, Spring
This colloquium is designed to facilitate the development, refinement, and maintenance of effective pedagogical methods and strategies for teaching communication studies courses. Strongly encouraged for student teachers across all disciplines.
Note: May be repeated up to three times with permission of instructor.

COMS 295. Apprenticeship in Communication Studies. 1 - 3 Units
Term Typically Offered: Fall, Spring
Directed experience in research or teaching using an apprenticeship model. Students will work with faculty members to assist with teaching or research. Faculty and Graduate Committee approval required prior to enrollment.
Note: Faculty and Graduate Committee approval required prior to enrollment.
Credit/No Credit

COMS 296A. Communication Research Methods. 1 Unit
Term Typically Offered: Fall, Spring
This one-unit module provides an in-depth look at a particular communication research method or data analysis technique. Content varies.
Note: 1 unit, repeatable.

COMS 296B. Communication Topics. 1 Unit
Term Typically Offered: Fall, Spring
This one-unit module provides an in-depth look at a particular communication research topic or theory. Content varies.
Note: Course may be repeated so long as the topic is different.

COMS 297. Directed Study and Comprehensive Examination. 1 - 3 Units
Prerequisite(s): Must be advanced to candidacy.
Term Typically Offered: Fall, Spring
Structured and supervised reading program for MA candidates preparing for comprehensive examinations. Should be taken after completion of all other requirements for the degree. Credit given upon successful completion of comprehensive examinations. Examining committee determines the number of units to be credited.
Note: Open to students who have been advanced to candidacy and have secured permission of the chair of their examining committee and the Graduate Coordinator.
Credit/No Credit

COMS 298. Colloquium In Communication. 3 Units
Term Typically Offered: Fall, Spring
A seminar on a communication topic of contemporary concern. Topic may change from semester to semester. May be taken for credit more than once, provided topic is not repeated.

COMS 299. Independent Study. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading open to students wishing to attempt independent work and research. Faculty and Graduate Committee approval required the semester prior to enrollment.
Credit/No Credit

COMS 500. Culminating Experience. 3 - 6 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis or project committee.
Term Typically Offered: Fall, Spring
Completion of a thesis or project approved for the Master’s degree. Thesis or project prospectus committees determine the number of units to be credited.

BA in Communication Studies (General Communication)
Units Required for Major: 39
Total units required for BA: 120

Program Description
Communication Studies is a broad-based discipline concerned with the exchange of messages in interpersonal and mediated situations and with the impact of such exchanges on society. Courses focus on
understanding the communication process and developing skills to communicate effectively. The Department offers a wide range of courses in interpersonal, group, and organizational communication, rhetorical theory and criticism, public relations, mass communication, research methodologies, and digital media (video or multimedia).

This concentration is designed to:
- improve student awareness, understanding, and practice of communication in professional and social interactions;
- enhance the traditional citizenship role in the democratic process; and
- train students in communication skills in preparation for professions within the public or private sectors of the economy.

Program Requirements

<table>
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<tr>
<th>Required Lower Division Core Courses (9 Units)</th>
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<tr>
<td>Code</td>
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<tr>
<td>COMS 2</td>
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<tr>
<td>COMS 8</td>
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<td>COMS/JOUR 55</td>
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Required Upper Division Core Courses (9 Units)

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>COMS 100A</td>
<td>Survey of Communication Studies</td>
<td>3</td>
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<tr>
<td>COMS 100B</td>
<td>Rhetoric and Social Influence ²</td>
<td>3</td>
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<tr>
<td>COMS 100C</td>
<td>Introduction to Scientific Methods in Communication Research</td>
<td>3</td>
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</table>

Research Methods (3 Units)

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>COMS 164</td>
<td>Visual Communication</td>
<td>3</td>
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<tr>
<td>COMS 165</td>
<td>Communication and Religion</td>
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<tr>
<td>COMS 168</td>
<td>Approaches to Rhetorical Criticism</td>
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<tr>
<td>COMS 170</td>
<td>Data Analysis in Communication Research</td>
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<tr>
<td>COMS 171</td>
<td>Survey Methods in Communication Research</td>
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<tr>
<td>COMS 172</td>
<td>Content Analysis</td>
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</tbody>
</table>

Theory and Seminar Pair (6 Units)

Select one of the following pairs: 6

<table>
<thead>
<tr>
<th>Intercultural Communication</th>
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<tbody>
<tr>
<td>COMS 116</td>
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<td>COMS 188</td>
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<tr>
<th>Interpersonal Communication</th>
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<tbody>
<tr>
<td>COMS 143</td>
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<td>COMS 182</td>
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<tr>
<th>Film as Communication</th>
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<tr>
<td>COMS 142</td>
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<td>COMS 192</td>
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<tr>
<th>Mass Communication</th>
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<tbody>
<tr>
<td>COMS 150</td>
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<tr>
<td>COMS 183</td>
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</table>

New Media

| COMS 150 | Mass Communication Theories and Effects | 3     |
| COMS 191 | New Media and Society                  |       |

Organizational Communication

| COMS 145 | Organizational Communication            |       |
| COMS 180 | Senior Seminar in Organizational Communication | |

Rhetoric and Social Influence

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 167</td>
<td>Systems and Theories of Rhetoric</td>
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<tr>
<td>COMS 169</td>
<td>Television Criticism</td>
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</table>

Small Group Communication

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>COMS 105</td>
<td>Communication in Small Groups</td>
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<tr>
<td>COMS 181</td>
<td>Senior Seminar in Small Group Communication</td>
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</tbody>
</table>

Upper Division Electives (12 Units)

Select four approved courses ² 12

Total Units 39

¹ Course also satisfies General Education (GE)/Graduation Requirement.
² Select any four COMS and/or JOUR upper division courses numbered 100 or above in consultation with your major advisor.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
</table>

Area A: Basic Subjects (3-6 Units)

| A1 - Oral Communication ³       | 0     |
| A2 - Written Communication     | 3     |
| A3 - Critical Thinking ³       | 0     |

Area B: Physical Universe and Its Life Forms (13 Units)

| B1 - Physical Science          | 3     |
| B2 - Life Forms                | 3     |
| B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) | 1 |
| B4 - Math Concepts             | 3     |
| B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. | 3 |

Area C: Arts and Humanities (12 Units)

| C1 - Arts                     | 3     |
| C2 - Humanities               | 3     |
| C1/C2 - Area C Course         | 3     |
| C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. | 3 |

Area D: The Individual and Society (9 Units)

| Area D Course                 | 3     |
| Area D Course - Take upper-division course to complete Area & upper division requirements. | 3 |

Area E: Understanding Personal Development (3 Units)

| Area E Course                 | 3     |

Area F: Ethnic Studies (3 Units)

| Area F Course                 | 3     |

Total Units 43-46

¹ To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).
² There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
Graduation Requirements 1

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (6 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
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<tr>
<td></td>
<td>Writing Intensive (WI) 2</td>
<td>0</td>
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<td></td>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
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<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Proficiency Requirement 3</td>
<td>6</td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement

3 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."
The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

BA in Public Relations

The Public Relations degree, developed from the Commission on Public Relations Education recommendations, is designed to prepare students to assume professional entry level roles in the practice of public relations; to help students understand the integration of public relations and marketing; prepare students to compose, develop, and analyze print and broadcast messages; to help students to develop demonstrable competencies in writing, analyzing, problem-solving, and critical thinking; to provide opportunities for testing public relations theory and practice, not only in the classroom, but in the field as well; and to develop relationships with local public relations professionals as well as with community organizations.

The PR degree at Sacramento State emphasizes research, writing and editing focused on the theories and methods for managing the media image of a business, organization, or individual. The program builds understanding of the communication process with stakeholders, constituencies, audiences, and the general public to prepare individuals to function as public relations assistants, technicians, and managers. Upon completion of the program, graduates are prepared to enter a variety of public relations careers in media relations; promotion and advertising; marketing; message/image design; image management and crisis communication; special event management; community relations; public affairs/government relations; and internal communications.

Students gain extra-curricular experiences via a robust internship program involving dozens of public and private companies and organizations across California and the nation, as well as via involvement in a large, active and award-winning Public Relations Student Society of American (PRSSA) chapter.

Prior to acceptance as a Communication Studies major, students must complete a pre-major consisting of all required lower division courses plus the upper division survey course (COMS 100A) and upper division research methodology course (COMS 100C). Students must successfully complete each pre-major course with a grade of "C-" or better. Students with a Sacramento State grade point average of 2.3 or better may request early admission to the major.

- Majors must complete each core course and each option core course with a grade of "C-" or better.
- Not more than 6 units of debate, internship and/or individual study (see the following) can be applied to the major requirements.
- Majors are urged to take COMS 2 (https://catalog.csus.edu/search/?P=COMS%202), Argumentation (or transfer equivalent) to fulfill their critical thinking requirement.
- Communication Studies courses may only be repeated once for a grade change. Students who fail to achieve at least a "C-" in two attempts in a core course will be disqualified in majoring in Communication Studies.
- One project or paper from each capstone course will be reviewed by selected faculty for the purpose of departmental assessment.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Required Lower Division Core Courses (13 Units)</td>
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<tr>
<td></td>
<td>COMS 2 Argumentation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COMS 8 Interpersonal Communication Skills</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COMS 55 Media Communication and Society</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>JOUR 20 Style For Media Writers</td>
<td>4</td>
</tr>
<tr>
<td>&amp; JOUR 30 News Writing</td>
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</tr>
<tr>
<td></td>
<td>Required Upper Division Core Courses (9 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>COMS 100A Survey of Communication Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COMS 100B Rhetoric and Social Influence</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COMS 100C Introduction to Scientific Methods in Communication Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Major Courses (21 Units)

- COMS 106 Digital Media Creation - An Introduction 3
- COMS 118 Survey of Public Relations 3
- COMS 123 Writing for Public Relations 3
- COMS 158 Public Relations Planning and Management 3
- COMS 170 Data Analysis in Communication Research 3
- or COMS 171 Survey Methods in Communication Research 3
- COMS 187 Issue Management and Case Studies in Public Relations 3
- MKTG 101 Principles Of Marketing 3

Electives (5 Units)

Any upper division (100 or above) Communication Studies courses totaling at least five units.

General Education Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td></td>
<td>Area A: Basic Subjects (6 Units)</td>
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<tr>
<td></td>
<td>A1 - Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A2 - Written Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A3 - Critical Thinking 2</td>
<td>0</td>
</tr>
</tbody>
</table>
MA in Communication Studies

Total Units required for the MA: 30

Program Description

A Master's degree can lead to doctoral or other professional education, or to advanced positions in business, public service, or government. The graduate program in Communication Studies is guided by two interrelated goals. First, that each student has the opportunity to study and conduct original communication research consistent with individual interests and abilities. Second, each student develops and follows a coherent, rigorous plan of study within the field of communication. Accordingly, a structured advising procedure has been established in the Department to help accomplish these two goals (see "The Graduate Document," available from the Department, for details). As an integral part of a plan of study, each student will designate a series of courses to be completed for their degree with the assistance of their advisor and the approval of the Graduate Committee. A statement outlining the logic of the chosen courses will be required and will be reviewed by the Graduate Committee. Areas of faculty expertise include (but are not limited to):

- Mediated Communication
- Organizational Communication
- Instructional Communication
- Rhetoric and Criticism
- Political Communication
- Intercultural/International Communication
- Relational Communication

As mentioned above, this program, culminating in the Master of Arts in Communication Studies, is designed for the student who subsequently will pursue a doctoral degree or a professional career. The program is NOT designed for students who wish to train in production or presentational skills which are taught at the undergraduate level in the Sacramento State Communication Studies Department.

Admission Requirements

Admission as a classified graduate student in Communication Studies is based on the assessment of individual credentials by the Graduate Committee, but requires at least:

- a 3.0 overall GPA or 3.25 GPA in the last 60 units completed;
- a grade of "B-" or better in a methods course such as qualitative, quantitative, or rhetorical methods. Prospective students can still apply without methods training, but may be asked to take an advanced undergraduate methods course prior to enrolling in graduate level methods.
- a clearly written statement of purpose for pursuing this particular MA degree. This statement is part of the application to the graduate program and should explain the applicant's career and academic goals, specifying how the program will help to accomplish these...
goals, and explaining the applicant's motivation for pursuing those goals;
- a clearly written personal statement reflecting why the applicant wishes to pursue graduate education and how they have prepared, as well as any personal contextual factors that would help the graduate committee assess the application package;
- three letters of recommendation indicating the applicant's abilities and potential for completing graduate work successfully. These letters should assess at least the student's abilities to perform well in academic courses; to conduct research independently; to express ideas well in writing and orally; and to think critically, analytically, and creatively;
- an online intake form available on the department website that includes a short Analytic Essay allowing applicants to demonstrate their ability to analyze a communication problem and craft an argument;
- at least one substantive example of writing that indicates research, analytical, and/or creative abilities;
- an earned baccalaureate degree, and
- (Optional) Graduate Record Exam (GRE) verbal, quantitative, and analytical scores.

**Admission Procedures**

Applicants are strongly encouraged to apply several months prior to the semester first enrollment is sought and to consult the program website (https://www.csus.edu/college/arts-letters/communication-studies/graduate-study-communications.html) for detailed instructions on the above materials. All application materials must be received before any evaluation begins. Applicants must complete a separate university application by the posted application deadline date for the term applying. For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

A decision regarding admission will be mailed to the applicant.

**Minimum Units and Grade Requirement for the Degree**

Units required for the MA: 30

Minimum cumulative GPA: 3.0. No course with a grade lower than "B-" may apply towards the degree

**Advancement to Candidacy**

Near the completion of coursework each student must submit an Advancement to Candidacy form, with their major advisor and graduate coordinator's approval, to the Office of Graduate Studies. This procedure may begin upon satisfactory completion of the following:

- all deficiencies in admission requirements removed;
- all undergraduate course deficiencies, as noted as conditions on application response;
- the following with a grade "B-" or better;

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 200A</td>
<td>Intro to Graduate Study--Disciplinary History and Conventions</td>
<td>1</td>
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</tbody>
</table>

Select one of the following:

- COMS 201 Communication Theory 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 202</td>
<td>Quantitative Research Methods in Communication Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMS 203</td>
<td>Qualitative Research Methods in Communication Studies</td>
<td></td>
</tr>
<tr>
<td>COMS 204</td>
<td>Rhetorical Criticism (Rhetorical Criticism)</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**

8

- at least 50 percent of coursework toward the degree; and
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

At least 18 units must be 200-level courses. Students may take up to 6 units of courses numbered 150-198 (excluding 195), out-of-department, or independent study (COMS 295/299) courses to complete degree requirements. However, no more than 3 units of COMS courses numbered 150-198 (excluding 195) may count toward the minimum 30-unit requirement. Additionally, students may take up to 4 variable content 1-unit modules (e.g., COMS 296A, COMS 296B, COMS 285) to count toward the minimum 30-unit requirement. By University policy, courses completed to satisfy deficiencies or admission requirements are not counted toward the MA degree.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 200A</td>
<td>Intro To Graduate Studies–Paradigm and Methods</td>
<td>1</td>
</tr>
<tr>
<td>COMS 201</td>
<td>Communication Theory</td>
<td>3</td>
</tr>
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</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>COMS 202</td>
<td>Quantitative Research Methods in Communication Studies</td>
<td>3</td>
</tr>
<tr>
<td>COMS 203</td>
<td>Qualitative Research Methods in Communication Studies</td>
<td></td>
</tr>
<tr>
<td>COMS 204</td>
<td>Rhetorical Criticism (Rhetorical Criticism)</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**

8

- at least 50 percent of coursework toward the degree; and
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

At least 18 units must be 200-level courses. Students may take up to 6 units of courses numbered 150-198 (excluding 195), out-of-department, or independent study (COMS 295/299) courses to complete degree requirements. However, no more than 3 units of COMS courses numbered 150-198 (excluding 195) may count toward the minimum 30-unit requirement. Additionally, students may take up to 4 variable content 1-unit modules (e.g., COMS 296A, COMS 296B, COMS 285) to count toward the minimum 30-unit requirement. By University policy, courses completed to satisfy deficiencies or admission requirements are not counted toward the MA degree.

**Culminating Requirement**

Select one of the following:

- COMS 297 Directed Study and Comprehensive Examination (Plan C: Exam) 3
- COMS 500 Culminating Experience (Plan A: Thesis, Plan B: Projects) 2

**Total Units**

30
Select between 16 and 19 units of graduate courses with the assistance of your advisor. Be certain these Major Courses contain a specific focus or area of concentration that can be described and explained to the Graduate Committee. Courses may be grouped into a Major and Minor area of concentration if desired. Up to six units may be taken in a related department or accomplished via independent study (COMS 295/COMS 299), with advisor and Graduate Committee approval. 3 units of COMS undergraduate courses (150-199, excluding 195) may count toward the degree, with advisor and Graduate Committee approval. Additionally, students may take up to 4 variable content 1-unit modules (e.g., COMS 296A, COMS 296B, COMS 285) to count toward the minimum 30-unit requirement.

For students completing Plan A or B, no more than a total of 3 units of COMS 295 or COMS 299 may be applied to the 30-unit MA requirement. For students completing Plan C, this limit is increased to 6 units. Graduate Committee approval is required in the semester prior to enrollment for these units.

**Minor in Communication Studies**

**Total units required for Minor: 18, 12 of which must be upper division**

**Program Description**

Communication Studies is a broad-based discipline concerned with the exchange of messages in interpersonal and mediated situations and with the impact of such exchanges on society. Courses focus on understanding the communication process and developing skills to communicate effectively. The Department offers a wide range of courses in interpersonal, group, and organizational communication, rhetorical theory and criticism, public relations, mass communication and research methodologies.

**Notes:**

- Minor programs must be approved by a Department advisor.
- All 18 units in the Minor program must be Communication Studies courses.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 100A</td>
<td>Survey of Communication Studies</td>
<td>3</td>
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</tbody>
</table>

No more than a total of 3 units of the following can be applied to the Minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 110</td>
<td>Advanced Debate Workshop</td>
<td>1</td>
</tr>
<tr>
<td>COMS 111</td>
<td>Debate Research Practicum</td>
<td>3</td>
</tr>
<tr>
<td>COMS 195</td>
<td>Internship in Communication Studies</td>
<td>1 - 6</td>
</tr>
<tr>
<td>COMS 199</td>
<td>Special Problems</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

1. Grade of "C-" or better required

**Minor in Digital Communication and Information**

**Total units required for Minor: 18**

**Program Description**

Communication Studies is a broad-based discipline concerned with the exchange of messages in interpersonal and mediated situations and with the impact of such exchanges on society. Courses focus on understanding the communication process and developing skills to communicate effectively. The Department offers a wide range of courses in interpersonal, group, and organizational communication, rhetorical theory and criticism, public relations, mass communication and research methodologies.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 101</td>
<td>Information Management and Privacy</td>
<td>3</td>
</tr>
<tr>
<td>COMS 106</td>
<td>Digital Media Creation - An Introduction</td>
<td>3</td>
</tr>
<tr>
<td>COMS 117</td>
<td>Multimedia Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMS 140</td>
<td>Online Collaboration</td>
<td>3</td>
</tr>
<tr>
<td>COMS 190</td>
<td>Human Communication on the Internet</td>
<td>3</td>
</tr>
<tr>
<td>COMS 191</td>
<td>New Media and Society</td>
<td>3</td>
</tr>
</tbody>
</table>

**Film**

**Department of Communication Studies**

**Program Description**

The Film Program offers interdisciplinary coursework in the areas of film production, history, theory, criticism, and writing. The Film major aims at developing a deeper understanding of the art and practice of film, its complex components, and the artists whose vision have inspired generations of filmmakers. All students are required to take a common core that provides a foundation for film criticism and production. After completing the core, students select either the film studies or film production track. Students are supervised by the Film Coordinator.

**Degree Programs**

BA in Film (Digital Film/Video Production) (p. 169)
BA in Film (Film Studies) (p. 170)
Minor in Film Studies (p. 172)

**Career Possibilities**

Videographer · Cinematographer · Production Coordinator · Production Assistant · Lighting Designer · Gaffer · Grip · Film/Video Director · Production Sound Mixer · Sound Editor · Screenwriter · Script Supervisor · Video Editor · Effects Editor · Independent Filmmaker · Film Critic

**Contact Information**

Dan Janos, Film Coordinator
Mendocino Hall 5027
(916) 278-6415
Film Program Website (http://www.al.csus.edu/film/)

Faculty
ANKER, ANDREW
BUSS, STEVE
BUCKMAN, ALYSON
CRAFT, GEORGE
DONATH, JACKIE
FOSS-SNOWDEN, MICHELE
GEIGER, JASON
JANOS, DAN
KASIC, KATHY
POMO, ROBERTO
RICE, DOUG
STARK, JENNY
WILLIAMS, BRETT (SAMUEL)

FILM 20A. Audio Production. 2 Units
Corequisite(s): FILM 20B.
Term Typically Offered: Fall, Spring
Introduction to the theory and practice of audio production in radio, television, film and recording applications.
Cross-listed: COMS 20A.

FILM 20B. Audio Production Lab. 1 Unit
Corequisite(s): FILM 20A.
Term Typically Offered: Fall, Spring
Experience in audio console operation, microphone selection and use, and audio recording in radio, television, film and recording applications.
Cross-listed: COMS 20B.

FILM 27A. Digital Film/Video Production. 2 Units
Corequisite(s): FILM 27B.
Term Typically Offered: Fall, Spring
Introduction to the techniques and aesthetics of digital film making. The course covers camera technique and cinematography.
Cross-listed: COMS 27A.

FILM 27B. Digital Film/Video Production Lab. 1 Unit
Corequisite(s): FILM 27A.
Term Typically Offered: Fall, Spring
Introduction to the techniques and aesthetics of digital film making. The course covers camera angles, basic lighting, framing, and non-linear editing techniques.
Cross-listed: COMS 27B.

FILM 97. Introduction to Film Studies. 3 Units
Term Typically Offered: Fall, Spring
Examines cinematic techniques, styles, vocabulary, and discourses. Introduces different ways for writing about films and for working with a variety of cinematic terms. Film form and style will be studied by examining specific scenes in films from different genres, nations, and directors. Film used throughout the course will be selected from different historical periods.
Cross-listed: ENGL 97.

FILM 98. Introduction to Film Discourse and Analysis. 4 Units
Term Typically Offered: Fall, Spring
An introduction to cinematic vocabulary, film history, and film analysis. Through this introduction, students will learn how to write about and analyze film. The course prepares students for upper division work in film studies and cultural analysis. The course includes a significant research and/or creative project.
Cross-listed: ENGL 98

FILM 105. Film Theory and Criticism. 4 Units
Term Typically Offered: Fall, Spring
Survey of film theory focusing on Auteurism, Class, Expressionism, Formalism, Genre, Gender, Narratology, Neorealism, Phenomenology, Post-Structuralism, Psychoanalysis, Realism, Semiology, Structuralism, and Third Cinema.
Cross-listed: ENGL 105.

FILM 121. Media Aesthetics. 3 Units
Term Typically Offered: Fall, Spring
Overview and analysis of the primary aesthetic tools used to create messages in video and film. The basic properties of light, color, area, space, shape, sound, time and motion are defined and discussed as they relate to media production. Introduces students to the concepts and vocabulary necessary for effectively conceiving, producing or criticizing mediated messages. Designed primarily for students with interest in digital media. Provides a foundation for students working in media criticism.
Cross-listed: COMS 121.

FILM 124. Writing Scripts for Film/Video. 3 Units
Prerequisite(s): ENGL 1A and ENGL 20.
Term Typically Offered: Fall, Spring
Developing narratives, documentaries, educational, promotional, and experimental short screenplays. Students are expected to develop a writing style and master screenwriting and audio/visual scripting formats. Scripts will be developed to be produced in advanced production courses: COMS/FILM 128 and COMS/FILM 185.
Cross-listed: COMS 124.
FILM 124F. Avant-Garde Film. 3 Units
Prerequisite(s): ENGL 97 or PHOT 102.
Term Typically Offered: Spring only
A survey of experimental films from the beginning of the cinema in the 1890s through today’s avant garde. The course will emphasise film making as a means of personal, artistic expression and will pay particular attention to those aspects of cinema that are typically ignored or marginalized in mainstream Hollywood movies. Films we will study include those by: Melies, Porter, Richter, Leger, Cornell, Deren, Brakhage and Gehr.
Cross-listed: INTD 124F.

FILM 128. Intermediate Production. 3 Units
Prerequisite(s): FILM/COMS 20AB with a grade of "C" or better. FILM/COMS 27AB with a grade of "C" or better.
Term Typically Offered: Fall, Spring
Continued exploration of the digital filmmaking process through lecture, lab, and practical application. Project-based learning emphasizes working as a crew and the three distinct stages of production: prep, production, and post. Students write, produce, direct and edit original content to bring projects to fruition.
Cross-listed: COMS 128.

FILM 129. Film and Video Production Management. 3 Units
Term Typically Offered: Spring only
Management and administration of the preproduction and production process. Course to include script breakdown, budgeting, scheduling, and other preproduction and production management skills needed for film and video production. Special attention on the history, development and current practices of the Production Manager.
Cross-listed: COMS 129.

FILM 130. Staging and Lighting Digital Video. 3 Units
Prerequisite(s): FILM 20A, FILM 20B, FILM 27A and FILM 27B each with a grade of "B-" or better.
Term Typically Offered: Fall, Spring
Introduction to the aesthetics, concepts and techniques used to control lighting in digital video productions. Aspects of staging, blocking and composition in the context of studio and location lighting.
Cross-listed: COMS 130.

FILM 141. Theory of Film/Video Editing. 3 Units
Prerequisite(s): COMS/FILM 27A and COMS/FILM 27B with final posted grade of C or better.
Term Typically Offered: Fall, Spring
Study of history and theory of film and video editing. Many films are viewed and discussed, examining how editing theory is put into practice.
Cross-listed: COMS 141.

FILM 155. Contemporary World Cinema. 3 Units
Term Typically Offered: Fall, Spring
A historical review of the development of major international film styles and themes. Theoretical and critical concepts derived from this study of international film and then used as the basis to analyze contemporary films of South America, Europe, India, East Asia, Africa and the Middle East. Emphasis is on both the development of formal film techniques and a comparison of the unique cultural values that shape the film narrative style.
Cross Listed: THEA 155; only one may be counted for credit.

FILM 158. Senior Practicum in Video Production. 3 Units
Prerequisite(s): COMS/FILM 124 with a final posted grade of C or better; COMS/FILM 128 with a final posted grade of C or better.
Term Typically Offered: Fall, Spring
Assignments in various phases of video production including creative use of camera, sound and lighting, editing, production design, production planning/management, and directing.
Cross-listed: COMS 185.

FILM 192. Senior Seminar in Film. 3 Units
Prerequisite(s): Completion of the Film Studies upper and lower division core or COMS 142, and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Spring only
Research seminar that provides an in-depth investigation of film as an art form, a medium of mass communication and a means of personal expression. Subject will vary according to instructor.
Cross-listed: COMS 192.

BA in Film (Digital Film/Video Production)

Units required for Major: 47
Total units required for BA: 120

Program Description
The Film Program offers interdisciplinary coursework in the areas of film production, history, theory, criticism, and writing. The Film major aims at developing a deeper understanding of the art and practice of film, its complex components, and the artists whose vision have inspired generations of filmmakers. All students are required to take a common core or COMS 142, and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>FILM 20A</td>
<td>Audio Production</td>
<td>2</td>
</tr>
<tr>
<td>FILM 20B</td>
<td>Audio Production Lab</td>
<td>1</td>
</tr>
<tr>
<td>FILM 27A</td>
<td>Digital Film/Video Production</td>
<td>2</td>
</tr>
<tr>
<td>FILM 27B</td>
<td>Digital Film/Video Production Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 98 or ENGL 97</td>
<td>Introduction to Film Discourse and Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 97</td>
<td>Introduction to Film Studies</td>
<td>4</td>
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Upper Division Core Courses (19 Units)

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM/COMS 121</td>
<td>Media Aesthetics</td>
<td>3</td>
</tr>
</tbody>
</table>
BA in Film (Film Studies)

Total units required for Major: 47
Total units required for BA: 120
Program Description

The Film Program offers interdisciplinary coursework in the areas of film production, history, theory, criticism, and writing. The Film major aims at developing a deeper understanding of the art and practice of film, its complex components, and the artists whose vision have inspired generations of filmmakers. All students are required to take a common core that provides a foundation for film criticism and production. After completing the core, students select a concentration in Film Production or Cinema Studies. Students are supervised by the Film Coordinator.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Division Core Courses (10 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FILM 20A</td>
<td>Audio Production</td>
<td>2</td>
</tr>
<tr>
<td>FILM 20B</td>
<td>Audio Production Lab</td>
<td>1</td>
</tr>
<tr>
<td>FILM 27A</td>
<td>Digital Film/Video Production</td>
<td>2</td>
</tr>
<tr>
<td>FILM 27B</td>
<td>Digital Film/Video Production Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 98</td>
<td>Introduction to Film Discourse and Analysis</td>
<td>4</td>
</tr>
<tr>
<td>or ENGL 97</td>
<td>Introduction to Film Studies</td>
<td></td>
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<tr>
<td>Upper Division Core Courses (19 Units)</td>
<td></td>
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<tr>
<td>FILM/COMS 121</td>
<td>Media Aesthetics</td>
<td>3</td>
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<tr>
<td>FILM 128</td>
<td>Intermediate Production</td>
<td>3</td>
</tr>
<tr>
<td>COMS 133</td>
<td>The Documentary Film</td>
<td>3</td>
</tr>
<tr>
<td>THEA/FILM 155</td>
<td>Contemporary World Cinema</td>
<td>3</td>
</tr>
<tr>
<td>HIST/HRS 169</td>
<td>Hollywood and America¹</td>
<td>3</td>
</tr>
<tr>
<td>ENGL/FILM 105</td>
<td>Film Theory and Criticism</td>
<td>4</td>
</tr>
<tr>
<td>Option Requirements (18 Units)</td>
<td></td>
<td></td>
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<tr>
<td>Select one of the options below:</td>
<td>18</td>
<td></td>
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<tr>
<td>Option A: Film Production</td>
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<tr>
<td>Option B: Cinema Studies</td>
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<tr>
<td>Total Units</td>
<td>47</td>
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Option B: Cinema Studies (18 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>Concentration Requirements (18 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMS 142</td>
<td>Film As Communication</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
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</tr>
<tr>
<td>COMS 114</td>
<td>Communication and American Culture</td>
<td></td>
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<tr>
<td>COMS/JOUR 120</td>
<td>History of the Media</td>
<td></td>
</tr>
<tr>
<td>COMS 127</td>
<td>Producing and Directing for Television</td>
<td></td>
</tr>
<tr>
<td>COMS 157/ART 147</td>
<td>Video Art</td>
<td></td>
</tr>
<tr>
<td>COMS 169</td>
<td>Television Criticism</td>
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</table>

Capstone Course

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>FILM/COMS 192</td>
<td>Senior Seminar in Film</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Select 6 units in consultation with major advisor

Total Units 18

General Education Requirements ¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
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</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
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<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
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<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
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<tr>
<td>Area B: Physical Universe and Its Life Forms (13 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
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<tr>
<td>B4 - Math Concepts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td>Area C: Arts and Humanities (9 Units)</td>
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<tr>
<td>C1 - Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td>3</td>
<td></td>
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<tr>
<td>C1/C2 - Area C Course</td>
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<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td>Area D: The Individual and Society (9 Units)</td>
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<tr>
<td>Area D Course</td>
<td>3</td>
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<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
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<tr>
<td>Area E Course</td>
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<td></td>
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<tr>
<td>Area F: Ethnic Studies (3 Units)</td>
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<tr>
<td>Area F Course</td>
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</tbody>
</table>

Total Units 46

¹ To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

² Required in Major; also satisfies GE.

Graduation Requirements ¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
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<td></td>
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<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
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<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
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<td></td>
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<tr>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
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<td></td>
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<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
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<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement ²</td>
<td>6</td>
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</tr>
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</table>

Total Units 18
Minor in Film

Units required for Minor: 18

Program Description
The Film Studies minor emphasizes coursework and independent study in the areas of film appreciation, history, theory, and criticism and writing within the context of a liberal arts tradition. The Film Studies curriculum includes upper division classes offered by the Departments of Art, Communication Studies, English, Foreign Languages, History, Humanities and Religious Studies, and Theatre and Dance. The Film Studies minor is supervised by the Film Studies Coordinator.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 5</td>
<td>Aesthetics of Theatre and Film</td>
<td>3</td>
</tr>
<tr>
<td>FILM/ENGL 105</td>
<td>Film Theory and Criticism</td>
<td>3</td>
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<tr>
<td>HRS 180</td>
<td>The Film</td>
<td>3</td>
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<tr>
<td>Select 9-12 units from the following electives:</td>
<td>9-12</td>
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<tr>
<td>ART 191</td>
<td>Film as an Art Form</td>
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<tr>
<td>ASIA/HIST 140</td>
<td>Modern East Asian Cinema</td>
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<tr>
<td>FILM/COMS 121</td>
<td>Media Aesthetics</td>
<td></td>
</tr>
<tr>
<td>FILM/COMS 129</td>
<td>Film and Video Production Management</td>
<td></td>
</tr>
<tr>
<td>COMS 142</td>
<td>Film As Communication</td>
<td></td>
</tr>
<tr>
<td>ENGL 130F</td>
<td>Writing For Television</td>
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<tr>
<td>ENGL 191A</td>
<td>Masterpieces of the Cinema</td>
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<tr>
<td>ENGL 197G</td>
<td>Films of Great Directors</td>
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<tr>
<td>ENGL 197K</td>
<td>Fiction Into Film</td>
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<tr>
<td>ENGL 197M</td>
<td>Recent American Films</td>
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<tr>
<td>HIST/HRS 169</td>
<td>Hollywood and America</td>
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<tr>
<td>HRS 181</td>
<td>Contemporary Issues in Film</td>
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<tr>
<td>HRS 183</td>
<td>World Religions and Cultures in Cinema</td>
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<tr>
<td>HRS 185</td>
<td>Women in Film and American Culture</td>
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<tr>
<td>INTD 124E</td>
<td>Film/Design</td>
<td></td>
</tr>
<tr>
<td>THEA 106</td>
<td>Latin American Film</td>
<td></td>
</tr>
<tr>
<td>THEA 175</td>
<td>Multicultural Perspectives in American Film</td>
<td>18-21</td>
</tr>
</tbody>
</table>

Total Units

Journalism

Department of Communication Studies

Program Description
Sacramento State's program emphasizes research, writing and editing for interactive media, and other courses necessary to prepare students for success in media-related jobs; it also includes courses that critically examine media as an institution.

A student at Sacramento State may major either in Journalism or in Political Science-Journalism. A minor in Journalism is valuable to the student entering a career field in which journalism plays a role.

Journalism majors write The State Hornet (https://statehornet.com/), a weekly print newspaper and daily multimedia publication.

A journalism degree prepares students for a variety of careers and graduate studies. Graduates work as journalists in a diverse range of media, as public relations representatives, and as communications staff for government agencies, non-profits, and other organizations.

Degree Programs
BA in Journalism (p. 176)
BA in Political Science/Journalism (p. 175)

Minor in Journalism (p. 178)

Special Features

- The location of Sacramento State in the state's capital provides uncommon advantages for the student interested in journalism. Many students take internships with state agencies or news operations that provide both experience and opportunities unlikely to be found elsewhere.

- Sacramento State offers the only Political Science-Journalism degree program in the nation, tailored to take advantage of the Department's location at the hub of state politics. The Department has more than 100 internships available to upper-division journalism majors.

- One emphasis of the Journalism program is data reporting, a resonant and fast-growing skill valuable in news organizations nationwide.

- Journalism majors have the opportunity to take classes from both Department faculty and local journalists. The full-time faculty are practicing professionals who contribute regularly to publications on a freelance basis. Local professional journalists serve as part-time faculty and guest lecturers.

- Sacramento State students intern in the state Capitol and Washington, D.C. Many opportunities are available for Political Science-Journalism majors to do internships that meet their unique interests.

Career Possibilities
Reporter · Editor · Publisher · Public Relations Specialist · Legislative Assistant/Director · Technical Writer/Editor · Government Program Analyst · Broadcast Journalist · News Producer · Research specialist · Copywriter · Social Media Strategist · Media Entrepreneur and more.
Contact Information
Mark Ludwig, Department Chair
Katrina Roose, Administrative Support Coordinator II
Mendocino Hall 5014
(916) 278-6688
Department of Communication Studies Website (https://www.csus.edu/college/arts-letters/communication-studies/)

Faculty
DUGAN, MOLLY
GALLO, FERNANDO
LUDWIG, MARK
REESE, PHILLIP

JOUR 20.  Style For Media Writers. 1 Unit
Term Typically Offered: Fall, Spring
Intensive review of grammar, word use, spelling, and principles of clear, concise writing.
Credit/No Credit

JOUR 30.  News Writing. 3 Units
Corequisite(s): JOUR 20.
Term Typically Offered: Fall, Spring
Fundamentals of news gathering and news writing. Emphasis on language and style used in feature and news stories.
Note: Computer familiarity (MAC-OS) recommended.

JOUR 50.  Media Literacy and Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring
Introduction to reasoning skills useful to the journalism major and general education student alike in interpreting and judging information, entertainment and advertising in the mass media. Emphasis on how to assess the quality of news as information, and on how to think critically about the effects of mass-produced culture.

JOUR 55.  Media Communication and Society. 3 Units
Term Typically Offered: Fall, Spring
Introduction to the basic concepts of mass communication, including the effects, uses, and functions associated with the goods and services of mass media. Examination of the ways mass media combine with other institutions to affect the organization, design, and comprehension of communication messages, as well as political thought, cultural beliefs, and economic behavior.
Cross Listed: COMS 55; only one may be counted for credit.

JOUR 116.  Data Visualization. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Spring, Summer
Instruction in visualizing datasets using charts, graphs and maps. Students will use spreadsheets to analyze data, along with software and online applications to create data visualizations. Emphasis on visualizations for business, academia and journalism.

JOUR 120.  History Of The Media. 3 Units
Prerequisite(s): COMS 55/JOUR 55 or equivalent; may be taken concurrently with prerequisite.
Term Typically Offered: Fall, Spring
Examination of development of major media of mass communication in the U.S. and how the economics, content, regulation and audience use of the media have been affected by the way the media have evolved. Current issues and trends are discussed, as well as possible future development. Cross Listed: COMS 120; only one may be counted for credit.

JOUR 123.  Writing for Public Relations. 3 Units
Prerequisite(s): JOUR 30; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Term Typically Offered: Fall, Spring, Summer
Organization and operation of communication media; practice in publicity and public relations techniques. Emphasis on clear writing and correct public relations formats such as releases, PSAs, articles, and speeches.
Note: Computer familiarity (MAC-OS) recommended. Cross listed: COMS 123

JOUR 125.  Multimedia Storytelling. 3 Units
Prerequisite(s): JOUR 30
Term Typically Offered: Fall, Spring
Principles and techniques of reporting and writing news for radio, television, podcasts, social media, and other emerging media platforms. Field and laboratory experience, including basic multimedia story production.

JOUR 128.  News Editing. 3 Units
Prerequisite(s): JOUR 20, JOUR 30.
Term Typically Offered: Fall, Spring
Introduction to the role of the editor in contemporary news production. Instruction in story assigning and digital editing, headline/caption writing, photo/visual selection, identifying story treatments, and web tools including search engine optimization and audience analytics. Lab sessions include story/copy editing, fact-checking exercises, headline/caption writing, photo/visual selection, analysis and application of audience metrics in story assignments, and other editorial work.

JOUR 130A.  News Reporting I. 3 Units
Prerequisite(s): JOUR 20, JOUR 30.
Corequisite(s): JOUR 130B.
Term Typically Offered: Fall, Spring
Instruction and practice in journalistic research, interviewing, and reporting skills.
Note: Computer familiarity (MAC-OS) recommended.

JOUR 130B.  News Reporting II. 3 Units
Prerequisite(s): JOUR 30.
Corequisite(s): JOUR 130A.
Term Typically Offered: Fall, Spring
Practice in covering a news beat, producing news and feature stories on a weekly basis. Instruction includes reporting on local government.
JOUR 131. Data Journalism. 3 Units
Prerequisite(s): JOUR 30; may be taken concurrently.
Term Typically Offered: Fall, Spring

Instruction and practice in finding, analyzing, visualizing and using data for journalism.

JOUR 132. Digital Magazine. 3 Units
Prerequisite(s): JOUR 30 or instructor permission.
Term Typically Offered: Fall, Spring

Conceiving, reporting, and writing feature articles for magazines in print and online. In addition to improving writing skills, students will learn how to identify freelance opportunities, pitch stories, analyze published work, and produce articles for a digital magazine published by the class.

JOUR 134. War, Peace and the Mass Media. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring, Summer

Concerned with the relationship of mass media to war and the possibilities for peace, with emphasis on recent concepts of political communication. Cross Listed: GOVT 134; only one may be counted for credit.

JOUR 135. Public Affairs Reporting. 3 Units
Prerequisite(s): JOUR 20, JOUR 30, JOUR 130A, JOUR 130B; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Preparation and practice for covering California issues, with a focus on state government and investigative reporting techniques. Culminates with a final project.

JOUR 153. Journalism Law and Ethics. 3 Units
Term Typically Offered: Fall, Spring

Examines the laws, regulations, and ethical principles that govern print, broadcast, and electronic journalism in the U.S. The process by which laws and regulation are enacted and interpreted and the development of socially responsible journalistic practice are discussed. Cross Listed: COMS 153; only one may be counted for credit.

JOUR 158. Public Relations Planning and Management. 3 Units
Prerequisite(s): COMS 118 and JOUR 123 or COMS 123 with grade of "C-" or better.
Term Typically Offered: Fall, Spring

Application of theoretical concepts to the solution of problems for pre-selected non-profit and campus clients by forming small group PR agencies; completing needs assessments; profiling target and secondary audiences; developing and implementing a strategic public relations plan; producing targeted messages for media kits and other uses; developing and evaluating formative and summative evaluation plans; and making formal in-class presentations to peers, clients and invited PR professionals. Students will also learn how to negotiate contracts, maintain client relations, track work on projects and develop timelines and budgets. Cross Listed: COMS 158; only one may be counted for credit.

JOUR 172. Women in the Mass Media. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Examination of women's role in the mass media, with particular emphasis on news reporting and advertising. Includes discussion of women's role in media industries. Culminates in a final project.

JOUR 175. Minorities, Social Change and the Press. 3 Units
Term Typically Offered: Fall only

Examination of the relationship between historically underrepresented groups and the news media. Provides a critical analysis and discussion of the role played by the news media in racial, cultural, and social change in the U.S. and explores how the news media can create a more pluralistic society.

JOUR 193. The Media Business. 3 Units
Term Typically Offered: Fall, Spring

Examination of business models and concepts influencing the contemporary news media industry. Study the traditional financial structures of media publications, evaluate opportunities in media entrepreneurship and develop business plans for publications.

JOUR 194. Journalism Related Work Experience. 3 - 6 Units
Term Typically Offered: Fall, Spring

Supervised employment in a company or agency working on journalism-related assignments, arranged through the Department of Communication Studies and the Cooperative Education Program office. Requires preparation of application packet, completion of a 6 month full-time or part-time work assignment, and a written report. Note: Open only to upper division or graduate students with appropriate course preparation. Units MAY NOT be used to meet the Journalism major or minor. Consent of Communication Studies Department advisor required. No more than 12 units will count toward the degree.
Credit/No Credit

JOUR 195. Internship in Journalism. 1 - 6 Units
Term Typically Offered: Fall, Spring

Directed work experience through the internship program with public agencies or with journalistic publications, organizations or agencies. Supervision is provided by both the instructional staff and the cooperating agency. Note: Student must make arrangements with the internship coordinator upon admittance to the course. Limited to Journalism majors and minors and Government-Journalism majors. No more than six units of JOUR 195 may be counted toward the Journalism major.
Credit/No Credit

JOUR 196. Experimental Offerings in Journalism. 3 Units
Term Typically Offered: Fall, Spring

One time and new classes in journalism will be scheduled as needed. 2.0 - 3.0 units

JOUR 196S. Writing for Sports Media. 3 Units
Prerequisite(s): JOUR 30.
Term Typically Offered: Fall, Spring

Fundamentals of gathering, organizing, evaluating and writing sports information in accepted professional style across news media and media relations platforms.
JOUR 197. Journalism Laboratory. 3 Units
Term Typically Offered: Fall, Spring

Working as a staff member of the State Hornet news organization. Roles and responsibilities may include writing, reporting, photography, editing, audio/video production, web layout and design, promotions, marketing, distribution, and/or media business management.

Note: Journalism majors are required to take either JOUR 197A, JOUR 197B, or JOUR 195 Pre-requisite

JOUR 197A. The State Hornet-Introduction. 3 Units
Prerequisite(s): JOUR 30.
Term Typically Offered: Fall, Spring

Working as a staff member of the State Hornet news organization. Roles and responsibilities may include writing, reporting, photography, audio/video production, web layout and design, promotions and marketing.

Note: Journalism majors are required to take either JOUR 197A or JOUR 195.

JOUR 197B. The State Hornet-Continuing. 3 Units
Prerequisite(s): JOUR 197A
Term Typically Offered: Fall, Spring

Working as an editor, senior reporter or manager of the State Hornet. Responsibilities may include editing, staff management and in-depth reporting.

Note: Journalism majors may take this course only once for credit toward the major but up to three times for credit toward graduation.

JOUR 199. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students who wish to attempt independent work. Faculty approval required.

Note: Departmental petition required. Journalism majors or minors may submit no more than 6 units of JOUR 199 and 299 toward their degrees.

Credit/No Credit

JOUR 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who are competent to carry on individual work.

Note: Departmental petition required. Journalism majors or minors may submit no more than 6 units of JOUR 199 and 299 toward their degrees.

Credit/No Credit

BA in Political Science and Journalism

Units required for Major: 51
Total units required for BA: 120

Program Description

The Sacramento State Journalism program provides both a general academic experience and professional preparation. Sacramento's program emphasizes writing, editing, writing for interactive media, and other courses necessary to prepare students for success in media-related jobs; it also includes courses that critically examine media as an institution.

Journalism majors are the core of students who write for The State Hornet a weekly newspaper with a website updated daily at www.statehonet.com (http://www.statehonet.com/).

A student at Sacramento State may major either in Journalism or in Government-Journalism. A minor in Journalism is valuable to the student entering a career field in which journalism plays a role.

The Journalism graduate who wants to work for a newspaper should expect to serve an apprenticeship with a small newspaper before moving up to a metropolitan daily. Journalism graduates also work as magazine editors and writers, as publications employees in government agencies and associations, in broadcast journalism, and in public affairs.

Minimum Grade Requirement

 Majors must complete each required lower and upper division Journalism course with a grade of “C-” or better.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1</td>
<td>Essentials Of Government</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 30</td>
<td>News Writing</td>
<td>3</td>
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<tr>
<td>JOUR/COMS 55</td>
<td>Media Communication and Society</td>
<td>3</td>
</tr>
<tr>
<td>or JOUR 50</td>
<td>Media Literacy and Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Upper Division Courses (33 Units)

Political Science

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 170</td>
<td>Public Policy Development</td>
<td>3</td>
</tr>
<tr>
<td>POLS 180</td>
<td>California State and Local Government</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>POLS 153</td>
<td>The American Presidency</td>
<td>3</td>
</tr>
<tr>
<td>POLS 154</td>
<td>Political Parties in America</td>
<td>3</td>
</tr>
<tr>
<td>POLS 155</td>
<td>United States Congress</td>
<td>3</td>
</tr>
<tr>
<td>POLS 156</td>
<td>Interest Groups</td>
<td>3</td>
</tr>
<tr>
<td>POLS 157</td>
<td>Politics, Opinion, and Participation</td>
<td>3</td>
</tr>
<tr>
<td>POLS 159A</td>
<td>Campaigns and Elections</td>
<td>3</td>
</tr>
<tr>
<td>POLS 184</td>
<td>Introduction to Urban Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

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<thead>
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<tbody>
<tr>
<td>POLS 120A</td>
<td>Constitutional Law</td>
<td>3</td>
</tr>
<tr>
<td>POLS 120B</td>
<td>Constitutional Rights and Liberties</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>POLS 130</td>
<td>International Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 131</td>
<td>International Organization</td>
<td>3</td>
</tr>
<tr>
<td>POLS 135</td>
<td>American Foreign Policy</td>
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Journalism

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>JOUR 130A</td>
<td>News Reporting I</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 130B</td>
<td>News Reporting II</td>
<td>3</td>
</tr>
<tr>
<td>JOUR/POLS 134</td>
<td>War, Peace and the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 135</td>
<td>Public Affairs Reporting</td>
<td>3</td>
</tr>
<tr>
<td>JOUR/COMS 153</td>
<td>Journalsm Law and Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Internship

Select one of the following:

<table>
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<tbody>
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The Sacramento State Journalism program educates its students in ethical, accurate, and compassionate storytelling. We engage our community using new technology and innovative methods in order to enlighten the public and monitor the powerful. Our students become committed and versatile professionals with a strong background in both journalism theory and practice.

### BA in Journalism

#### Units required for Major: 40

#### Total units for BA: 120

#### Program Description

The Sacramento State Journalism program educates its students in ethical, accurate, and compassionate storytelling. We engage our community using new technology and innovative methods in order to enlighten the public and monitor the powerful. Our students become committed and versatile professionals with a strong background in both journalism theory and practice.

Sacramento State's program emphasizes research, writing and editing for interactive media, and other courses necessary to prepare students for success in media-related jobs; it also includes courses that critically examine media as an institution.

Journalism majors write The State Hornet (https://statehornet.com/), a weekly print newspaper and daily multimedia publication. A journalism degree prepares students for a variety of careers and graduate studies. Graduates work as journalists in a diverse range of fields.

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>The Individual and Society (6 Units)</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Area D Course</td>
<td>0</td>
</tr>
<tr>
<td>D</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
<tr>
<td>E</td>
<td>Understanding Personal Development (3 Units)</td>
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</tr>
<tr>
<td>E</td>
<td>Area E Course</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies Graduation Requirement.

3. The Department of Political Science particularly recommends at least one course in political theory.

### Examples of Electives

- JOUR 195 Internship In Journalism
- POLS 195 series
- Select 6 units of upper division courses in Political Science
- Select one upper division course in Journalism

### Notes

1. If a student has not taken POLS 1 or its equivalent, then POLS 150 may be used in place of POLS 1 or as its equivalent as a prerequisite.

2. Course also satisfies General Education (GE)/Graduation Requirement.

3. The Department of Political Science particularly recommends at least one course in political theory.

**Note:** Political Science and Journalism majors should have both an advisor in the Political Science Department and a Journalism Advisor in the Communication Studies Department.
media, as public relations representatives, and as communications staff for government agencies, non-profits, and other organizations.

**Pre-Major to Journalism**

Prior to acceptance as a Journalism major, students must first complete a pre-major consisting of all required lower division courses plus JOUR 130A and JOUR 130B. Students must successfully complete each pre-major course with a "C-" or better.

Students with a Sacramento State grade point average of 2.3 or better may request early admission to the major.

### Code | Title | Units
--- | --- | ---
**Required Pre-Major Courses (13 Units)**
JOUR 20 | Style For Media Writers | 1
JOUR 30 | News Writing | 3
JOUR/COMS 55 | Media Communication and Society | 3
or JOUR 50 | Media Literacy and Critical Thinking | 3
JOUR 130A | News Reporting I | 3
JOUR 130B | News Reporting II | 3

### Minimum Grade Requirement

Majors must complete each required lower and upper division course with a grade of "C-" or better.

### Program Requirements

#### Code | Title | Units
--- | --- | ---
**Required Lower Division Courses (7 Units)**
JOUR 20 | Style For Media Writers | 1
JOUR 30 | News Writing | 3
JOUR/COMS 55 | Media Communication and Society | 3
or JOUR 50 | Media Literacy and Critical Thinking | 3

#### Required Upper Division Courses (21 Units)

JOUR 128 | News Editing | 3
JOUR 130A | News Reporting I | 3
JOUR 130B | News Reporting II | 3
JOUR 131 | Data Journalism | 3
JOUR 135 | Public Affairs Reporting | 3
JOUR/COMS 153 | Journalism Law and Ethics | 3
Select one of the following:
JOUR 195 | Internship In Journalism | 3
JOUR 197 | Journalism Laboratory (New Course Proposed) | 3

### Electives (12 Units)

Select 12 units

### Total Units

40

---

**Note:** Up to 6 units of coursework from photography or graphic design may be applied toward a major or minor in Journalism with approval of a Journalism advisor.

### General Education Requirements

**Area A: Basic Subjects (6-9 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
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<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>0-3</td>
</tr>
</tbody>
</table>

**Area B: Physical Universe and Its Life Forms (13 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
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</table>

**Area C: Arts and Humanities (12 Units)**

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<tbody>
<tr>
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**Area D: The Individual and Society (6 Units)**

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**Area E: Understanding Personal Development (3 Units)**

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<tbody>
<tr>
<td>E1</td>
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**Area F: Ethnic Studies (3 Units)**

<table>
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<tr>
<td>F1</td>
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</table>

### Total Units

43-46

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**Graduation Requirements**

**Code | Title | Units**
--- | --- | ---
**Graduation Requirements (required by CSU) (6 Units)**
American Institutions: U.S. History | 3 |
American Institutions: U.S. Constitution & CA Government | 3 |

---

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Elective units chosen in consultation with an advisor from among Journalism faculty. At least 9 of the 12 units must be upper division. No more than a total of six units in JOUR 195, JOUR 197, OR JOUR 199 combined may be counted toward the Journalism or Government-Journalism major.
3. Department offers students an "OR" option for JOUR 55 and JOUR 50:
   - If student chooses to take JOUR 55 or COMS 55, they will not meet any area of General Education.
   - If student chooses to take JOUR 50, they will meet Area A3.
Minor in Journalism

Units required for Minor: 22

Program Description

The Sacramento State Journalism program provides both a general academic experience and professional preparation. Sacramento's program emphasizes writing, editing, writing for interactive media, and other courses necessary to prepare students for success in media-related jobs; it also includes courses that critically examine media as an institution.

Journalism majors are the core of students who write for The State Hornet, a weekly newspaper with a website updated daily at www.statehornet.com (http://www.statehornet.com/).

A student at Sacramento State may major either in Journalism or in Government-Journalism. A minor in Journalism is valuable to the student entering a career field in which journalism plays a role.

The Journalism graduate who wants to work for a newspaper should expect to serve an apprenticeship with a small newspaper before moving up to a metropolitan daily. Journalism graduates also work as magazine editors and writers, as publications employees in government agencies and associations, in broadcast journalism, and in public affairs.

Program Requirements

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<tbody>
<tr>
<td>Required Courses (10 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOUR 20</td>
<td>Style For Media Writers</td>
<td>1</td>
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<td>News Writing</td>
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<td>Electives (12 Units)</td>
<td></td>
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</table>

Select 12 additional units of upper division elective courses

Total Units 22

1 No more than 3 units may be from JOUR 195, JOUR 197A, or JOUR 199.

Design

College of Arts and Letters

Program Description

The Department of Design continually works towards establishing itself as a leader in design education for the California central valley. We strive to serve students that seek a rigorous program of study in order to empower them to be leaders in their respective fields.

The Department of Design recognizes that the environments in which we live and work are shaped by an ever-increasing quantity of visual information. This information, in the form of two- and three-dimensional forms, comes to us from a variety of sources that utilize both traditional and technologically advanced modes of visual communication. To a greater extent than at any other point in our history, artists and designers are dissolving the boundaries between two- and three-dimensional visualization.

The Department of Design is well positioned to respond to the multifaceted nature of today's visual culture. By offering degree programs in Graphic Design, Interior Architecture, and Photography we prepare our students for a wide range of visual and design practices that play a part in creating our built environment.

The Department of Design strives to prepare students to have an impact in professional creative environments that will require collaboration, adaptation to technology and leadership in solving complex problems. The needs of the institutions, businesses and individuals they work with are rapidly changing. The technology they will use to create, as well as the technology used by their audiences, will change the most. We want graduates to be capable of seizing opportunities as they arise and turn them into meaningful learning experiences throughout their career.

The Department of Design is where creative and critical thinking come together in a curriculum that, while preparing students for different career paths, fully engages students in relevant areas of technical and aesthetic concern while establishing historical and social context to their disciplines. Students are taught how to utilize an iterative process to create high quality solutions that respond to complex functional and aesthetic requirements that correspond to the appropriate audience, occupant or user.

Furthermore, the Department seeks to prepare students to be articulate in their discipline: to be able to discuss and present their work, both in writing and in conversation, from the perspective of the functional and aesthetic concepts that underlay the work and how their decisions in these areas frame and solve a given problem.

The Department of Design offers a Bachelor of Arts in Design Studies as well as Bachelor of Fine Arts in Photography, Interior Architecture, and Graphic Design. All four programs of study are accredited by the National Association of Schools of Art and (NASAD).
Programs

Design Studies (p. 179)
Graphic Design (p. 180)
Interior Architecture (p. 185)
Photography (p. 187)

Contact Information

Richard Pratt, Department of Design Chair
Mystique Horton, Administrative Support Coordinator
Mariposa Hall 5001
(916) 278-3962
FAX (916) 278-6116
Department of Design Website (http://www.csus.edu/design/)

Faculty

CARLINO, PJ
DERTINGER, DOUG
DUFF, MICHELLE
ESTIOKO, MARIO
FORREST, JOHN
GIBBS, CAROLYN
GREGORY, ELIZA
KELLY, LAUREN
PARK, MYUNG
POOR, NIGEL
POTTS, EMILY
PRATT, RICHARD
SHEPARD, NICHOLAS
SLEDGE, DAVID

BA in Design Studies

Units required for Major: 48
Minimum units required for BA: 120

Program Description

The Bachelor of Arts in Design Studies is intended for students who are interested in understanding the role of design and material culture within a broad social, political and cultural discourse. The program takes as its formative assumption that design is everywhere, from the smallest objects around us to the cities and landscapes we inhabit, and that along with visual images, constitutes a vital language with which we as a society express our values and desires.

Design Studies graduates will be prepared for career opportunities as researchers and administrators in the design field, working with private and public agencies. Graduates will also be academically prepared to enter M.A. and Ph.D. programs in design studies or design history.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSGN 4</td>
<td>Design and Thinking</td>
<td>3</td>
</tr>
<tr>
<td>GPHD 20</td>
<td>History Of Graphic Design</td>
<td>3</td>
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<tr>
<td>GPHD 25</td>
<td>Visual Basics</td>
<td>3</td>
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<tr>
<td>INTD 20</td>
<td>Design</td>
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<td>INTD 25</td>
<td>Design Fundamentals</td>
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<tr>
<td>PHOT 11</td>
<td>Digital Photography I</td>
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</tr>
<tr>
<td>PHOT 20</td>
<td>The Photographic Self</td>
<td>3</td>
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Required Lower Division Art/Design Elective (3 Units)

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART 1A</td>
<td>Art, Religions, and Power before 1400</td>
<td>3</td>
</tr>
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<tr>
<td>ART 2</td>
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<tr>
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<td>Art of the Americas</td>
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Required Upper Division Courses (21 Units)

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<td>HIST 100</td>
<td>Introduction to Historical Skills</td>
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<td>INTD 123</td>
<td>Survey of Western Architecture and Interiors</td>
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</tr>
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<td>INTD 124A</td>
<td>American Design</td>
<td>3</td>
</tr>
<tr>
<td>INTD 125</td>
<td>Urban Design and Society</td>
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</tr>
<tr>
<td>PHOT 101</td>
<td>Photography, Inception to Mid-Century</td>
<td>3</td>
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<td>PHOT 102</td>
<td>Photography, a Social History</td>
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Required Upper Division Elective (3 Units)

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<table>
<thead>
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<th>Title</th>
<th>Units</th>
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<td>ART 110</td>
<td>US and Caribbean Art: Race and Representation</td>
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<td>ART 111</td>
<td>Latin American and Latino Art History</td>
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<td>ART 112</td>
<td>Contemporary Art</td>
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<td>ART 113B</td>
<td>Asian Art and Mythology</td>
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<tr>
<td>ART 118B</td>
<td>California Architecture and Urban History</td>
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<td>HRS 168</td>
<td>Images Of America</td>
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<tr>
<td>INTD 124D</td>
<td>Principles of House Design</td>
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<td>INTD 124E</td>
<td>Film/Design</td>
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Total Units 48

General Education Requirements

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<th>Code</th>
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<tr>
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<tr>
<td>A2</td>
<td>Written Communication</td>
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<tr>
<td>A3</td>
<td>Critical Thinking</td>
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</tbody>
</table>

Area A: Basic Subjects (9 Units)

Area B: Physical Universe and Its Life Forms (13 Units)

B1 - Physical Science 3
degree program

bfa in graphic design (p. 183)

accreditation

in addition to california state university, sacramentos full accreditation by the western association of schools and colleges, the bachelor of fine arts in graphic design is also individually accredited by the national association of schools of art and design.

notice to students re: professional licensure and certification

California state university programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California state university and licensure and certification requirements can change at any time.

The California state university has not determined whether its programs meet other states' educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California state university program, they will meet their state's requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

special features

All of the faculty in the Graphic Design program have diverse and extensive expertise in the field and continue to work in the profession. Exhibitions and lectures by nationally recognized designers, field trips, and guest instruction add further exposure to professional practice and methodology. Students have been recognized in national competitions, as well as community and campus exhibitions.

Work experience is highly valued in the field of graphic design, and internships, for academic credit, provide students with practical, hands-on experience. Faculty members are instrumental in coordinating a wide range of student internships at highly respected firms and organizations throughout the region. Service learning is also a strong component of hands-on opportunities available through the program.

Graphic Design majors form an active student group called G.R.I.D.S (Graphic Resources and Information Design Students). Students meet regularly and organize workshops, field trips, and lectures. These activities increase understanding and exposure to the graphic design field. G.R.I.D.S also provides internal networking opportunities that offer members support as they pursue their studies in design.

Being located in California's capital city, California state university, Sacramento offers a wealth of cultural, professional, and employment opportunities. Graduates from the Graphic Design program at Sacramento state have secured positions in design and multimedia firms, advertising agencies, and major corporations.

career possibilities

Advertising Designer · Brand Designer · Broadcast Designer · In-house Corporate Designer · Identity Designer · Information Architect · Multimedia Designer · Packaging Designer · Prepress Technician · Print Designer · Production Artist · Project Manager · Publication Designer · Signage Designer · Type Designer · Web Designer
Contact Information
Richard Pratt, Department of Design Chair
Mystique Horton, Administrative Support Coordinator
Mariposa Hall 5001
(916) 278-3962
FAX (916) 278-6116
Graphic Design Program Website (http://www.csus.edu/design/)

Faculty
ESTIOKO, MARIO
FORREST, JOHN
KELLY, LAUREN
PARK, MYUNG
PRATT, RICHARD

GPHD 5. Introduction to Graphic Design. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only
Introduction to the field of Graphic Design. Subjects include career possibilities, current trends, issues and practices in the industry. The basic theory, techniques and practices involved in solving a visual communication problem will also be introduced.

GPHD 10. Introduction to Digital Design. 3 Units
Term Typically Offered: Spring only
Designed to familiarize students with basic understanding of the digital hardware, software, and vocabulary utilized by visual artists from a variety of disciplines. Discussions and activities will cover both creative and efficient application of digital tools and techniques. Students will complete assignments utilizing a variety of applications which may include page layout, illustration, digital image processing, and 3-D rendering software.

GPHD 20. History Of Graphic Design. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
Overview of the history of graphic design. Emphasis on symbol, type, and image development, from early pictographs to modern communication design.

GPHD 25. Visual Basics. 3 Units
Prerequisite(s): ART 20A or Pre - Interior Design Major.
Term Typically Offered: Fall, Spring
Provides a basic understanding of how visual structures are created and interpreted. Students study the main components of visual structures, become familiar with basic laws of color, and learn the basics of the gestalt principles of visual organization.

GPHD 30. Visual Basics II. 5 Units
Prerequisite(s): GPHD 25
Term Typically Offered: Fall, Spring
Introduction to the tools, materials and methodologies of the creative process in graphic design. Students study the main components of visual structures, become familiar with basic laws of color, and learn the basic principles of visual organization. The skill of rapid prototyping, through the processes of idea development, thumbnails, sketching, and mockup, will be covered. Basic concepts in visual systems and graphic message making will be introduced. A special emphasis will be placed on craftsmanship in this course.

GPHD 120. Typography I. 5 Units
Prerequisite(s): DSGN 4, INTD 20, INTD 25, PHOT 20, PHOT 11, GPHD 5, GPHD 20, GPHD 25, GPHD 30, and acceptance into the major via supplemental application.
Corequisite(s): GPHD 125 Fee course.
Term Typically Offered: Fall, Spring
Explores the history and perceptual development of typography and its application in design solutions. Theoretical constructs of typography as they relate to legibility, clarity, composition and output will be addressed. Techniques using compositional layout applications will be covered with an emphasis in typographic accuracy and efficiency as well as preparation of digital files for proper output in a variety of digital and analog formats.
Fee course.

GPHD 122. Design Production and Management. 3 Units
Prerequisite(s): GPHD 5 or GPHD 20, and ART 20A, PHOT 40, GPHD 10, GPHD 20, GPHD 25, GPHD 30, and be a declared GPHD major.
Corequisite(s): GPHD 120, GPHD 125.
Term Typically Offered: Fall only
Introduction to project management techniques specific to the creative business and technical processes for graphic design. Orchestration of image editing, vector and compositing software will be covered with an emphasis in accuracy and efficiency. Various codes and regulations related to graphic design will be reviewed.

GPHD 125. Graphic Design Systems I. 5 Units
Prerequisite(s): DSGN 4, GPHD 5, GPHD 20, GPHD 25, GPHD 30, INTD 20, INTD 25, PHOT 11, PHOT 20, and acceptance into the major via supplemental application.
Corequisite(s): GPHD 120 Fee course.
Term Typically Offered: Fall, Spring
Introduction to the language and perception of design as it is applied to systems. Complex visual structures are created, used in composition and interpreted. Techniques on ideation, design thinking, storyboarding and presentation are covered. Color theory as an integral component of message is addressed. Introduction to project management techniques specific to the creative business and technical processes for graphic design.
Fee course.
GPHD 130. Typography II. 5 Units
Prerequisite(s): GPHD 120, GPHD 125.
Corequisite(s): GPHD 135. Fee course.
Term Typically Offered: Fall, Spring

Advanced typography and its relationship with message. Application of typographic principles to a diverse series of graphic design problems utilizing type and image. Techniques in using a range of digital tools to execute solutions are reviewed.

Fee course.

GPHD 135. User Interface Design. 5 Units
Prerequisite(s): GPHD 120, GPHD 125
Corequisite(s): GPHD 130
Term Typically Offered: Spring only

Emphasis is on design of a user-centered experience in an interactive environment. Enables the students to understand the characteristics of relevant technology and select appropriate forms and functions to create specific experience for users. Introduction to formative research techniques to establish context and audience and summative research techniques to determine success of screen based design solutions.

GPHD 140. User Experience Design. 5 Units
Prerequisite(s): GPHD 130, GPHD 135
Corequisite(s): GPHD 145
Term Typically Offered: Fall, Spring

Emphasis on the development of conceptual themes, formal exploration, and user-centered interaction in time-based design. Enables the students to create vital experiences using text, sound, image, motion, and interactivity. The ability to compile, use, and defend relevant formative and summative research in creation of an appropriate design solution will be covered.

GPHD 142. Advanced Graphic Design I. 3 Units
Prerequisite(s): GPHD 130, GPHD 135.
Corequisite(s): GPHD 140, GPHD 145.
Term Typically Offered: Fall, Spring

Builds on established research, process and project management techniques and provides students with the opportunity to focus on a practical investigation in design. Theoretical, professional, and historical issues facing the design profession will be reviewed. Development of both visual and written research material will culminate in an oral presentation and then be applied to an appropriate project.

GPHD 145. Typography II. 5 Units
Prerequisite(s): GPHD 130, GPHD 135.
Corequisite(s): GPHD 140 Fee course.
Term Typically Offered: Fall, Spring

Builds on established research, process, and project management techniques and provides students with the opportunity to focus on a practical investigation in design. Development of both visual and written research material will culminate in an oral presentation and then be applied to an appropriate project. Semiotics as applied to advanced design problems will be discussed. Image making will be stressed in this course as students experiment with techniques and media including, but not limited to, photography and illustration.

Fee course.

GPHD 150. Professional Practice. 5 Units
Prerequisite(s): GPHD 140, GPHD 145.
Corequisite(s): GPHD 155.
Term Typically Offered: Fall, Spring

Introduction to the concepts and tools used to present credentials for entry into practice or advanced study. Development of the graphic design portfolio and communications package. Discussions will cover such topics as networking, interview tips, employment issues, and presentation skills. Projects refine the student’s individual design process and advance their understanding of professional practice. Professional, business, and ethical issues facing the design profession will be reviewed. Development of visual presentations, written material, and oral presentations will be required.

GPHD 152. Advanced Graphic Design II. 3 Units
Prerequisite(s): GPHD 140, GPHD 142, GPHD 145.
Corequisite(s): GPHD 150, GPHD 155.
Term Typically Offered: Fall, Spring

Advanced course in graphic design that requires students to provide solutions to real world design problems. Helps refine the students individual design process and advance their understanding of professional practice. Professional, business, and ethical issues facing the design profession will be reviewed. Development of both visual and written material will be required in a group environment as well as oral and visual presentations of this material.

GPHD 155. Graphic Design Systems II. 5 Units
Prerequisite(s): GPHD 140, GPHD 145.
Corequisite(s): GPHD 150 Fee course.
Term Typically Offered: Fall, Spring

Advanced study of visual systems as applied to branding and way finding. Construction of visual systems for an expansive multi-dimensional design solutions will be covered. Introduction to methods, techniques, and approaches of emotion-driven brand development. Application of syntactic, semantic, and pragmatic aspects of pictorial design systems to wayfinding system development. Exploration of the interplay between environmental conditions and human culture impact decisions in wayfinding system development.

Fee course.

GPHD 195. Fieldwork in Graphic Design. 3 Units
Prerequisite(s): Upper division status; GPA of 2.5 or above; GPHD 130, GPHD 135; instructor permission.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved business, government, or service agency. Internships are offered to increase student understanding of the nature and scope of agency operations and giving students orientation in occupational specialties. Supervision is provided by authorized persons in the cooperating agencies and collaborative supervision is provided by the Graphic Design faculty. Minimum of three hours per week per unit of credit is required. Each student maintains a record of activities and assignments and prepares periodic reports.

Note: Students must make arrangements with a faculty member for a work program prior to admittance. No more than 6 units of GPHD 195 may be counted toward the major.

Credit/No Credit
GPHD 196. Introduction to Human Centered Design. 3 Units
Term Typically Offered: Summer only

Introduction to the planning, development, and implementation of innovative tools and services informed by the human perspective. Emphasis on design thinking frameworks and tools used to develop solutions by including participatory action research. Techniques on empathizing with users, defining problems, ideating and prototyping solutions, testing, and iterating are covered. Importance of product accessibility and usability is addressed.

GPHD 196B. Techniques in Visual Production and Translation. 3 Units
Prerequisite(s): GPHD 125
Term Typically Offered: Fall, Spring, Summer

Teaches students analog and digital techniques and tools to enable them to apply existing drawing skills to create professional quality visuals and graphics. Students will learn how to create and convert analog visuals (drawings, paintings, etc.) to digital mediums, while exploring ways for applying traditional techniques to new digital interfaces (styluses, tablets, etc.). Class outcomes will enable them to apply a full range of graphic techniques to their existing work as designers.

GPHD 196C. Advanced Graphic Systems Design. 3 Units
Prerequisite(s): GPHD 125
Term Typically Offered: Fall, Spring

This course teaches students to analyze, critique, and create complex visual systems. Each semester the class will design a pair of complex visual systems and analyze the relationship between the characteristics of their constituent parts. Possible subjects for the course include, but are not limited to the design of: typefaces, books, and playing cards. Class outcomes will include a greater understanding and visual sensitivity to the properties that influence the creation of graphic systems.

GPHD 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed projects open to students who wish to attempt independent work.
Note: Faculty approval is required. No more than 6 units of GPHD 199 may be counted toward a Graphic Design degree.

Credit/No Credit

BFA in Graphic Design

Units required for major: 78
Minimum units required for BFA: 121

Program Description

The Bachelor of Fine Arts in Graphic Design has been developed to prepare students for professional practice and/or preparation for admission to graduate level study.

The course of study is a layered exploration that starts with fundamental principles of visual communication paired with an intensive introduction to the creative process. Exposure to multiple facets of two and three-dimensional design opens up the students’ ability to engage in interdisciplinary work. Each successive layer builds in complexity to encompass technical, conceptual, and research challenges that run concurrently with a series of classes devoted to professional practice. Historical perspective and ethical concerns are addressed throughout the curriculum. A series of curated electives provide an additional conduit for students to explore possible interdisciplinary connections in their future design practice. The program’s goal is to provide the community with a comprehensive visual problem solver that has a strong aesthetic ability coupled with a clear understanding of the strategic and conceptual challenges facing them in practice.

Admission Requirements

The Graphic Design program at Sacramento State is one of the most highly sought-after programs in Northern California. Due to the large number of applicants, the program is officially impacted and enrollment in upper division coursework is subject to a supplemental application.

The application for admission includes completion of a specific set of required lower division prerequisites and submission of a portfolio. Portfolio specifications and application procedures are available on the Department of Design website (http://csus.edu/design/). It is highly recommended that interested students speak with a Graphic Design advisor as soon as possible.

Minimum Grade Requirement

Students wishing to become Graphic Design majors must complete a series of required lower division courses with a grade of “C” or better and then must apply for admission to the program.

Prerequisite Lower Division Course Requirements

When submitting an application with the required portfolio, students must have completed or be enrolled in the following courses:

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
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<td>GPHD 5</td>
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<td>GPHD 20</td>
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<td>GPHD 25</td>
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<td>INTD 25</td>
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</tr>
<tr>
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<td>The Photographic Self</td>
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</tbody>
</table>

Total Units: 29

Technology Requirement

Students that have been accepted to the Graphic Design program, with the Department of Design, are required to own a laptop computer with appropriate software for upper division courses. Upon beginning upper division coursework, this requirement must be met. Before purchasing, please consult your major advisor or department of Design Office for the specific minimum requirements for the laptop computer and software.

Program Requirements

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<td>INTD 25</td>
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<td>PHOT 20</td>
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<td><strong>Required Lower Division Major Courses (8 Units)</strong></td>
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<tr>
<td>GPHD 30</td>
<td>Visual Basics II</td>
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<td><strong>Required Lower Division Art History (3 Units)</strong></td>
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<td>Select one of the following:</td>
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<tr>
<td>ART 1A</td>
<td>Art, Religions, and Power before 1400</td>
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<tr>
<td>ART 1B</td>
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<td>ART 1C</td>
<td>Global Modern and Contemporary Art</td>
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<td>ART 3A</td>
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<td>Art of the Americas</td>
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<td>Graphic Design Systems I</td>
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<td>Typography II</td>
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<td>GPHD 135</td>
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<td>GPHD 140</td>
<td>User Experience Design</td>
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<td>GPHD 145</td>
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<td>GPHD 150</td>
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<td>ANTH 146</td>
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<tr>
<td>ANTH 141</td>
<td>Culture Theory</td>
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<td>ANTH 16A</td>
<td>Culture Change</td>
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<tr>
<td>ART 20A</td>
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<td>ART 20B</td>
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<td>Beginning Electronic Art</td>
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<td>ART 120</td>
<td>Advanced Drawing</td>
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<td>Digital Printmaking</td>
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<td>ART 198</td>
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<td>COMS 55</td>
<td>Media Communication and Society</td>
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<td>COMS 114</td>
<td>Communication and American Culture</td>
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<td>CSC 10</td>
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<td>GPHD 195</td>
<td>Fieldwork in Graphic Design</td>
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<td>GPHD 199</td>
<td>Special Problems</td>
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<td>INTD 125</td>
<td>Urban Design and Society</td>
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<td>MKTG 121</td>
<td>Marketing Research and Information</td>
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<td>Public Relations and Ethics in Business</td>
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<td>PHOT 12</td>
<td>Digital Photography II</td>
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<td>PHOT 40</td>
<td>Darkroom Photography</td>
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<td>PHOT 101</td>
<td>Photography, Inception to Mid-Century</td>
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<td>PHOT 102</td>
<td>Photography, a Social History</td>
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<td>PHOT 111</td>
<td>Intermediate Digital Photography</td>
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<td><strong>Total Units</strong></td>
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1 Course also satisfies General Education (GE)/Graduation Requirement.

**General Education Requirements**

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<thead>
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<tr>
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<td>Critical Thinking</td>
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<td>B1</td>
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<tr>
<td>B2</td>
<td>Life Forms</td>
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<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
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<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<td><strong>Area C: Arts and Humanities (6 Units)</strong></td>
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<td>C1</td>
<td>Arts</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
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<td>C1/C2</td>
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<tr>
<td><strong>Area D: The Individual and Society (3-9 Units)</strong></td>
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<td>Area D Course</td>
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<td><strong>Area E: Understanding Personal Development (3 Units)</strong></td>
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<td>Area E Course</td>
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<td><strong>Area F: Ethnic Studies (3 Units)</strong></td>
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<td>Area F Course</td>
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<td><strong>Total Units</strong></td>
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<td>37-43</td>
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</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.
Many of the course assignments are based on actual design projects. Guest lecturers and professional panel critiques and discussions as well as building tours of outstanding projects are all important parts of the curriculum. Community service projects also help to maintain a strong connection to the community and profession.

Upper division studios will provide interior architecture students with the design and technical skills needed to practice interior design and to sit for the NCIDQ exam and become Certified Interior Designers.

When students begin taking upper division studio courses they are required to own a laptop computer and the appropriate software to create two and three dimensional drawings and renderings. Before purchasing, please consult your major advisor or the department office for specific minimum requirements for the laptop computer and software.

### Degree Program

**BFA in Interior Architecture (p. 186)**

**Accreditation**

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Fine Arts in Interior Architecture is also accredited by the National Association of Schools of Art and Design (NASAD).

**Notice to Students RE: Professional Licensure and Certification**

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

### Special Features

- The Interior Architecture program is accredited by the National Association of Schools of Art and Design (NASAD). The four-year major leads to a Bachelor of Fine Arts degree in Interior Architecture.
- Sacramento State Interior Architecture students have been award winners in numerous design competitions.
- Students are often involved in community design projects as well as projects on our growing campus.
- The Interior Design program at Sacramento State has an active student club (PRINTS) representing the American Society of Interior Designers (ASID) and the International Interior Design Association (IIDA). Monthly meetings feature guest speakers from the professional community and include workshops and field trip events.
- California State University, Sacramento, located in the state capital, is less than 100 miles from the San Francisco Bay Area. This location offers a wealth of professional employment opportunities. Graduates from our program at California State University, Sacramento have secured positions in architectural firms, interior design firms,
government agencies, private corporations, furniture manufacturing companies, and design.

**Career Possibilities**
Residential and/or Commercial Interior Designer · Space Planner · Corporate Designer · Interior Design Showroom Manager · Manufacturer’s Representative · Contract Interior Designer · Freelance Design Consultant

**Contact Information**
Richard Pratt, Department of Design Chair  
Mystique Horton, Administrative Support Coordinator  
Mariposa Hall 5001  
(916) 278-3962  
FAX (916) 278-6116

Interior Design Program Website (http://www.csus.edu/design/)

**Faculty**
ANKER, ANDREW  
DUFF, MICHELLE  
GIBBS, CAROLYN  
KIM, HYOUNGSUB  
POTTS, EMILY

**BFA in Interior Architecture**

Units required for Major: 78  
Minimum units required for BFA: 120

**Program Description**
The Bachelor of Fine Arts in Interior Architecture is intended for students who are interested in pursuing professional careers as interior designers/interior architects. The program provides students with the technical, creative, and critical thinking skills needed to practice in a variety of roles, including: design, presentation, client contact, field supervision and furniture/lighting specifications. The breadth of courses in the program reflects the importance of both a liberal arts background and professional preparation in the design field. Courses encompass the study of design history and theory, aesthetics, graphics, lighting, space planning, computer-aided design, interior construction, and professional practice.

The Interior Architecture curriculum provides comprehensive coverage in all the major areas of training, including concept development, design, communication, presentation, construction, and professional services. Many of the course assignments are based on actual design projects. Guest lecturers and professional panel critiques and discussions as well as building tours of outstanding projects are all important parts of the curriculum. Community service projects also help to maintain a strong connection to the community and profession.

**Minimum Grade Requirement**
A minimum grade of “C” or better is required in all major course requirements.

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**Program Requirements**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td><strong>Required Lower Division Design Core Courses (21 Units)</strong></td>
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<td>DSGN 4</td>
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<td>History Of Graphic Design</td>
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<td>Design</td>
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<td>INTD 25</td>
<td>Design Fundamentals</td>
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<td>PHOT 20</td>
<td>The Photographic Self</td>
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<td>PHOT 11</td>
<td>Digital Photography I</td>
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<td><strong>Required Lower Division Major Courses (9 Units)</strong></td>
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<td>American Design</td>
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<tr>
<td>INTD 124D</td>
<td>Principles of House Design</td>
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<tr>
<td>INTD 124E</td>
<td>Film/Design</td>
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<tr>
<td><strong>Required Upper Division Professional Practice (6 Units)</strong></td>
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<td>Professional Practice II</td>
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<td>INTD 175</td>
<td>Professional Practice III</td>
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<td><strong>Required Upper Division Courses (30 Units)</strong></td>
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<td>INTD 183</td>
<td>Interior Architecture Studio IV</td>
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<td>INTD 185</td>
<td>PROFESSIONAL PRACTICE - CAREER PREPARATION</td>
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<td>American Design</td>
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<td>Professional Practice IV-Internship</td>
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Total Units: 75
General Education Requirements

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<td>Critical Thinking</td>
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<td>B1</td>
<td>Physical Science</td>
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</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
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<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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<td>B5</td>
<td>Additional Course</td>
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<td>Arts</td>
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<td>Area C Course</td>
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Program Description

The Bachelor of Fine Arts in Photography at Sacramento State is aimed at educating students in contemporary photographic methodologies and in the current situation of photography, its use and its communicative effects. The curriculum is designed to give students a broad exposure to not only the technologies, processes, and models of contemporary practice, but also to introduce them to the aesthetic, cultural, and ethical dialogues surround the use and role of photography in our society. The program does not aim to create, specifically, studio artists or commercial practitioners, but to give students the tools to act in a world where such models are concurrent and highly overlap. We wish our students to be adaptable in a changing landscape of photographic practice, and to be successful and responsible in their role shaping how and what images communicate.

The Bachelor of Fine Arts in Photography is intended for students who are interested in pursuing careers as photographic image makers. The program provides students with the technical, creative, and critical thinking skills needed to practice in a variety of fields including art, design, editorial, and production. The breadth of courses in the program reflects the importance of both a liberal arts background and professional preparation in the field. Courses encompass the study of photographic and graphic history and theory, aesthetics, design, contemporary digital and analog photographic practice, lighting, complex planning, and professional practice.

Degree Program

BFA in Photography (p. 189)

Special Features

- Among the facilities available for Photography students is a large digital lab furnished with Macintosh computers, large format inkjet printers, and film and flatbed scanners. There is also an alternative process facility, a well-equipped chemical darkroom, and a studio lighting facility.
- The Photography program has a generous collection of equipment available for student checkout that includes small, medium and large format cameras, various lenses, tripods, and portable lighting equipment.
- A Design Department gallery on the 4th floor of Mariposa Hall that regularly exhibits student work.

Career Possibilities

Photography is one of the most widely used forms of visual communication in our world today. As the technology to create and share visual imagery has become more accessible and expedient, photographs have taken on a vital role in how we share complex visual information. We use it both to form and communicate the sense of who and what we are via social media, and it is an important tool in the material and mental exploration and interpretation of our world. The Photography degree at Sacramento State prepares students to thoughtfully engage in the production, interpretation, and presentation of photographic images, asking them to consider how these images can be created and used in the world, whether in personal, social, or professional contexts. While gaining technical skills in the production of photographs, students engage rigorously in the conceptual discourse surrounding photographic images (their use and meaning) and are encouraged to consider the application of photographs broadly and with flexibility. Students who earn a degree in Photography can bring this expertise to all career fields, whether these are the more traditional photographic careers that occur in the fine arts, commercial photography, journalism, or editorial work, or in the any of the myriad professions that need and rely on photographic imagery to help define, gather, and assess information, or communicate who and what they are.

Contact Information

Richard Pratt, Department of Design Chair
Mystique Horton, Administrative Support Coordinator
Mariposa Hall 5001
(916) 278-3962
FAX (916) 278-6116
Photography Program Website (http://www.csus.edu/design/

Faculty

DERTINGER, DOUG
POOR, NIGEL
SHEPARD, NICK
PHOT 11. Digital Photography I.  
General Education Area/Graduation Requirement: Arts (Area C1)  
Term Typically Offered: Fall, Spring

An introduction to digital photographic image making. Course acquaints students with photographic equipment and techniques used to create and disseminate digital images. Aesthetic, conceptual, and cultural issues surrounding the production and application of photographic images are also discussed.

PHOT 12. Digital Photography II.  
Prerequisite(s): PHOT 11. Fee course.  
Term Typically Offered: Fall, Spring

An introduction to compositing photographic images. Course provides a broad primer to digital editing and compositing techniques. Lectures and discussions provide artistic and ethical context for contemporary photographic practice. Fee course.

PHOT 15. Survey of Photography.  
Term Typically Offered: Fall, Spring

Focuses on photography’s influence on notions of self from its inception in 1938 to the present. Enhances students’ understanding of how and why photography became the powerful and ubiquitous tool that shaped a new form of visual self-expression.

PHOT 20. The Photographic Self.  
Term Typically Offered: Fall, Spring

General Education Area/Graduation Requirement: Understanding Personal Development (E)

Focuses on history and the creation of self in photography. Aesthetic and conceptual concerns surrounding the creation and interpretation of photographic images.

PHOT 40. Darkroom Photography.  
Term Typically Offered: Fall, Spring

Course covers basic concepts and skills in chemical-process photography. Emphasis is placed on basic camera theory, film exposure and development, darkroom printing, and post-processing techniques. Lectures, discussions, and assignments provide artistic and historical context for the creation and interpretation of photographic images.

Note: This course requires safety training. This course requires personal protective equipment (PPE).

Term Typically Offered: Fall only

Introduces students to the history of photography, from inception to Mid-20th Century. Practices of photographers and artists, working with photographic technologies, will be discussed. The course examines photographic vision and the impact of the medium through lectures and readings by art historians and photographers. Cross-listed: ART 101.

PHOT 102. Photography, a Social History.  
Term Typically Offered: Spring only

Examines photographic vision and the impact of the medium on society through readings by both photographers and photographic critics. Establishes the importance of photography as a contemporary medium, explores the development of photographic vision and the relationship between photographs and cultural events. Lecture/discussion.

PHOT 111. Intermediate Digital Photography.  
Prerequisite(s): PHOT 11 and PHOT 40  
Term Typically Offered: Fall, Spring

Covers intermediate to advanced concepts and techniques in digital photographic practice, providing students with the ability to explore both new and previously mastered software and hardware applications. Emphasis is on using digital techniques to generate and print effective and imaginative photographs. Lectures, discussions, and assignments focus on expanding the technical, aesthetic, and conceptual concerns surrounding the creation of contemporary photographic images.

PHOT 141. Intermediate Darkroom Photography.  
Prerequisite(s): PHOT 40 and PHOT 11  
Term Typically Offered: Fall, Spring

Course covers intermediate level concepts and skills in chemical-process photographic practice. Emphasis is placed on the artistic potential of camera- and darkroom-based image production and manipulation. Lectures, discussions, and assignments focus on expanding the aesthetic and conceptual concerns surrounding the creation and application of photographic imagery.

Note: This course requires safety training. This course requires personal protective equipment (PPE).

PHOT 148. Artificial Light, Studio.  
Prerequisite(s): PHOT 111 and PHOT 141  
Corequisite(s): PHOT 102 and PHOT 155  
Term Typically Offered: Spring only

A commercially oriented course with assignments covering such topics as food, fashion and products photographed with artificial light in the studio. Business, legal and ethical practices in commercial and editorial photography are discussed as they apply to work done in a studio setting. Students are expected to become visually and technically competent with artificial light sources used in a studio setting.

PHOT 149. Artificial Light, Location.  
Prerequisite(s): PHOT 148 and PHOT 155  
Corequisite(s): PHOT 165  
Term Typically Offered: Fall only

A location lighting course covering the use of artificial light and non-studio photography. Assignments cover such topics as: interior and exterior architecture, food and fashion shot on location. Techniques for combining the use of hot lights, electronic flash and ambient light are discussed. Students will use a body of work demonstrating their visual and technical understanding of artificial light sources for editorial and commercial application.

Prerequisite(s): PHOT 111 and PHOT 141  
Corequisite(s): PHOT 102 and PHOT 148  
Term Typically Offered: Spring only

Explores advanced techniques in the production of photographic imagery, with special emphasis on the hybridization of photographic processes. Lectures cover advanced chemical and digital photographic procedures in camera use and printing techniques. Students must demonstrate a high level of visual awareness and technical competency, and must be willing to take risks in the creative application of photographic processes.
PHOT 161. Photography in the Field. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring
The class visits specific sites followed by a group critique of the resulting photographic work. The course objective is to examine how one situation can be interpreted by many varied sensibilities, broadening the artist's visual vocabulary. Students are required to create visually unified portfolio that demonstrates a sense of place.
Cross-listed: ART 161.

PHOT 162. Alternative Photographic Processes. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring
Studio course exploring alternative photographic processes that may include: printing-out paper, new cyanotype, argyrotype, and platinum-palladium. Slide discussions, individual and class critiques.
Cross-listed: ART 162.

PHOT 163. Pinhole Photography. 3 Units
Prerequisite(s): PHOT 40 or equivalent.
Term Typically Offered: Fall, Spring
Intermediate course investigating the theory, history, and practice of pinhole photography. Use of student-made pinhole cameras of varying focal lengths using black and white and color materials. Emphasis on creative approach in both camera making and image formation, supported by intermediate-level photographic technique. Individual final portfolios and group exhibition of cameras and prints at conclusion of course.
Cross-listed: ART 163.

PHOT 165. Issues in Contemporary Photographic Practice. 5 Units
Prerequisite(s): PHOT 148 and PHOT 155 Fee course.
Term Typically Offered: Fall
Covers advanced problems in the process of creating photographic work. Emphasis is on the ways which content/form relationships within a body of work are informed by the artist's conceptual and material engagement, as well as the way in which process and context shape meaning in photographic work. Course centers on readings in contemporary theory and aesthetics, discussion, the production of photographic work, and critique.
Note: Type III Fee, $45

Fee course.

PHOT 175. Studio Topics in Photography. 3 Units
Prerequisite(s): PHOT 148 and PHOT 155
Term Typically Offered: Fall, Spring
This class is a broad investigation of photography's potential. Each semester the class concentrates on a photographic strategy including but not limited to: documentary, journalism, fabrication, image and text, and the archive. Students are introduced to photography's varied application, new developments and conversations in the medium. Readings and discussions will enlist a range of theoretical and critical approaches. Course center on readings, discussion, production of photographic work and critique.

PHOT 180. Senior Portfolio. 5 Units
Prerequisite(s): PHOT 165 Fee course
Term Typically Offered: Spring only
A senior level course aimed at furthering student's knowledge of postgraduate opportunities. The required final portfolio of images will reflect the student's photographic education, experience and area of expertise. The content and format of this portfolio will depend on the student's future academic or professional goals.
Note: Type III Fee $45

PHOT 195. Internship In Photography. 3 Units
Prerequisite(s): A minimum of two upper division photography courses.
Term Typically Offered: Fall, Spring
Directed observation and work experience with public agencies, organizations, publications, design or photography studios. Fieldwork is offered to give students experience, personal contacts and orientation in the area of professional photography. Supervision is provided by faculty and the cooperating community employer. Students are required to maintain a detailed record of activities and report regularly to the supervising faculty member. To receive credit the selected activity must be approved prior to adding the course. Ten hours weekly.
Credit/No Credit

PHOT 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed readings in photography. Open to students who are working at an advanced level of photography and competent to carry on individual work.
Credit/No Credit

PHOT 299. Special Problems. 1 - 3 Units
Prerequisite(s): Requires instructor approval.
Term Typically Offered: Fall, Spring
Individual projects or directed readings in photography for graduate level students. Open to students who are working at an advanced level of photography and competent to carry on individual work.
Credit/No Credit

BFA in Photography

Units required for Major: 79
Minimum units required for BFA: 120

Program Description

The Bachelor of Fine Arts in Photography is intended for students who are interested in pursuing careers as photographic image makers. The program provides students with the technical, creative, and critical thinking skills needed to practice in a variety of design and art fields. The breadth of courses in the program reflects the importance of both a liberal arts background and professional preparation in the design field. Courses encompass the study of photographic and graphic history and theory, aesthetics, design, contemporary digital and analog photographic practice, lighting, complex planning, and professional practice.

The Photography curriculum provides comprehensive coverage in all major areas of training, including techniques in contemporary photographic image making, concept development and communication, image production and presentation techniques, critical image evaluation, historical understanding and contextualization, and issues of proper
conduct and ethics within the field. Guest lecturers are an important part of the photography curriculum.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td><strong>Required Lower Division Design Core Courses (21 Units)</strong></td>
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<tr>
<td>DSGN 4</td>
<td>Design and Thinking</td>
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</tr>
<tr>
<td>GPHD 20</td>
<td>History Of Graphic Design</td>
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<tr>
<td>GPHD 25</td>
<td>Visual Basics</td>
<td>3</td>
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<tr>
<td>INTD 20</td>
<td>Design</td>
<td>3</td>
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<tr>
<td>INTD 25</td>
<td>Design Fundamentals</td>
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<tr>
<td>PHOT 11</td>
<td>Digital Photography I</td>
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<tr>
<td>PHOT 20</td>
<td>The Photographic Self</td>
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<tr>
<td><strong>Required Lower Division Major Courses (9 Units)</strong></td>
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<tr>
<td>PHOT 12</td>
<td>Digital Photography II</td>
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<td>PHOT 15</td>
<td>Survey of Photography</td>
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<td>PHOT 40</td>
<td>Darkroom Photography</td>
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<td><strong>Required Lower Division Art History (3 Units)</strong></td>
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<tr>
<td>ART 1C</td>
<td>Global Modern and Contemporary Art</td>
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<tr>
<td><strong>Required Lower Division Interdisciplinary Elective (3 Units)</strong></td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>ART 1A</td>
<td>Art, Religions, and Power before 1400</td>
<td>3</td>
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<tr>
<td>ART 1B</td>
<td>Art, Empires, and Cross-Cultural Exchange, 1400-1800</td>
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<tr>
<td>ART 3A</td>
<td>Traditional Asian Art</td>
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<td>ART 3B</td>
<td>Modern and Contemporary Asian Art</td>
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<tr>
<td>ART 5</td>
<td>Art of the Americas</td>
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<tr>
<td>ART 20A</td>
<td>Beginning Drawing</td>
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<tr>
<td>ART 22</td>
<td>Beginning Painting</td>
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<tr>
<td>ART 24</td>
<td>Beginning Watercolor</td>
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<tr>
<td>ART 40</td>
<td>Beginning Printmaking</td>
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<tr>
<td>ART 50</td>
<td>Beginning Ceramics</td>
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<tr>
<td>ART 75</td>
<td>Beginning Metalsmithing</td>
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<tr>
<td>ART 88</td>
<td>Beginning Sculpture</td>
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<tr>
<td>ART 97</td>
<td>Beginning Electronic Art</td>
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<tr>
<td>COMS 8</td>
<td>Interpersonal Communication Skills</td>
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<tr>
<td>COMS 55</td>
<td>Media Communication and Society</td>
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<tr>
<td>or JOUR 55</td>
<td>Media Communication and Society</td>
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<tr>
<td>FILM 97</td>
<td>Introduction to Film Studies</td>
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<td>GPHD 5</td>
<td>Introduction to Graphic Design</td>
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<td>GPHD 30</td>
<td>Visual Basics II</td>
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<td>INTD 15</td>
<td>Introduction to Interior Design</td>
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<td>INTD 30</td>
<td>Introduction to Computer Aided Design</td>
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<td>JOUR 20</td>
<td>Style For Media Writers</td>
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<td>JOUR 50</td>
<td>Media Literacy and Critical Thinking</td>
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<td>THEA 1</td>
<td>Introduction To Theatre</td>
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<tr>
<td>THEA 2</td>
<td>History of the Theatre: Ancient to Renaissance</td>
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<td>THEA 3</td>
<td>Theatre History After 1660</td>
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<td>THEA 5</td>
<td>Aesthetics of Theatre and Film</td>
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<td><strong>Required Upper Division Studio Courses (22 Units)</strong></td>
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<td>PHOT 111</td>
<td>Intermediate Digital Photography</td>
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<td>PHOT 141</td>
<td>Intermediate Darkroom Photography</td>
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<td>PHOT 148</td>
<td>Artificial Light, Studio</td>
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<td>PHOT 155</td>
<td>Advanced Photography Techniques</td>
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<td>PHOT 165</td>
<td>Issues in Contemporary Photographic Practice</td>
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<td>PHOT 180</td>
<td>Senior Portfolio</td>
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<td><strong>Required Upper Division Studio Elective (3 Units)</strong></td>
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<td>Select one of the following:</td>
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<td>PHOT 149</td>
<td>Artificial Light, Location</td>
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<td>PHOT 175</td>
<td>Studio Topics in Photography</td>
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<tr>
<td><strong>Required Upper Division Photographic Theory and History (6 Units)</strong></td>
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<td>PHOT 101</td>
<td>Photography, Inception to Mid-Century</td>
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<td>PHOT 102</td>
<td>Photography, a Social History</td>
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<tr>
<td><strong>Required Upper Division Interdisciplinary Electives (6 Units)</strong></td>
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<td>Select two of the following:</td>
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<td>ART 100</td>
<td>Origins of American Indian Art</td>
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<td>ART 103</td>
<td>Art of the Ancient Mediterranean</td>
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<td>ART 105</td>
<td>Medieval Art</td>
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<td>ART 106</td>
<td>Renaissance Art</td>
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<td>ART 107</td>
<td>Baroque and Rococo Art</td>
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<td>ART 108</td>
<td>19th Century Art</td>
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<td>ART 109</td>
<td>Modern Art</td>
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<td>ART 110</td>
<td>US and Caribbean Art: Race and Representation</td>
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<td>ART 111</td>
<td>Latin American and Latino Art History</td>
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<td>ART 112</td>
<td>Contemporary Art</td>
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<td>ART 113B</td>
<td>Asian Art and Mythology</td>
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<td>ART 117A</td>
<td>Art of India and Southeast Asia</td>
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<td>ART 117B</td>
<td>Art of China and Japan</td>
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<td>ART 117C</td>
<td>Art of Korea</td>
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<td>ART 118A</td>
<td>Modern Architecture</td>
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<td>ART 118B</td>
<td>California Architecture and Urban History</td>
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<td>ART 120</td>
<td>Advanced Drawing</td>
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<td>ART 122A</td>
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<td>ART 147</td>
<td>Video Art</td>
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<td>ART 150</td>
<td>Advanced Ceramics</td>
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<td>ART 153</td>
<td>Hand-Built Ceramic Techniques</td>
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<td>ART 174</td>
<td>Intermediate Jewelry</td>
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<td>ART 175</td>
<td>Intermediate Metalsmithing</td>
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<td>ART 183</td>
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<td>DSGN 101</td>
<td>World Design and Visual Culture</td>
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<td>INTD 125</td>
<td>Urban Design and Society</td>
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<td>JOUR 120</td>
<td>History Of The Media</td>
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<td>JOUR 134</td>
<td>War, Peace and the Mass Media</td>
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</table>
PHOT 149  Artificial Light, Location
PHOT 175  Studio Topics in Photography

Required Upper Division Culture and Society Elective (3 Units)
Select one of the following: [3 units]

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ETHN 133</td>
<td>Crosscultural Aging in America</td>
</tr>
<tr>
<td>ETHN 137</td>
<td>Race and Ethnicity in Latin America and Caribbean</td>
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<tr>
<td>ETHN 143</td>
<td>American Indians, Film and Popular Culture</td>
</tr>
<tr>
<td>ETHN 150</td>
<td>Native American Oral Tradition and Storytelling</td>
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<tr>
<td>ETHN 151</td>
<td>Native American Women</td>
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<td>JOUR 172</td>
<td>Women in the Mass Media</td>
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<tr>
<td>JOUR 175</td>
<td>Minorities, Social Change and the Press</td>
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<tr>
<td>THEA 140</td>
<td>Black Drama in the African Diaspora</td>
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<tr>
<td>THEA 144</td>
<td>Women and Theatre: Staging Diversity</td>
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<tr>
<td>THEA 173</td>
<td>Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present</td>
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<td>THEA 174</td>
<td>Multicultural Perspectives in American Theatre</td>
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Total Units 79

General Education Requirements

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<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>A1</td>
<td>Oral Communication</td>
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<tr>
<td>A2</td>
<td>Written Communication</td>
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<tr>
<td>A3</td>
<td>Critical Thinking</td>
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<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
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<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
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<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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<td>B4</td>
<td>Math Concepts</td>
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<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td>C1</td>
<td>Arts</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
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<tr>
<td>C1/C2</td>
<td>Area C Course</td>
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<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td>D1</td>
<td>The Individual and Society</td>
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<tr>
<td>D2</td>
<td>Area D Course</td>
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<tr>
<td>D3</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<td>E1</td>
<td>Understanding Personal Development (3 Units)</td>
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<tr>
<td>F1</td>
<td>Ethnic Studies</td>
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</table>

Total Units 43

College of Arts and Letters

Program Description

The English Department of California State University, Sacramento, is a community of teachers, scholars, writers, and support staff whose primary mission is to promote learning in composition, creative writing, English education, film, linguistics, literature, and the teaching of English as a second language. The Department seeks to help students acquire knowledge, develop skills, and realize their own intellectual and creative goals.

At the undergraduate and graduate levels, the English Department presents a broad and balanced curriculum designed to develop the reading and writing skills, the interpretative abilities, and the cultural awareness of its students by maintaining and enhancing a tradition of strong teaching, solid scholarship, and vigorous support of creative literary activity.

Degree Programs

- BA in English (p. 213)
- Minor in English (p. 222)
- Minor in Creative Writing (p. 221)
- Minor in Teaching English to Speakers of Other Languages (TESOL) (p. 222)
- Single Subject Matter Program (Pre-Credential Preparation) (p. 222)
- Certificate in Teaching Composition (p. 215)
- Certificate in Advanced Study in Teaching English to Speakers of Other Languages (TESOL) (p. 215)
- MA in English (Creative Writing) (p. 217)
- MA in English (Literature) (p. 218)
- MA in Teaching English to Speakers of Other Languages (TESOL) (p. 220)
- MA in Composition, Rhetoric, and Professional Writing (p. 216)

Special Features

- A Course Description Booklet giving detailed descriptions of courses to be offered in the next semester, together with statements of requirements for the major and minor and for the graduate program, will be available on the English Department Web site a month or so before registration materials are issued. All students are assigned an English faculty advisor; students are encouraged to consult with them in planning schedules. English majors and minors are urged to examine their career goals early in their program and to discuss their plans with English Department faculty advisors.
- Qualified upper division and graduate students may apply for paid assistantships or associateships in the English Department. Student Assistants and Graduate Assistants usually work from 10 to 20 hours per week at such tasks as tutoring and clerical assistance. Teaching Associates normally teach one section of composition each semester for up to three semesters. Information is available on the English Department website.
• Internships are available for academic credit and career training governmental agencies, businesses, community colleges, and other institutions and organizations.
• Students interested in the various aspects of publication are encouraged to become involved in the student-produced *Calaveras Station Literary Journal*, a professional-quality journal of student work published annually. Submissions, solicited in fall semester, are open to all Sacramento State students.

**Career Possibilities**
Advertising Person · Arts Program Administrator · Business Administrator · Civil Servant · Columnist/Journalist · Contract Specialist · Creative Writer · Drama/Film Critic · Editor/Evaluator · Educator · Film/TV Scriptwriter · Information Specialist · Interpreter · Lawyer · Legislative Assistant · Methods Analyst · Program Developer · Public Relations Person · Researcher · Technical Writer · Writing Consultant

**Contact Information**
Hellen Lee, Department Chair
Shaun Kirby, Administrative Analyst/Specialist
Brianna Renner, Administrative Support Assistant
Calaveras Hall 103
(916) 278-6586
Department of English Website (http://www.csus.edu/engl/)

**Faculty**
ANDERSON-POWELL, AMY
BARRISH, MATTHEW
BETHEL, DANIEL
CLARK, JOHN T.
CLARK-OATES, ANGELA
COPE, JONAS
CORDOVA, TERESA A.
DOBSON, MONA
DUNN, SAMUEL J.
DUROSKO, SUSAN
FANETTI, SUSAN
GHOSAL, TORSAL
GIEGER, JASON C.
HAYES, HOGAN
HEATHER, JULIAN
HECKATHORN, AMY C.
KOCHAI, JAMIL JAN
KOMIYAMA, REIKO
LAFLEN, ANGELA
LAPORTE, CARRIE
LEE, HELLEN
LINVILLE, CYNTHIA
LIU, HSIANG (Sean)
MARTINEZ, ROSA
McKinney, Joshua B.
MENDOZA, RUBEN (Ruby)
MICHAELS, ANN
MITCHELL, REBECCA
MONTGOMERY, CHRISTINE LUPO
MORALES, SYLVIA
OVERBY, BLAIR
PICKREL, CAROLYN
RASMUSSEN, COURTNEY
RICE, DOUGLAS F.
SCHARF, ANITA V.
SCHILLING, JASON
SEO, MI-SUK
SWEET, NANCY F.
TOISE, DAVID W.
TRIMBLE, JEREMY
WILLIAMS, (SAMUEL) BRETT
ZARINS, KIM

**ENGL 1.** Basic Writing Skills. 3 Units

*Prerequisite(s):* Score of 146 and below on English Placement Test or credit in ENGL 15. Department approval required.

*Term Typically Offered:* Spring only

Prepares students for the challenging thinking, reading, and writing required in academic discourse. Uses writing as a means for discovery and reflection as well as reading as a source for ideas, discussion, and writing. Concentrates on developing expository essays that communicate clearly, provide adequate levels of detail, maintain overall coherence and focus, and demonstrate awareness of audience and purpose.

*Note:* May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree.

**ENGL 1C.** Critical Thinking and Writing. 3 Units

*Prerequisite(s):* Grade of C- or better in ENGL 5.

*Term Typically Offered:* Fall, Spring

Devoted to the principles of critical thinking and the writing of argumentative essays. Focuses upon formulating defensible statements, evaluating evidence, and applying the principles of inductive and deductive reasoning.
ENGL 1X. Academic Literacies Workshop. 1 Unit
Corequisite(s): ENGL 5 or ENGL 5M or ENGL 10 or ENGL 10M or ENGL 11 or ENGL 11M
Term Typically Offered: Fall, Spring

Offers instruction in elements of academic literacy so that students develop proficiency in the writing process, with a specific emphasis on drafting, planning, and revision strategies and methods. Instruction takes place in traditional classroom or hybrid setting; students, in small groups, engage in guided exploration and facilitated workshops on academic literacy strategies, such as critical reading, writing, and research strategies. Offers support for GE area A2: Written Communication; requires a co-requisite in ENGL 5, 5M, 10, 10M, 11, or 11M.
Credit/No Credit

ENGL 3. Introduction to Academic Discourse. 4 Units
Term Typically Offered: Fall, Spring

Offers students a rigorous introduction to academic discourse at the college level in the areas of critical reading, critical thinking, academic discussion, and the use of academic research. Concentrates on using expository texts as a foundation for analyzing the rhetorical strategies and effectiveness of an argument. Promotes academic discussion and fosters intellectual curiosity and collaboration.
Note: Receives baccalaureate credit.
Credit/No Credit

ENGL 3M. Introduction to Academic Discourse for Multilingual Students. 4 Units
Term Typically Offered: Fall, Spring

Offers multilingual students a rigorous introduction to academic discourse at the college level in the areas of critical reading, critical thinking, academic discussion, and the use of academic research. Concentrates on using expository texts as a foundation for analyzing the rhetorical strategies and effectiveness of an argument. Promotes academic discussion and fosters intellectual curiosity and collaboration.
Note: Receives baccalaureate credit.
Credit/No Credit

ENGL 5. Accelerated Academic Literacies. 3 Units
General Education Area/Graduation Requirement: Written Communication (A2)
Term Typically Offered: Fall, Spring

Intensive, semester-long course to help multilingual students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop metacognitive understandings of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement
Credit/No Credit

ENGL 5M. Accelerated Academic Literacies - Multilingual. 3 Units
General Education Area/Graduation Requirement: Written Communication (A2)
Term Typically Offered: Fall, Spring

Intensive, semester-long course to help multilingual students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop metacognitive understandings of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement
Credit/No Credit

ENGL 10. Academic Literacies I. 3 Units
Term Typically Offered: Fall only

Year-long course (combined with ENGL 11) to help students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement
Credit/No Credit

ENGL 10M. Academic Literacies I - Multilingual. 3 Units
Term Typically Offered: Fall, Spring

Year-long course (combined with ENGL 11M) to help multilingual students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement
Credit/No Credit

ENGL 11. Academic Literacies II. 3 Units
Prerequisite(s): ENGL 10.
General Education Area/Graduation Requirement: Written Communication (A2)
Term Typically Offered: Spring only

Continued study (following ENGL 10) to help students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement
ENGL 11M. Academic Literacies II-Multilingual. 3 Units
Prerequisite(s): ENGL 10M.
General Education Area/Graduation Requirement: Written Communication (A2)
Term Typically Offered: Spring only
Continued study (following ENGL 10M) to help multilingual students use reading, writing discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement

ENGL 15. College Language Skills. 4 Units
Prerequisite(s): Score of 120-141 on the English Placement Test.
Term Typically Offered: Fall, Spring
Instruction in reading and writing skills. Focuses on the interrelationship of reading and writing, with emphasis on development, organization, and clarity of communication. Lecture three hours; lab two hours.
Note: Utilizes computers.

ENGL 16. Structure Of English. 3 Units
Prerequisite(s): ENGL 5 or equivalent.
Term Typically Offered: Fall, Spring
Introduction to the terminology and structure of traditional grammar; analysis of the standard rules for agreement, punctuation, pronoun reference, etc.; introduction to social variance with respect to usage-standard vs. non-standard; and a description of the English sound system (vowels and consonants) and its relationship to standard orthography (sound/letter correspondences) spelling rules.

ENGL 20. College Composition II. 3 Units
Prerequisite(s): Completion of ENGL 5 or ENGL 5M or ENGL 11M or ENGL 11M or equivalent with a C- or better; sophomore standing (must have completed 30 units prior to registration).
Term Typically Offered: Fall, Spring
Advanced writing that builds upon the critical thinking, reading, and writing processes introduced in ENGL 5 and ENGL 5M. Emphasizes rhetorical awareness by exploring reading and writing within diverse academic contexts focusing on the situational nature of the standards, values, habits, conventions, and products of composition. Students will research and analyze different disciplinary genres, purposes, and audiences with the goals of understanding how to appropriately shape their writing for different readers and demonstrating this understanding through various written products.
Note: Writing requirement

ENGL 20M. College Composition II for Multilingual Students. 3 Units
Prerequisite(s): ENGL 5 or ENGL 5M or equivalent; sophomore standing
Term Typically Offered: Fall, Spring
Advanced writing for multilingual that builds upon the critical thinking, reading, and writing processes introduced in English 5/5M. Emphasizes rhetorical awareness by exploring reading and writing within diverse academic contexts focusing on the situational nature of the standards, values, habits, conventions, and products of composition. Students will research and analyze different disciplinary genres, purposes, and audiences with the goals of understanding how to appropriately shape their writing for different readers and demonstrating this understanding through various written products.
Note: Writing requirement

ENGL 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding
Term Typically Offered: Fall only
Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support, as well as explore gerontological concepts needed to respond to demographic changes in today's world.

ENGL 30A. Introduction to Creative Writing. 4 Units
Term Typically Offered: Fall, Spring
Workshop for students who have had little or no experience writing fiction or poetry and who are trying to decide if they are interested in becoming writers. Over the course of the semester, students write and polish several poems and short stories which they present for critique and commentary. In addition, they study the basic elements of fiction and poetry and learn how to use these effectively in their own work.

ENGL 30B. Introduction to Writing Fiction. 4 Units
Term Typically Offered: Fall, Spring
Workshop for students who have had little or no experience writing fiction. Students write and polish several short stories which they present for critique and commentary. In addition, they study the basic elements of plot, character, description, and dialogue and learn how to use these effectively in their own fiction.

ENGL 30C. Introduction to Poetry Writing. 4 Units
Term Typically Offered: Fall, Spring
Designed for lower division students who have little or no experience writing poetry. Students will write approximately twelve poems in a variety of forms and receive instruction and practice in the workshop method. In addition, they study the basic elements of poetic craft: rhythm, enjambment, basic figures of speech, etc., and how to use them effectively in their own poetry.

ENGL 40A. Introduction to British Literature I. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only
Major developments in the literature of England from Chaucer through the close of the Augustan Age.
ENGL 40B. Introduction to British Literature II.  
3 Units  
Term Typically Offered: Spring only

Major developments in the literature of England from the Pre-Romantics and Romantics through the 20th century.

ENGL 50A. Introduction to American Literature I.  
3 Units  
Term Typically Offered: Fall only

Major developments in the literature of America from the beginnings through the Civil War.

ENGL 50B. Introduction to American Literature II.  
3 Units  
Term Typically Offered: Spring only

Major developments in American Literature from the end of the Civil War to the present.

ENGL 60. Active Reading Across the Curriculum.  
2 Units  
Term Typically Offered: Fall, Spring

Students will learn strategies and techniques to promote the social, personal, cognitive, and knowledge-building dimensions of reading. Students will learn new approaches to improve their engagement, comprehension, and analytical skills with a variety of genres in order to practice reading in more skillful ways.

Note: May be repeated for credit.

Credit/No Credit

ENGL 60M. Reading for Speed and Efficiency for Multilingual Students.  
2 Units  
Term Typically Offered: Fall, Spring

Strategies and techniques to promote greater reading efficiency and flexibility as well as to increase reading speed for college-level multilingual readers. Classroom instruction includes drills to develop rate and comprehension as well as supplementary practice in the LSC reading lab.

Note: May be repeated for credit.

Credit/No Credit

ENGL 65. Introduction to World Literatures in English.  
3 Units  
Term Typically Offered: Fall, Spring

An introduction to world literature written in English that places writers and their works within colonial, post-colonial, and literary contexts. Texts may come from Africa, India, Southeast Asia, the Middle East, the Caribbean, Canada, and non-English Britain.

ENGL 85. Grammar for Multilingual Writers.  
2 Units  
Term Typically Offered: Spring only

 Covers the major systems of English grammar in the context of reading passages and the students’ own writing. Practice in editing authentic writing.

Note: May be repeated for credit.

Credit/No Credit

ENGL 86. College Language Skills for Multilingual Students.  
4 Units  
Prerequisite(s): Score of 120-141 on the English Placement Test or score of 2 or 3 on the English Diagnostic Test.

Term Typically Offered: Fall, Spring

Focuses on the interrelationships of reading and writing, with emphasis on development, organization, grammar, and clarity of communication. Lecture three hours; lab two hours.

Note: Utilizes computers.

Credit/No Credit

ENGL 87. Basic Writing Skills for Multilingual Students.  
3 Units  
Prerequisite(s): Score of 142-145 on English Placement Test or score of 4 on English Diagnostic Test, or credit in ENGL 86.

Term Typically Offered: Fall, Spring

Emphasizes writing and language development. Instruction in reading and essay writing, from idea generation to revision and editing.

Credit/No Credit

ENGL 90A. Modern Short Plays.  
3 Units  
Term Typically Offered: Fall, Spring

Term Typically Offered: Fall, Spring

ENGL 97. Introduction to Film Studies.  
3 Units  
Term Typically Offered: Fall, Spring

Examines cinematic techniques, styles, vocabulary, and discourses. Introduces different ways for writing about films and for working with a variety of cinematic terms. Film form and style will be studied by examining specific scenes in films from different genres, nations, and directors. Films used throughout the course will be selected from different historical periods.

Cross-listed: FILM 97.

ENGL 98. Introduction to Film Discourse and Analysis.  
4 Units  
Term Typically Offered: Fall, Spring

An introduction to cinematic vocabulary, film history, and film analysis. Through this introduction, students will learn how to write about and analyze film. The course prepares students for upper division work in film studies and cultural analysis. The course includes a significant research and/or creative project.

ENGL 100B. Literary Theory.  
4 Units  
Term Typically Offered: Fall, Spring

Designed to engage students in a productive conversation about the various theories of literature and reading that currently inform Literary Studies. Provides a historical overview of modern theory including, but not limited to, Formalism, Structuralism, Psychoanalysis, Marxism, Deconstruction, and Feminism. Students are encouraged to apply these theories to their practice of literary criticism and to assess the strengths and weaknesses of each paradigm.
ENGL 100Z.  Topics in Literary Theory and Criticism.  4 Units
*Prerequisite(s):* GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

**General Education Area/Graduation Requirement:** Writing Intensive
**Graduation Requirement (WI)**
**Term Typically Offered:** Fall, Spring

Investigates one or more schools of literary theory or criticism and their application to works of literature and/or film.

**Note:** May be repeated twice for credit as long as topics vary; Writing Intensive

ENGL 105.  Film Theory and Criticism.  4 Units
**Term Typically Offered:** Fall, Spring

Survey of film theory focusing on Auteurism, Class, Expressionism, Formalism, Genre, Gender, Narratology, Neorealism, Phenomenology, Post-Structuralism, Psychoanalysis, Realism, Semiology, Structuralism and Third Cinema.

ENGL 109M.  Preparing to Write in the Disciplines - Multilingual.  3 Units
*Prerequisite(s):* ENGL 20 with at least a C- grade or better.

**Term Typically Offered:** Fall, Spring

Provides intensive practice for multilingual writers in prewriting, drafting, revising, and editing academic writing. Students work with a TESOL-trained instructor to research, analyze, reflect on, and write about the kinds of writing produced in academic disciplines. Students produce a considerable amount of writing such as informal reading responses, rhetorical analyses, and an extended academic research project. Students will submit their writing late in the semester in a Portfolio, from which they will receive a Writing Placement for Juniors.

**Note:** This course has the same learning outcomes as English 109W Preparing to Write in the Disciplines, but it is taught by an instructor trained to work with multilingual writers.

ENGL 109W.  Preparing to Write in the Disciplines.  3 Units
*Prerequisite(s):* English 20 with a C- grade or better.

**Term Typically Offered:** Fall, Spring

Provides intensive practice in prewriting, drafting, revising, and editing academic writing. Students research, analyze, reflect on, and write about the kinds of writing produced in academic disciplines. Students produce a considerable amount of writing such as informal reading responses, rhetorical analyses, and an extended academic research project. Students will submit their writing late in the semester in a Portfolio, from which they will receive a Writing Placement for Juniors.

ENGL 110A.  Linguistics and the English Language.  3 Units
**Term Typically Offered:** Fall, Spring

Survey of modern English and the basic concepts of modern linguistics. Students will learn how linguists view regularity in language, as exemplified by data from English. Students will also learn how English spelling is an imperfect representation of sounds, how the sound system of English operates, how words and sentences are formed and may be analyzed, how the language changes over time, space, and social setting, and how the language is learned by children and adults.

ENGL 110B.  History of the English Language.  3 Units
**Term Typically Offered:** Fall, Spring

Survey of the linguistic and social history of the English language, tracing its growth from a minor dialect of the Germanic family to one of the most widely spoken languages of the world. Topics include structural change in the language, vocabulary growth, and variation in English around the world.

ENGL 110C.  Technology in Second Language Teaching.  3 Units
**Term Typically Offered:** Summer only

Prepares language teachers to effectively integrate technology into classrooms. Examines theoretical rationales for using computer-assisted language learning, the range of uses of technology in classrooms, and best practice. Develops students' technological literacy and ability to critically evaluate computer-assisted language teaching materials. Cross Listed: ENGL 210C; only one may be counted for credit.

ENGL 110J.  Traditional Grammar and Standard Usage.  3 Units
**Term Typically Offered:** Fall, Spring

Develops a thorough understanding of basic issues in traditional English grammar and usage. It emphasizes knowledge of traditional grammar needed by single-subject credential students expecting to teach high school English. Topics include parts of speech, functions of words in sentences, phrases and clauses, and punctuation. Students will learn to apply their knowledge of grammar in composition instruction and marking essays. Students will also study use of specific grammatical features in developing rhetorical styles.

ENGL 110P.  Second Language Learning and Teaching.  3 Units
**Term Typically Offered:** Fall, Spring

Surveys the major issues involved in the acquisition of second languages and in teaching second language (L2) students. Topics covered include differences between first and second language acquisition, including age, biology, cognitive styles, personality, sociocultural factors, and linguistic variables; in addition, various models, techniques and approaches to L2 teaching are covered. Special attention is given to the unique demographics and characteristics of language minority students in California's public schools.

ENGL 110Q.  English Grammar for ESL Teachers.  3 Units
**Term Typically Offered:** Fall, Spring

A survey of those aspects of English grammar that are relevant to teaching second language learners of English. The emphasis is on elements of simple and complex sentences, particularly the structure of noun phrases, the meanings of verb forms, and the expression of adverbial meanings.
ENGL 116A. Studies in Applied Linguistics. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Students learn the basics of the English system of phonology and morphology. Takes an integrated approach synthesizing the issues of phonics, schemata-building, and whole language strategies in teaching reading and writing to young learners. Students will also learn the importance of first and second language acquisition for elementary school students. Evaluation will include classroom examinations, and students will also undertake a detailed case study of one child learning to read and write.

ENGL 116B. Children's Literary Classics. 3 Units
Prerequisite(s): Successful completion of at least 60 units (junior standing).
Term Typically Offered: Fall, Spring

Introduction to the rich profusion of children's literature from a variety of cultures and countries and provides the opportunity to respond to this literature creatively and personally. Students will become familiar with the basic terminology of literary analysis – themes, irony, point-of-view, etc. – in order to deepen and enrich their experiences with the fiction, drama, and poetry available to young people. The readings are balanced for gender, culture, and ethnic concerns.

ENGL 120A. Advanced Composition. 4 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Intensive writing workshop in which student writing is the focus. Students will engage in a writing process that will include feedback from peers and the instructor throughout the process. This writing process may occur in a variety of rhetorical situations and genres. Through reflection on their writing products and processes, students will gain an awareness of themselves as writers. By the end of the course students will complete an extensive research project and a guided project focused on academic inquiry.

Note: ENGL 120A is a requirement for English majors.

ENGL 120C. Topics in Composition. 4 Units
Prerequisite(s): ENGL 20 or ENGL 120A. GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Offers a rotating series of topics relevant to composition studies, such as technology-based writing, writing across the curriculum, critical literacy, etc. Introduces students to the theory and practice of the field under consideration. Regardless of the topics, students will explore the major scholarly works of the field and produce writing that analyzes and utilizes the concepts in the area under consideration.

Note: May be repeated for credit as long as topic differs.

ENGL 120E. Digital Writing and Rhetoric. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only – even years

Serves as an introduction to theories about and forms of digital writing while also providing students with opportunities to make digital arguments that reflect on digital media themselves. Introduces students to basic skills in interface and narrative design including typography, layout, color, imagery, and media integration. The course focuses on teaching students how to develop what they already know about rhetoric and writing while also helping them apply those rhetorical skills within digital spaces.

ENGL 120L. Community Literacy and Public Rhetorics. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Examines how writers navigate the intersections and tensions between academic, professional, and community writing to engage local publics through a variety of literacy practices. Students will be introduced to theories and methods from community writing studies to construct a framework for analyzing and composing rhetoric that enacts change in diverse publics. Students will inquire, discover, and act beyond the classroom through a structured service learning project.

ENGL 120P. Professional Writing. 4 Units
Prerequisite(s): ENGL 20 or ENGL 120A. GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Teaches students the most common professional writing genres used in career fields ranging from business to public relations to nonprofit management. Focuses on how business or technical communication is different from academic styles and introduces students to the current writing challenges and practices in these fields. Students will gain instruction and practice composing various essential writing formats, such as memos, reports, and feasibility studies.
ENGL 120R.  Topics in Rhetoric.  4 Units
Prerequisite(s): Complete ENGL 20 or ENGL 120A; GWAR certification before Fall 2009; or WPJ score of 80 or above; or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL 109X; or WPJ score 70/71 + co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Offers a rotating series of topics relevant to rhetorical studies, such as digital rhetoric, cultural rhetorics, contemporary rhetorical theories, etc. Introduces students to the theory and practice of the field under consideration. Regardless of the topic, students will explore the major scholarly works of the field and produce writing that analyzes and utilizes the concepts in the area under consideration.

Note: May be repeated for credit as long as topic differs.

ENGL 120S.  Writing in the Social Sciences.  3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Introduces principles of analyzing and composing texts appropriate for various social science disciplines. Provides practice in analyzing texts in social science journals and in writing abstracts, summaries, and literature reviews. Appropriate for upper-division undergraduate students and beginning graduate students in TESOL and in other social science programs (e.g., psychology, sociology, anthropology, etc.)

ENGL 120T.  Technical Writing.  4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Teaches students the skills of a technical communicator capable of translating information created by technical experts for non-expert readers, whether those are business decision makers or members of the public. Focuses on how technical communication is different from academic styles and introduces students to the current writing challenges and practices. Prepares students to craft messages using ever-changing and increasingly powerful, integrated media. 4 units

ENGL 120X.  MLA and APA Style Guides.  1 Unit
Corequisite(s): ENGL 120A, ENGL 198T, a Writing Intensive course, or instructor permission.
Term Typically Offered: Fall, Spring

Students will learn how to format papers, cite sources, and integrate in-text citations into their work according to MLA and APA formatting and style guides.

ENGL 121.  Writing Center Tutoring.  1 Unit
Term Typically Offered: Fall, Spring

One-on-one tutoring in reading and writing at the University Writing Center. Student writers will meet with assigned tutor an hour a week. Topics could include understanding assignments, prewriting, revising, reading strategies, editing strategies, integrating research, etc. Students must sign up for a regular tutoring session time during week two of the semester at the University Writing Center.

Note: May be repeated for credit.

Credit/No Credit

ENGL 125A.  Literature and Film for Adolescents.  4 Units
Prerequisite(s): ENGL 20 or ENGL 120A and COMS 104 or COMS 4
Term Typically Offered: Fall, Spring

Provides prospective secondary school English teachers with an opportunity to think through important issues related to the planning and implementation of literature programs for adolescents. Equal emphasis will be given to the study of poetry, fiction, non-fiction, drama, and film. The focus will embrace literature from a variety of cultures and periods.

ENGL 125B.  Writing and the Young Writer.  3 Units
Prerequisite(s): ENGL 20 or ENGL 120A; and ENGL 110J or ENGL 110Q or ENGL 16
Term Typically Offered: Fall, Spring

Provides an introduction to teaching writing in high school and operates on the assumption that the need for and impact of writing competence for students is interdisciplinary and pervasive. The class has a workshop format, and students will practice many of the strategies studied. The texts will cover theoretical issues in teaching composition and practical methods of implementing theory in public school classrooms.

ENGL 125E.  Academic Reading and Writing for Second Language Students.  3 Units
Term Typically Offered: Fall, Spring

Helps prospective teachers to better understand the unique needs of second language students. Covers second language acquisition theory with particular emphasis on the teaching of reading and writing for academic purposes. Practical skills covered will also focus on the particular needs of second language readers and writers, for instance, how to help them to read more efficiently and with greater comprehension, how to write more fluently and accurately in ways that meet the needs and expectations of the academic discourse community.

ENGL 125F.  Teaching Oral Skills.  3 Units
Term Typically Offered: Fall, Spring

Provide students with both the necessary background knowledge as well as the specific pedagogical tools for promoting proficiency in spoken interaction, listening skills, and pronunciation in second language/foreign language contexts, specifically, English as a Second Language (ESL) and English as a Foreign Language (EFL).
ENGL 130A. Intermediate Fiction Writing. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30B
Term Typically Offered: Fall, Spring
Workshop for students who already have some experience writing short stories. Students write and polish several stories which they present for critique and commentary. They also take an in-depth look at the theory and craft of fiction-writing, analyze the stories of contemporary writers from diverse ethnic and cultural backgrounds, and learn how to apply what they have learned to their own writing.

ENGL 130B. Intermediate Poetry Writing. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30C.
Term Typically Offered: Fall, Spring
Designed for students interested in developing their poetic expression beyond the basics covered in ENGL 30A and ENGL 30C. Emphasizes practice and experimentation with meters, verse forms, and figures of speech. Focal points for analysis and discussion will be poems and essays by contemporary poets of various aesthetic orientations, as well as work produced by members of the class.

ENGL 130C. Special Topics in Poetry Writing. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30C.
Term Typically Offered: Fall, Spring
Provides students with further opportunity to refine their poetic craft beyond the levels achieved in 30C and 130B. Emphasizes further experimentation with meters, verse forms, and figures of speech as well as questioning the "rules" of poetry and encouraging students to blur or defy the boundaries of genre. Focal points for analysis and discussion will be poems and essays by contemporary poets of various aesthetic orientations, as well as work produced by members of the class.

ENGL 130D. Meter and Rhythm. 4 Units
Term Typically Offered: Fall, Spring
Offers an in-depth study of prosody including the principles of meter (line measurement) and scansion (the marking of stressed syllables to determine meter and rhythm), as well as examining the relationship of these principles to verse in English. Examines a variety of poetic schemes, tropes, and forms. Three hours, lecture and guided practice.

ENGL 130F. Writing For Television. 4 Units
Term Typically Offered: Fall, Spring
Focuses on training students in video literacy and script writing for the video explosion: educational media, documentaries, and interactive programs.

ENGL 130G. Between Genres: Flash Fiction/Prose Poetry. 4 Units
Term Typically Offered: Fall, Spring
Offers undergraduate poets and fiction writers the opportunity to explore/experience with the long-standing anti-genre of the poetry/fiction hybrid. For 200 years writers around the world have noted the symbiosis between the genres of poetry and prose. Currently, some of America's most exciting writers are currently exploring the margins between prose poetry, flash fiction, and related evolving forms. Prerequisite: ENGL 30A, ENGL 30B, or ENGL 30C.

ENGL 130J. Writing Feature Film Scripts. 4 Units
Term Typically Offered: Fall, Spring
Workshop designed for students who have little or no previous experience writing for the screen. Students write the synopsis, treatment, and part of the master scene script for a feature film, all of which are polished and revised in a workshop setting. Special attention is given to the dynamics of plot, characterization, and dialogue with an emphasis on the difference between writing for film and writing other kinds of fiction.

ENGL 130M. Art of Autobiography. 4 Units
Prerequisite(s): At least a C- grade in ENGL 30A or 30B, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Students keep a journal and write several drafts of an autobiographical essay which they present for critique and commentary. They also read and analyze several biographies and journals by writers from diverse ethnic and cultural backgrounds.

ENGL 130N. Creative Non-Fiction. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30B.
Term Typically Offered: Fall, Spring
Students write several non-fiction pieces which may include (but are not limited to) autobiography, memoir, nature-writing, travel writing, and literary memoir. Students need not previously have had fiction-writing experience to take this course, but they must be prepared to write literary non-fiction of high quality.

ENGL 130R. Playwriting. 4 Units
Term Typically Offered: Fall, Spring
This course will explore the fundamentals of playwriting, as practiced in the real-world, contemporary commercial and independent theatre markets. It will introduce the writer to the vocabulary and techniques used to tell a story on the stage, and examine the differences between stage and screen. Exercises will illustrate the basic two-act structure, as well as less standard, non-linear, and innovative structures. This class will culminate in students writing the first act of a full-length play.

ENGL 130T. Advanced Writing Feature Film Scripts. 4 Units
Prerequisite(s): ENGL 130J Writing Feature Film Scripts, or consent of instructor
Term Typically Offered: Fall, Spring
This course will focus on completing a first draft of a screenplay for a feature film. This course will have a strong emphasis on rewriting. There will be lectures, class workshops, peer reviews, and individual writing assignments.

ENGL 130V. Advanced Writing for Television. 4 Units
Prerequisite(s): ENGL 130F or consent of instructor
Term Typically Offered: Fall, Spring
This class will build on the knowledge acquired in ENGL 130F. Students will write, rewrite, and complete a full length pilot for an original television show. This course will have a strong emphasis on rewriting. We will analyze modern television shows and discuss what makes them successful. The goal of this class is to help students develop a professional portfolio to one day work in the television writing industry.
ENGL 130W. Advanced Poetry Writing. 3 Units
Prerequisite(s): ENGL 30A or ENGL 30C
Theory and practice in the writing of poetry at the advanced level. Consists primarily of the preparation and evaluation of student work. Students are also assigned supplemental readings designed to help them determine their affinity (or lack of affinity) with current poetic theory and practice.

ENGL 130Y. Creative Writing for Young Audiences. 4 Units
Term Typically Offered: Fall, Spring
In this creative writing course students will learn how to write children's literature in a wide array of genres, including picture book texts, early readers, poetry, and middle grade and young adult novels. The course will give an overview of these genres and through portfolio assignments allow students to sample different genres and gain expertise in one particular genre. Prerequisite ENGL 30A or ENGL 30C or ENGL 30B

ENGL 140A. Introduction to Old English. 4 Units
Term Typically Offered: Fall, Spring
Study of the grammar of Old English with particular attention to its survival in the modern language. Shows students how to use their instincts as native speakers of Modern English to acquire a good working sense of the original form of the language. Readings in biblical and historical texts will be supplemented by an introduction to Old English paleography which will allow students to access literature in the original.

ENGL 140B. Medieval Literature. 4 Units
Term Typically Offered: Fall, Spring
Survey of English literature from 1100 to 1500. Students will read texts from the various genres of Middle English literature—romance, lyric, ballad, lay, drama, history—in the dialects of origin. Focuses on how medieval thought both differs from and anticipates modern thought.

ENGL 140C. The English Renaissance. 4 Units
Term Typically Offered: Fall, Spring
The early modern period was a time of exploration, experimentation, and creativity during the sixteenth and early seventeenth centuries in England. The writers of the age include Queen Elizabeth I, Lady Mary Wroth, Sir Thomas Wyatt, Sir Philip Sidney, William Shakespeare, Christopher Marlowe, Edmund Spenser, John Donne, Aemilia Lanyer, and John Milton. In this course, students will explore and analyze representative works by these writers and others, making connections between the writers and the cultural context in which they lived.

ENGL 140E. Restoration & Eighteenth-Century Drama. 4 Units
Term Typically Offered: Fall, Spring
In-depth examination of the drama of late 17th and 18th-century England. Course includes the study of the age itself, the social and political issues of the time as well as its dramatic art, including many of its comedies, which the course it examines in their historical and cultural contexts.

ENGL 140F. British Literature, 1660-1780. 4 Units
Term Typically Offered: Fall, Spring
A period survey of British literature from the Restoration of King Charles II in 1660 through the stirrings of British Romanticism in the last decades of the eighteenth century. Authors to be covered will likely include Dryden, Behn, Rochester, Finch, Swift, Pope, Gay, Montagu, Addison & Steele, Gray, Johnson, Equiano, Goldsmith, and Sheridan.

ENGL 140G. The Eighteenth-Century British Novel. 4 Units
Term Typically Offered: Fall, Spring
The novel as we know it today was invented in the 18th century. Students study the cultural origins of the novel and read several major works by 18th-century novelists such as Daniel Defoe, Samuel Richardson, Henry Fielding, Fanny Burney, Ann Radcliffe, Laurence Sterne, and Jane Austen, among others.

ENGL 140H. Nineteenth-Century Novel. 4 Units
Term Typically Offered: Fall, Spring
Devoted to exploring the fiction of nineteenth-century British novelists from Jane Austen through Thomas Hardy. Particular attention is paid to prevalent genres, especially the mixing of romance and realism, narrative and plot structures, imagery patterns, character types and anti-types, and thematic concerns, which usually involve some sort of conflict between the self and society, the individual and institutions (or the environment).

ENGL 140I. The Victorian Imagination. 4 Units
Term Typically Offered: Fall, Spring
Examines British literature and culture during the late eighteenth and early nineteenth centuries. Topics may include war and revolution, tourism and the picturesque, genius and imagination, the Gothic, Romanic orientalism and literature and the environment. Writers covered may include Smith, Blake, Wollstonecraft, the Wordsworths, Scott, Coleridge, Austen, de Quincey, Byron, the Shelles, Hemans and Keats.

ENGL 140J. The Victorian Imagination. 4 Units
Term Typically Offered: Fall, Spring
Explores themes and forms of the Victorian period, stressing the evolving role of the artist and the growth of self-consciousness in verse and prose. Victorian themes like the divided self, the love-duty conflict, and the inevitable crises of faith are recurring problems in the obsessive Victorian debate between flesh and spirit. Analyzes this dialectic in the poetry of Browning, Tennyson, the Pre-Raphaelites and Decadents, in a representative novel, and in the prose of Ruskin, Mill, and Pater.

ENGL 140K. Modern British Literature, 1900-Present. 3 Units
Term Typically Offered: Fall, Spring
In-depth examination of some of the important British texts in fiction, poetry, and drama from 1900 to the present. The works dramatize the important historical, social and aesthetic changes in a century which saw the collapse of the British Empire, the spread of democracy, the rise of Modernism and the Absurd in the arts, and the continuing struggle of the personal statement in an impersonal world.

ENGL 140L. Modern British Fiction, 1900-Present. 4 Units
Term Typically Offered: Fall, Spring
Survey of British fiction from 1900 to the present which covers the struggle between traditional Realism and Modernism in the novel, the decline and fall of the British Empire and the rise of the former colonies as purveyors of fictions in English in their own right, and the development of new experimental forms in the last decades of the 20th century.
ENGL 140M. Modern British Drama, 1889-Present. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

In-depth examination of British drama from the arrival of Ibsen's A Doll's House on the British stage (and Shaw's publication of his influential treatise The Quintessence of Ibsenism), both laying to rest for serious artists the moralistic, bourgeois theater of the late 19th century. Includes study of various dramatic movements in Britain, including realism, absurdist, kitchen-sink naturalism, surrealism, epic theater, expressionism.

ENGL 140R. Renaissance Drama. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of English drama written in the period, roughly, from 1500-1660. Provides a survey of playwrights and genres from the entire period or a focus on a particular theme or a grouping of authors. Students will study texts as well as the historical, political, cultural, social, sexual, and religious contexts in which the playwrights of the era composed their works.

ENGL 140Z. Studies in British Literature. 4 Units
Term Typically Offered: Fall, Spring

Topics in periods and movements in the literature of Britain. Course may focus on a limited period (e.g. The Edwardian Age), a single author (e.g. Anthony Trollope or Margery Kempe), an authorial dialogue (e.g. Shakespeare and Wilde or G.M. Hopkins and Christina Rossetti), or a unique literary feature, theme, or structure (e.g. the Sonnet or Literature and the Law).

ENGL 141A. The Essential Shakespeare. 4 Units
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Exploration of Shakespeare's most representative works. The course syllabus usually includes his sonnets and non-dramatic poetry as well as plays from both early and later periods of his career. Class discussions will include Shakespeare's typical themes, conventions, and techniques, his development of character and situation, and his relationship to the culture and values of both his own and subsequent ages.

ENGL 141B. Shakespop: Shakespeare and Popular Culture. 3 Units
Term Typically Offered: Fall, Spring

The works of William Shakespeare circulate in our culture in a wide variety of ways - in music, art, dance, film, television, advertising, management manuals, self-help books, etc. sometimes staying close to the original texts and at other times barley skimming the surface for cultural capital. This course will examine the dynamic relationships between Shakespeare in its diverse forms and popular culture by examining various instances of Shakespearean appropriation and adaptation. Themes include Shakespeare in Love, War, Business, and Youth Culture.

ENGL 141A. Chaucer - Canterbury Tales. 4 Units
Term Typically Offered: Fall, Spring

Reading of The Canterbury Tales in Middle English. Chaucer's great unfinished poem will be investigated as the pinnacle of literary achievement in the English Middle Ages, a work that attempts, like Dante's Divine Comedy, to account for all the issues and problems of human life as medieval thinkers had come to regard them.

ENGL 145A. Chaucer - Canterbury Tales. 4 Units
Term Typically Offered: Fall, Spring

Reading of The Canterbury Tales in Middle English. Chaucer's great unfinished poem will be investigated as the pinnacle of literary achievement in the English Middle Ages, a work that attempts, like Dante's Divine Comedy, to account for all the issues and problems of human life as medieval thinkers had come to regard them.

ENGL 145B. Shakespeare - Early Plays, 1592-1600. 3 Units
Term Typically Offered: Fall, Spring

Exploration of representative plays from roughly the first half of Shakespeare's career as a dramatist, including early and middle comedies (e.g., A Midsummer Night's Dream, As You Like It), early and middle tragedies (e.g. Richard II, Henry IV, Part One), while situating the plays within their cultural and historical context.

ENGL 145C. Shakespeare - Later Plays, 1600-1612. 4 Units
Term Typically Offered: Fall, Spring

Exploration of representative plays from roughly the second half of Shakespeare's career as a dramatist, with emphasis on the major tragedies (Hamlet, Othello, King Lear, and Macbeth), but also including the middle comedies (e.g., Twelfth Night, Measure for Measure) and the later romances (e.g., The Winter's Tale, The Tempest), while situating the plays within their cultural and historic contexts.

ENGL 145I. John Milton. 3 Units
Term Typically Offered: Fall, Spring

Students study the major poems of Milton-among them Comus, "Lycidas," Paradise Lost, Paradise Regained, and Samson Agonistes-giving special attention to Paradise Lost. Students will also consider such prose works as Of Education, the divorce tracts, and Areopagitica, Milton's famous argument against censorship. Finally, it includes lectures on the Puritan Revolution of 1640-60 and Milton's role in it.

ENGL 145A. John Milton. 3 Units
Term Typically Offered: Fall, Spring

Students study the major poems of Milton-among them Comus, "Lycidas," Paradise Lost, Paradise Regained, and Samson Agonistes-giving special attention to Paradise Lost. Students will also consider such prose works as Of Education, the divorce tracts, and Areopagitica, Milton's famous argument against censorship. Finally, it includes lectures on the Puritan Revolution of 1640-60 and Milton's role in it.

ENGL 150A. Early American Literature. 4 Units
Term Typically Offered: Fall, Spring

Focusing on the literature of early American settlement, the literature that first defined our nation. Students analyze such works as oral literature of Native America, earliest writings of Spanish explorers, Puritan settlement literature, Captivity Narratives of the 17th through 19th centuries, Witchcraft Narratives, and Slave Narratives. Students might also study connections to later works (e.g., Puritan literature and Hawthorne's Scarlet Letter, Witchcraft narratives and Miller's The Crucible).

ENGL 150B. American Romanticism. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on one of the great periods in the history of literature. It has appropriately been called the American Renaissance. Writers covered might include but not be limited to Poe, Hawthorne, Emerson, Thoreau, Fuller, Melville, Whitman, Dickinson.
ENGL 150C. American Realism. 3 Units
Term Typically Offered: Fall, Spring
Examines American literature written during the period after the Civil War, a time of unprecedented change that transformed America from rural, agricultural, and homogeneous culture into its urban, industrial, heterogeneous counterpart. It investigates how the literature of this period reflected these changes and simultaneously tried to reconcile them with the values of an earlier America. The magnitude of this endeavor produced a remarkable literary heritage for the 20th century.

ENGL 150D. American Modernist Fiction, 1910-1950. 4 Units
Term Typically Offered: Fall, Spring
Survey of the important historical movements and conflicts in American literature, including the development of Realism and Naturalism, the experimental Modernist movement of the twenties, the populist literature of the thirties and the development of psychological realism in the forties.

ENGL 150E. American Poetry, 1910-1950. 4 Units
Term Typically Offered: Fall, Spring
Many scholars argue that American literature's greatest achievement in the twentieth century literature is in the genre of poetry. Offers a survey of such movements as the "New Poetry," Modernism, Imagism, Primitivism, and Postmodernism. Major figures will include, but not be limited to, Robinson, Frost, Eliot, Pound, Millay, Cummings, Stevens, W.C. Williams, Jeffers, Moore, and Hughes.

ENGL 150F. Contemporary American Fiction, 1950-Present. 3 Units
Term Typically Offered: Fall, Spring
Surveys American fiction in the decades immediately following World War II. These novels deal with themes such as exhaustion, social unrest, historical conspiracy, and political coercion. Representative figures include, but are not limited to, Ralph Ellison, John Barth, Philip Roth, Joan Didion, Thomas Berger, Vladimir Nabokov, Marilyne Robinson, Thomas Pynchon.

ENGL 150G. Contemporary American Poetry, 1950-Present. 4 Units
Term Typically Offered: Fall, Spring
Examines the richness of American poetry since World War II giving some consideration to the impact of recent world poetry brought to us by our skillful poet/translators.

ENGL 150H. Recent American Fiction, 1980-Present. 4 Units
Term Typically Offered: Fall, Spring
Introduction to the remarkable flowering of American fiction in the late decades of the twentieth century. The primary focus is to scrutinize a collection of novels for which there is no firmly established critical opinion but which are nonetheless distinguished fictional accomplishments. Emphasis is placed on revealing the diversity of voices and the ways in which these writers demonstrate the continuing possibilities for artistic variety and experimentation.

ENGL 150I. Modern American Short Story. 4 Units
Term Typically Offered: Fall, Spring
Since the publication of Washington Irving's "Legend of Sleepy Hollow," Americans have excelled at the genre of the short story. Offers a survey of traditional "masters" and recent innovators. Provides an opportunity to read a wide variety of writers (such as Wharton, Chopin, Crane, Gilman, James, Anderson, Hemingway, Faulkner, Ellison, O'Connor, Barth, Oates, Proulx, Roth, Carvey, and Welty), and examine a range of forms, themes and experiences that reflect and shape American culture.

ENGL 150J. Twentieth-Century American Drama. 4 Units
Term Typically Offered: Fall, Spring
In-depth examination of American drama, starting with Eugene O'Neill. Traces American drama from the early decades of the 20th century to the present, examining the plays themselves, their themes, dramatic idioms, stage craft and European influences in their social, historical and artistic contexts.

ENGL 150L. Lost Generation Writers. 4 Units
Term Typically Offered: Fall, Spring
Examines one of the most remarkable flowerings of literary achievement in American letters, the writing of "The Lost Generation," authors born between 1885 and 1900. Unified by a profound disillusionment with American culture after World War I, writers such as T.S. Eliot, Eugene O'Neill, William Faulkner, and Ernest Hemingway produced enduring modern masterpieces. In the process they demonstrated that their generation might find in art what had been lost on the battlefield.

ENGL 150M. California Literature. 4 Units
Term Typically Offered: Fall, Spring
Focuses on the California phenomenon, the place where the American Dream strives to reach fulfillment "because here," according to Sacramento-native Joan Didion, "beneath that immense bleached sky, is where we run out of continent" and how this phenomenon has captivated writers for centuries. Presents a cross-section of literary works (fiction, poetry, essays, etc.) while examining and interrogating various literary manifestations of California golden myths and grayer realities.

ENGL 150O. The American Gothic. 4 Units
Term Typically Offered: Fall, Spring
Explores American works written in the Gothic mode. In novels, captivity narratives, short stories, and poetry, we will investigate representations of terrifying, uncanny, and supernatural phenomena. As we trace the development of the Gothic mode in American literature, we will examine how narratives and poetic depictions of horror rehearse our individual and cultural fears about sexuality, race, violation, rebellion, madness, and death, and we will inquire into that thrill of macabre pleasure that attends the exploration of the darker side.

ENGL 150R. American Regionalism. 4 Units
Term Typically Offered: Fall, Spring
Examines literature by American regionalist writers during the late-nineteenth century. Topics may include nationalism, sectional divides, local color, dialect fiction, conditions of publication, and emerging women writers and writers of color. Students will investigate the role that regionalism plays in relation to literary representations that depict the conflicting and complex social, cultural, and historical formation of racialized and gendered identities. Independent-online project required.

ENGL 155E. Hemingway and Fitzgerald. 4 Units
Term Typically Offered: Fall, Spring
Intensive study of two of the most important American writers of the 20th century. Ernest Hemingway and F. Scott Fitzgerald. This focus on two authors allows students to read them in-depth, to examine the dynamics of their friendship, and to explore the similarities and differences in their responses to World War I and the Great Depression.
ENGL 165A. A Survey of Irish Literature. 4 Units
Term Typically Offered: Fall, Spring
Survey of Irish literature, beginning with various myths, moving through the bardic period and eighteenth and nineteenth centuries, and then centering upon the "Irish Renaissance" (1885-1940). Covers the genres of poetry, drama, and fiction, and representative figures include W.B. Yeats, Patrick Kavanagh, James Joyce, Flann O'Brien, John Synge, Lady Gregory, Sean O'Casey, Sean O'Faolain, and Frank O'Connor.

ENGL 165D. Postcolonial Literature. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Deals with the considerable body of Postcolonial literature written in English. Many of the writers come from countries of the former British Commonwealth, including Achebe, Desai, Emcheta, Naipaul, and Rushdie. It focuses on the literary, cultural and political environments in which the texts are situated and on their relationship to the wider tradition of literature in English.

ENGL 165F. Caribbean Literature. 4 Units
Term Typically Offered: Fall, Spring
Focuses on the literature--novels, shorts stories, poetry, and plays--by a wide range of Caribbean authors, among whom are two recent Nobel Prize winners, Derek Walcott and V. S. Naipaul. Students will learn to appreciate the cultural diversity of this post-colonial literature and will become familiar with its important themes and stylistic techniques. Students will also experience the multi-dialectal richness and flavor of the Anglophone Caribbean as expressed by authors from linguistically diverse islands.

ENGL 170A. Fantasy. 4 Units
Term Typically Offered: Fall, Spring
Helps students develop their own working definition of fantasy by examining its central narrative and dramatic structures, image patters, and thematic preoccupations. At the same time, encourages students to compare these motifs with those of so called "realist" fiction so they may understand how blurred conventional distinctions between "fantasy" and "reality" actually are.

ENGL 170B. Modern Poetry. 4 Units
Term Typically Offered: Fall, Spring
General course in English language poetry written in the late 19th and early 20th century poetry, a period of great innovation in poetry. It focuses on approach: what is the modern poem and how does one read it? Emphasis is placed on the function of image, voice, line break, rhythm, etc. Writers might include Whitman, Dickinson, Yeats, Pound, Eliot, Hardy, and Hopkins.

ENGL 170C. Introduction To Comedy. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Focuses on various comic genres and theories--from 4th century BC to the present. It examines romantic comedy, tragicoomedies, comedies of manners, of humors, of menace; farce, satire, slapstick. Students also read widely in comic theory, examining aspects psychological, phenomenological, aesthetic--in drama, fiction, poetry and prose.

ENGL 170D. Introduction To Tragedy. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Focuses on the literatures and theories of tragedy--from 5th century BC to the present--from Sophocles to Mamet, from Flaubert to Stoppard. It examines the "tragic vision" in light of individual genres, times, social mores, religious beliefs and expectations, using Aristotle for both its touchstone and lodestar.

ENGL 170E. Short Fiction. 4 Units
Term Typically Offered: Fall, Spring
Survey of the art of short fiction through readings of a variety of world writers. Representative figures include, but are not limited to, Melville, James, Chopin, Maupassant, Chekhov, Saki, Cather, Joyce, Kafka, Dinesen, Hemingway, Borges, O'Connor, Munro, Carver, Everett, Lahiri, etc.
ENGL 170N. Narrative Poetry. 4 Units
Term Typically Offered: Fall, Spring

Provides an introduction to the genre of narrative poetry, a historical survey of the vicissitudes of its reception from the nineteenth century to the present, and a close study of representative narrative poems by poets who have excelled in this mode.

ENGL 170Z. Twentieth-Century Fiction. 4 Units
Term Typically Offered: Fall, Spring

Study of twentieth-century fiction from a variety of ethnic and social backgrounds, including and moving beyond British Modernism. Readings explore English as a literary language used across the globe, ranging from Paris to Mazatlán, Calcutta to San Francisco.

ENGL 180A. Forms of African-American Poetry. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on four or more African-American poets, representing a historical succession of literary periods.

ENGL 180B. Forms of African-American Fiction. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on four or more African-American writers of fiction, surveying texts representing a historical succession of literary periods.

ENGL 180F. Major African-American Authors. 4 Units
Term Typically Offered: Fall, Spring

Employing a lecture-discussion format, involves studies in a single literary genre or a combination of literary genres emphasizing the work of three or fewer African-American authors.

ENGL 180H. American Identities: In the Intersection of Race, Gender, and Ethnicity. 4 Units
Term Typically Offered: Fall, Spring

Uses a team-teaching approach to sample a range of diverse American literatures. Texts are selected by the team to represent both mainstream and marginalized groups and to reflect the individual professors’ interests and expertise. Examines the commonalities that cross ethnic, racial, class, and gender boundaries as well as the differences that enrich our cultural identity. Independent, online project required.

ENGL 180J. Jewish American Literature. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Students will examine a rich tradition of Jewish American literature in the context of a complex American multicultural narrative. Topics include the immigrant experience, assimilation, alienation, responses to the Holocaust and other forms of anti-Semitism, the place of Israel in the Jewish American imagination, and a contemporary rediscovery of reconstruction of Jewishness and Judaism. Students will interrogate what constitutes Jewish American identity and defines its literature in a culture that is itself conflicted about its secular/religious ethos and the degree to which subjectivity is determined by “consent and/or descent.”

ENGL 180L. Chicano Literature. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Gives students an overview of Chicano Literature. Students examine both contemporary Chicano poetry and fiction.

ENGL 180M. Asian American Literature. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Designed to help students gain an understanding of the diversity as well as the similarities among various Asian American writers. How do the categories of race, gender, and class affect the way different characters construct their cultural experiences and fashion their personal identities? By studying the variety of processes through which different protagonists “become American”—through assimilation, appropriation, or “translation”—students should arrive at a better understanding of how we all construct our own identities.

ENGL 180Z. Topics in Multi-Ethnic Literatures. 4 Units
Term Typically Offered: Fall, Spring

Comparative analysis of two or more ethnic literary and cultural productions with an emphasis on relationships among history, politics, and culture in American, British, or World literatures.

Note: May be repeated twice for credit as topics vary.
ENGL 185B. Twentieth Century Fiction by Women. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Covers short stories and novels spanning the century and including women writers from a variety of nationalities, class, cultural and ethnic groups. Emphasizes what Virginia Woolf calls "the delicate transaction between a writer and the spirit of the age" and works with the writers presented so as to elicit the developing strands of influence and critique that bring these disparate writers into a common dialogue.

ENGL 185C. British Women Novelists. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the ways in which women writers of the 19th and 20th centuries concern themselves with questions of the differences in male and female experience and how those differences affect their writing. Students will study the portrayal in fiction of the evolution of the "modern woman"—with the conflicts between self and other, dependence and independence, love and power that are part of that process.

ENGL 185D. American Women Writers. 4 Units
Term Typically Offered: Fall, Spring

Focuses on women writers primarily from the early 20th century with an emphasis on how gender expectations affect people, society, novels, poems. Students study the theme of awakening, the roles that families, friends, class, social expectations and conditions play in the development of individuality and self-awareness. Examines implications of power relationships and certain areas of conflict, such as those between self and other, repression and expression, inner and outer, dependence and independence, love and power.

ENGL 185E. Chicana/Latina Women Writers. 4 Units
Term Typically Offered: Fall, Spring

Focuses on major Chicana and Latina writers of the 19th, 20th, or 21st centuries. Includes an analysis of Chicana and Latina novels, short stories, theater and/or poetry. Students develop analytical skills through class lectures, discussions, written assignments and readings.

ENGL 190D. Detective Fiction. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of crime and detective fictions (novels, short stories, plays, etc.). Crime fiction continually asks us what do we know about people and events and how do we know it. Investigates a variety of texts that address this desire to know and its connections to the mysterious and the criminal. Discussions of this popular genre will address the ways in which an obsession with crime and punishment manifests itself in various cultures and cultural moments.

ENGL 190H. The Supernatural in Literature. 4 Units
Term Typically Offered: Fall, Spring

Approaches supernatural literature from the perspective that, regardless of how bizarre or fantastical a literary work may seem, it deserves serious scholarly study because it represents the realism of apparent human experiences and provides readers with access to the inner workings of the human mind. Readings include Ambrose Bierce, H.P. Lovecraft, Edgar Allan Poe, Lord Dunsany, Fitz-James O'Brien, and contemporary writers from around the world.

ENGL 190J. Tolkien: Lord Of The Rings. 4 Units
Term Typically Offered: Fall, Spring

Helps students understand the primary structures, images, and themes informing Tolkien's Middle Earth and the ways these link the medieval worldview with modern, and even postmodern, wish-and-fear-fulfillments. Students will read Tolkien's criticism, poetry, short tales, The Hobbit, The Lord of the Rings trilogy, and selections from The Silmarillion.

ENGL 190P. Popular Literature and Culture. 4 Units
Term Typically Offered: Fall, Spring

The study of popular texts through the various lenses of literary analysis. Students will work with a variety of texts, which might include genre fiction, graphic novels and comics, film and television, and other digital media, to consider the ways and whys of their popularity, as well as their impact, both historical and contemporaneous, on literature, audience, and culture.

ENGL 190Q. LGBTQ Literature. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of literature by and about lesbian, gay, bisexual, transgender, and queer creators. Students will work with a variety of texts (fiction, poetry, film, nonfiction) about LGBTQ identities; students will also come to understand the historical contexts and shifting theoretical paradigms that have shaped and reshaped conceptions of sexuality.

ENGL 190R. Romance Fiction. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of romance fictions (primarily novels). Romances continually promise emotional (and sexual) fulfillment, but what do readers of romance novels get from this reading experience? Discussions of this popular genre will address the ways in which the pursuit of love and companionship and the indulgence in lust and passion manifest themselves in various cultural moments; critical materials will help theorize the appeals, dangers, and uses of romance fiction.

ENGL 190V. Great Drama on Video. 4 Units
Term Typically Offered: Fall, Spring

Studies and evaluates a selection of dramas on videos (such as but not limited to A Streetcar Named Desire, Death of a Salesman, Doll's House, Hamlet, Oedipus, Pygmalion, and Rosencrantz and Guildenstern) and core texts (Sculpting in Time: Tarkovsky The Great Russian Filmaker Discusses His Art, Truffaut by Truffaut, and Staring Point by Hayao Miyazaki).
ENGL 191A. Masterpieces of the Cinema. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Conducted by lecture and discussion. Students see a selection of the best, most enduring, most influential films made during the last hundred years and explore the historic, aesthetic, and philosophical reasons these films have generally been acknowledged as masterpieces.

ENGL 195A. Writing Center Theory and Practice: Internships. 4 Units
Term Typically Offered: Fall, Spring

Provides interns with an opportunity to apply tutoring principles while working at tutors in the writing center.
Note: ENGL 195A is a paired course with ENGL 410A, which meets at the same time in the same room. The graduate level class has a significantly increased reading, writing, and research component. May be repeated for up to 8 units of credit.
Credit/No Credit

ENGL 195C. Internship In Field Work. 4 Units
Term Typically Offered: Fall, Spring

Work experience in an area related to the English major. Credit/No Credit
Credit/No Credit

ENGL 195W. Writing Programs Internship. 4 Units
Term Typically Offered: Fall, Spring

This course is paired with an internship with the University Writing Programs or a Community Engagement Center partner organization during which students apply knowledge of writing, editing, design, copy editing, and production in the professional workplace. Students define the learning goals and objectives specific to their internships by writing a learning agreement, and in a portfolio presented to the class they examine the extent to which they met the learning objectives outlined in the learning agreement.
Note: May be repeated for credit if topic of internship differs.

ENGL 197I. Film - Depression Giggles. 4 Units
Term Typically Offered: Fall, Spring

A semester of films, readings, and discussions focused on what is often called the “Golden Age of Hollywood,” the 1930s and early 1940s. Classes will study as well the studio era, the star system, the development of cinematic genres, and censorship under the Production Code—both when it was more strictly enforced [1934-after] and when it was not before and after 1930-1934.

ENGL 197J. Film - Alfred Hitchcock. 4 Units
Term Typically Offered: Fall, Spring

Students see a selection of films adapted from novels, short stories, or other literary works; read the original work from which the film was adapted; and explore the history, aesthetics, and craft of adapting fiction to film.

ENGL 197L. The American Film. 4 Units
Term Typically Offered: Fall, Spring

Focus on American films. Topics may cover a range of periods, movements, genres, styles, and themes.

ENGL 197M. Recent American Films. 4 Units
Term Typically Offered: Fall, Spring

Emphasizes the trends, themes, forms, and cinematic techniques, technological advances, and "revisionist" genres of recent American films of approximately the last twenty years, partly as a way of analyzing the American film conventions, partly as a means of examining our contemporary culture, but primarily as a means of analyzing and understanding the films themselves.

ENGL 197N. British Film. 4 Units
Term Typically Offered: Fall, Spring

Screenings and analysis of films produced in Great Britain. Students will view a variety of British films, starting possibly with silents and early Hitchcock and ending with films from the contemporary moment. Students will come to understand the historical and artistic contexts of the films and encounter the shifting definitions of what represents "British" on the screens of the cinema and in the minds of viewers. May provide a survey of films or focus on particular themes, studios, or directors.

ENGL 197R. Films Of Alfred Hitchcock. 4 Units
Term Typically Offered: Fall, Spring

Traces Hitchcock's "game with the audience" from its beginnings in silent films, through its British period, to its American conclusion. It closely examines important sequences, shots, images, character types, and themes. Students will view several of Hitchcock's classic films in their entirety.

ENGL 198T. Senior Seminar In English. 4 Units
Prerequisite(s): ENGL 120A and a minimum of 90 units.
Term Typically Offered: Fall, Spring

Features specialized topics taught by a variety of instructors depending upon the semester. Topics can include subject matter from literature, linguistics, English education, creative writing, composition/rhetoric, and film. Tend to the production of a significant research paper, a paper which will emphasize the student's ability to: evaluate, assess, and interpret multiple texts; integrate primary and secondary sources; construct a sustained, coherent, and rhetorically sophisticated piece of writing.
ENGL 198X. Senior Portfolio. 2 Units
Prerequisite(s): ENGL 120A, at least 80 units, and one of the following:
Term Typically Offered: Fall, Spring

In this course, students, as one element of their capstone experience, will reflect on their work in their classes and portfolio projects; the English major, its structure, curriculum, and values; their career goals and life-long learning; and the meanings of education and literacies in the academy and popular cultures. Students will edit and finalize their senior portfolio.
Note: On-line course
Credit/No Credit

ENGL 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.
Credit/No Credit

ENGL 200. Methods and Materials of English Studies. 3 Units
Term Typically Offered: Fall, Spring

Required for all MA candidates in English.

ENGL 200A. Methods and Materials of Literary Research. 4 Units
Term Typically Offered: Fall, Spring

Required of all MA candidates in English under Plans A and C and Creative Writing Plan B, acquaints students with principal sources and techniques of literary research. It also introduces students to contemporary critical approaches to literature. Students should take this course as early as possible in their graduate careers, preferably in the first semester. Students prepare an annotated bibliography and a paper employing a particular critical approach to one of a selection of anchor texts.
Note: Graduate Writing Intensive (GWI) course.

ENGL 200D. Materials and Methods of TESOL Research. 3 Units
Term Typically Offered: Fall, Spring

Explores research design and testing methods for quantitative and qualitative research in second language acquisition (SLA). Students develop the ability to read second language acquisition research critically; study a variety of theoretical perspectives represented in current SLA research; and review the history of the current "burning issues" in SLA.
Note: Graduate Writing Intensive (GWI) course.

ENGL 200E. Curriculum and Assessment Design for Language Classrooms. 3 Units
Term Typically Offered: Fall, Spring

Examine the interplay between curriculum design and classroom assessment. The goals are 1) to familiarize prospective teachers with the terminology and practices underlying curriculum design and classroom assessment; 2) to develop the ability to analyze student needs and propose appropriate changes to curricula; and 3) to construct and implement language tests that reflect curricula.
Note: May be counted as an elective for the M.A. TESOL program.

ENGL 201D. Contemporary Theory. 4 Units
Term Typically Offered: Fall, Spring

Introduces students to the place of theoretical texts in literary studies and engages with theory through a survey of approaches and/or a thematic inquiry; examples of thematic approaches might include but are not limited to formalism and new formalism, critical race studies, theories of poetics, and the linguistic turn.

ENGL 210A. Reading/Vocabulary Acquisition. 3 Units
Term Typically Offered: Fall, Spring

Examines the psycholinguistic bases of the reading process in ESL, including age; and the role of formal instruction and error correction.

ENGL 210B. Sociolinguistics and TESOL. 3 Units
Term Typically Offered: Fall, Spring

Prepares language teachers to effectively integrate technology into classrooms. Examines theoretical rationales for using computer-assisted language learning, the range of uses of technology in classrooms, and best practice. Develops students' technological literacy and ability to critically evaluate computer-assisted language teaching materials. Cross Listed: ENGL 110C; only one may be counted for credit.

ENGL 210C. Technology in Second Language Teaching. 3 Units
Term Typically Offered: Summer only

Prepares language teachers to effectively integrate technology into classrooms. Examines theoretical rationales for using computer-assisted language learning, the range of uses of technology in classrooms, and best practice. Develops students' technological literacy and ability to critically evaluate computer-assisted language teaching materials. Cross Listed: ENGL 110C; only one may be counted for credit.

ENGL 210G. Second Language Acquisition. 3 Units
Prerequisite(s): ENGL 200D.
Term Typically Offered: Fall, Spring

Examines the factors affecting the acquisition of a second language, focusing on research in this area since 1970. Topics covered are: transfer and the role of the first language; developmental sequences; the role of input, interaction and output; cognitive and personality variables, including age; and the role of formal instruction and error correction.

ENGL 215A. Reading/Vocabulary Acquisition. 3 Units
Term Typically Offered: Fall, Spring

Preparation of teachers of English to speakers of other languages. Examines the psycholinguistic bases of the reading process in ESL, provides opportunities for seminars to test reading practices in peer demonstrations, and explores the fundamentals of testing, evaluation, and syllabus design in the ESL curriculum. Particular attention for reading and vocabulary will be given to miscue analysis and acquisition theory.

ENGL 215B. ESL Writing/Composition. 3 Units
Term Typically Offered: Fall, Spring

Provides the groundwork to prepare teachers of English to speakers of other languages for composition instruction. An examination of the theoretical bases of language acquisition, composing process, and correction/review strategies that will enable students to plan and demonstrate writing lessons to their peers. Consideration of traditional tests of writing, such as the TOEFL, the WPJ, and innovative forms of evaluation are integrated with syllabus design and text evaluation.
ENGL 215C. Pedagogical Grammar for TESOL. 3 Units
Term Typically Offered: Fall, Spring
Examines those areas of English grammar that are typically taught to non-native speakers. The goals are 1) to familiarize prospective ESL teachers with terminology and analyses that can be used in the classroom; 2) to develop the ability to explain and exemplify grammatical phenomena in terms accessible to ESL students; 3) to review sample materials and techniques for teaching English to non-native speakers.

ENGL 215D. Pedagogy of Spoken English. 3 Units
Term Typically Offered: Fall, Spring
Examines aspects of spoken English that are typically taught to non-native speakers. The goals are 1) to familiarize prospective ESL teachers with terminology and analyses that can be used in the classroom; 2) to develop the ability to analyze student difficulties and provide appropriate help; 3) to review sample materials and techniques for teaching spoken English to non-native speakers.

ENGL 220A. Teaching College Composition. 4 Units
Term Typically Offered: Fall, Spring
Designed for prospective community college and university writing instructors. It focuses on theory and research in rhetoric, composition, and cognitive development and on practical, pedagogical classroom strategies. Students discuss a variety of theories and research studies and then apply writing theory to classroom strategies, design lessons, assignments, and syllabi, and practice analyzing and responding to student writing; and prepare a teacher portfolio.
Note: Graduate Writing Intensive (GWI) course.

ENGL 220C. Topics in Composition Studies. 4 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 220A
Rotating series of topics relevant to composition studies. Regardless of the topic, students will explore the history of the field, the theory and practice of the field, the major scholarly works of the field, and the relationship of the field of study to the broader field of composition and rhetoric.

ENGL 220D. Teaching and Composition Research. 4 Units
Term Typically Offered: Fall, Spring
Examines the history and current status of research methods and methodologies in Composition Studies. It explores both producing and consuming research – studying how and why research has been conducted and how it has been understood and put to practical use by readers of composition research.

ENGL 220R. Professional Writing. 4 Units
Term Typically Offered: Fall, Spring
Examines theories that inform the practices of professional writers and applies theoretical principles to some common professional writing genres used in career fields ranging from business to public relations to nonprofit management. Focuses on how business or technical communication is different from academic styles and introduces students to the current writing challenges and practices in these fields.

ENGL 220R. Topics in Rhetorical Theory and Practice. 4 Units
Term Typically Offered: Fall, Spring
Designed to help students learn about and apply rhetorical theory. Its goal is to introduce graduate students to the history and theory of rhetorical movements after—or outside of—the rhetorics of Western antiquity. Evaluation will be based on weekly journal responses to readings, a major paper on rhetorical theories, and a course portfolio.

ENGL 220W. Writing in Your Discipline. 3 Units
Prerequisite(s): Graduate GWAR placement Score of 40 or a GWI course grade of "B-" or lower
Term Typically Offered: Fall, Spring
Writing workshop course designed to immerse graduate students in the discourse of their disciplines; required for graduate students who have received a 3 unit placement on the Writing Placement for Graduate Students (WPG). Focuses on the writing process, text-based academic writing in various academic genres, revising, and editing. Students will produce 5000 words. Includes assessment via Course Portfolio.

ENGL 222. Understanding Multidisciplinarity in Writing Studies. 1 Unit
Term Typically Offered: Fall, Spring
The discipline of Writing Studies has roots in a number of areas of scholarly inquiry. Some disciplines that have contributed to the development of the field include Literary Studies, Linguistics, Communications, Information Technology, Philosophy, Library Science, Psychology, and Education. In this course, students will evaluate a theory or concept presented in a discipline outside of Writing. Required for students in the MA in Composition, Rhetoric, and Professional writing who are taking an ENGL 215B or another three-unit elective.

ENGL 225A. Theories of Teaching Literature. 3 Units
Term Typically Offered: Fall, Spring
Introduction to theories of teaching literature so students who intend to teach at the college level have examined their assumptions and options before they develop their teaching practices. Organized around three questions: Why do we teach literature? What do we teach? How do we teach?

ENGL 225C. Theoretical Issues in Adult Literacies. 3 Units
Term Typically Offered: Fall, Spring
Introduces students to current theories surrounding the pedagogies and politics of adult literacies within a wide variety of contexts, including community colleges, prisons, and community projects. Incorporates information on technological literacies, information literacies, cultural literacies, and multiliteracies. In addition, students will be partnered with community literacy experts and required to complete formal observations of adult reading classrooms throughout the semester, fostering collaboration between the local community and the university. Cross-listed: EDTE 225C; only one may be counted for credit.

ENGL 230A. Writing Fiction. 4 Units
Term Typically Offered: Fall, Spring
Seminar in the workshop format designed for experienced writers of fiction. It is designed to provide intensive instruction in the theory and craft of writing short stories, novels, and screenplays.
ENGL 230B. Advanced Poetry Writing. 4 Units
Term Typically Offered: Fall, Spring
Theory and practice in the writing of poetry. Consists primarily of the preparation and evaluation of student work. Students are also be assigned supplemental readings designed to help them determine their affinity (or lack of affinity) with current poetic theory and practice.

ENGL 230D. Meter and Rhythm. 4 Units
Term Typically Offered: Fall, Spring
In-depth study of prosody including the principles of meter (line measurement) and scansion (the marking of stressed and unstressed syllables to determine meter and rhythm), as well as examining the relationship of these principles to verse in English. Examines a variety of poetic schemes, tropes, and forms. Lecture and guided practice.

ENGL 230E. Writing and Theorizing Memoir. 4 Units
Term Typically Offered: Fall, Spring
Examines the craft of writing memoir and creative nonfiction as well as the theory and history of contemporary memoir writing. Students will write and workshop their own memoirs and creative nonfiction. Introduces students to literary and philosophical theories of memory and writing as well as look at contemporary memoirs written in a variety of styles.

ENGL 230G. Between Genres: Flash Fiction/Prose Poetry. 4 Units
Term Typically Offered: Fall, Spring
English 230G offers graduate poets and fiction writers the opportunity to explore/experiment with the long-standing anti-genre of the poetry/fiction hybrid. For 200 years writers around the world have noted the symbiosis between the genres of poetry and prose. Currently, some of America's most exciting writers are currently exploring the margins between prose poetry, flash fiction, and related evolving forms.

ENGL 230X. Master Class in Writing Fiction. 4 Units
Prerequisite(s): ENGL 130A, or ENGL 130M, or ENGL 130N, or ENGL 230A or instructor permission.
Term Typically Offered: Fall, Spring
Workshop provides intensive instruction in the theory and craft of writing fiction designed for students who are already writing at a professional or near-professional level, and for those who have proven themselves ready to take advanced study with careful, individualized direction of the instructor.
Note: May be repeated once for credit.

ENGL 230Y. Master Class in Writing Poetry. 4 Units
Prerequisite(s): ENGL 130B or ENGL 230B or instructor permission.
Term Typically Offered: Fall, Spring
Designed to provide intensive practice in the techniques and problems of writing poetry. It is aimed at students interested in creative writing, those who have already done significant work and who have proven themselves ready to take advanced study with careful individualized direction of the instructor.

ENGL 240. British Literature. 3 Units
Term Typically Offered: Fall, Spring
Seminars in British literature.

ENGL 240A. Chaucer. 4 Units
Term Typically Offered: Fall, Spring
Investigation of the body of Chaucer’s poetry, seen against the backdrop of the late 14th century.

ENGL 240B. The World and the Flesh: Victorian Fiction. 4 Units
Term Typically Offered: Fall, Spring
Explores the Divided-Self of Victorian fiction, a consciousness split between word and flesh, duty and love, society and the self, or most generally between one’s public role and one’s private needs. Such polar themes affect several fictional genres such as the Pastoral, Gothic, Bildunsroman, Historical Novel and Naturalism. The word and flesh dialectic also informs the narrative structure of Victorian fiction.

ENGL 240E. 18th-Century Novelists. 4 Units
Term Typically Offered: Fall, Spring
Focuses on individual novelists, pairs of novelists, or thematic groupings. Might include works of fiction by authors such as Behn, Defoe, Richardson, Fielding, Sterne, Goldsmith, Bunyem.

ENGL 240F. Dickens+Thackeray. 4 Units
Term Typically Offered: Fall, Spring
Dickens and Thackeray dominated the popular mind as the novelists of the age; no other novelists are more representative of their age and yet can claim to have risen above it. Concentrates on just a few of their novels. Students study the writers and their novels in the context of English society in the 19th century.

ENGL 240G. Yeats, Kavanagh and Heaney: Ireland's Modern Irish Poets. 3 Units
Term Typically Offered: Fall, Spring
Yeats, often considered a modernist and a poet in the British tradition, saw himself primarily as an Irish poet working within distinctly Irish literary traditions. Focuses on Yeats’ conception of a national, ethnic poetry and the effect that mission had on Ireland’s other two major 20th century poets—Kavanagh and Heaney. Students analyze Yeats’ most influential work; Kavanagh and Heaney are studied in terms of their debt to Yeats and their individual expressions of national consciousness.

ENGL 240H. DH Lawrence. 3 Units
Term Typically Offered: Fall, Spring
Lawrence was immensely original. Like Tolstoy and Dostoevsky, Lawrence is a prophetic visionary intensely concerned to articulate and embody an all-embracing, profoundly existential, vision of life. Examines Lawrence’s work closely after a brief exploration of modernism and Lawrence’s relation to it and an examination of how conditions in post-Victorian England and events in Europe in the early 20th century contributed to the making of Lawrence’s world view and his role as a controversial outsider.

ENGL 240I. Jane Austen. 4 Units
Term Typically Offered: Fall, Spring
Focuses on Jane Austen, perhaps England’s greatest novelist. Students read almost all of her work and trace the development of her art from her teenage years until her death in 1817, noting how each new book is a distinct departure from previous ones.
ENGL 240J.  James Joyce.  
Term Typically Offered: Fall, Spring  
3 Units

James Joyce is a monument among twentieth century writers. His masterful Ulysses and other intricate works have kept generations of critics in business. Examines his major fictions, studying them in relationship to the life out of which they grew.

ENGL 240K.  English Renaissance Drama.  
Term Typically Offered: Fall, Spring  
3 Units

Sense of exploration, discovery, experimentation, creativity, and moral complexity of the Renaissance era in England (roughly 1550 to 1660) is reflected in the variety and number of plays written by Shakespeare's predecessors, contemporaries, and successors. Following introductory material on the development of the drama in England, students analyze Elizabethan and Jacobean playwrights, exclusive of Shakespeare. Emphasis is on the forms and themes of the plays, with application of "New Historicism" and attention to Renaissance backgrounds.

ENGL 240L.  Conrad and Greene.  
Term Typically Offered: Fall, Spring  
3 Units

When English critic F.R. Leavis declared that the great English novelists were Austen, Eliot, James, and Conrad, he emphasized these writers' intensely moral pre-occupation. No modern novelist has been more influenced by Conrad than Graham Greene, whose work has the same romantic subject matter and concerns with ethical judgments. Both writers are concerned with the question: to act or not to act, for either choice has inescapable ethical consequences.

Term Typically Offered: Fall, Spring  
4 Units

Examines the origins and development of the Gothic Novel in England. Attention is paid to recurring structures and themes such as architecture, the use of a narrative frame, reader identification figure, the divided self, the relationships between sex, violence, and death, the wasteland motif, and existential concerns. Special attention is given to the role of the reader and his or her response to the novels.

ENGL 240N.  Arthurian Literature.  
Term Typically Offered: Fall, Spring  
4 Units

Study of Arthurian literature in the Middle Ages from its origins to Thomas Malory, as well as some coverage of reception history.

ENGL 240O.  Satire In Age Swift+Pope.  
Term Typically Offered: Fall, Spring  
3 Units

ENGL 240R.  Charles Dickens.  
Term Typically Offered: Fall, Spring  
4 Units

Examines the major narrative, plot, and genre structures, image patterns, and thematic preoccupations in Dickens' novels, like the interrelationships between homes, prisons, factories and schools. The influences of Dickens' life, periodical publishing of illustrated magazines, and of Victorian society also receives attention. Introduces students to relevant insights of several "post-structural" critical schools, including those of deconstruction, the carnivalesque, liminality, and Lacanian psychology.

ENGL 240S.  Modern Irish Fiction.  
Term Typically Offered: Fall, Spring  
3 Units

Examines in detail one aspect of the Irish Renaissance (approximately 1880-1940)--Ireland's contribution to fiction in the twentieth century. Also examines not only individual writers and works but the development of the genres of the novel and short story and movements such as realism, naturalism, modernism, and post-modernism. Writers might include Joyce, O'Brien, O'Flaherty, O'Faolain, and others.

ENGL 240T.  Renaissance Literature.  
Term Typically Offered: Fall, Spring  
4 Units

Students will explore the poetry, prose, and drama produced in England during the 16th and 17th centuries. Contemporary criticism and theory will provide a context for reading these primary works.

ENGL 240U.  Nineteenth-Century Texts and Sex.  
Term Typically Offered: Fall, Spring  
4 Units

Examines a range of sexual identities through which nineteenth-century Britons imagined their lives. Such identities were influenced by ideas about race, class, status, ethnicity, gender, and age that often differed markedly from our own. Moves beyond the literary to look at texts from a variety of genres (medical, literary, erotic, and autobiographical) and cover both well-treated and more obscure texts.

ENGL 240V.  Contemporary British Fiction--1980 to Present.  
Term Typically Offered: Fall, Spring  
4 Units

Students read and study British works of fiction—novels and short stories—written after 1979. Although the choice of authors and works might vary from one semester to another, focuses on works of fiction deemed significant and valuable by literary scholars and critics.

ENGL 240W.  Special Topics in British Literature.  
Term Typically Offered: Fall, Spring  
4 Units

Open to the investigation of either a limited period (e.g. World War I poets or Victorian Children's literature), a single author (e.g. Hanif Kureishi or Aphra Behn), an authorial dialogue (e.g. Chaucer & Spenser, Stoppard and Shakespeare, Sidney & Wroth), or a unique literary feature, theme, or structure (e.g. Pastoral & Georgic or Empire & Race).

ENGL 245A.  Shakespearean Romance.  
Term Typically Offered: Fall, Spring  
3 Units

ENGL 250A.  Wharton and Cather.  
Term Typically Offered: Fall, Spring  
3 Units

Focuses on the writing of Edith Wharton and Willa Cather, two of our most accomplished early American writers. Shows how these writers, poised on the threshold of the twentieth century and pulled simultaneously forward and back-explored similar themes, and how, as two of the few revered women writers of this time, they focused particularly on shifting gender roles; Wharton with her eye on interior space and Cather with her eye on exterior space.

ENGL 250D.  Hawthorne and Melville.  
Term Typically Offered: Fall, Spring  
3 Units

Readings and discussion of major works by Hawthorne and Melville.
ENGL 250F. Whitney and Dickinson. 4 Units
Term Typically Offered: Fall, Spring

This seminar on two of America's greatest poets, Whitney and Dickinson, focuses primarily on the poetry, but also on letters and prose pieces. Students read and discuss criticism on each writer, and study cultural and historical contexts of these two contemporaneous but antithetical poets. Study includes traditional and feminist studies of Dickinson and Cultural Studies of Whitney. Forms a dialogue between these two remarkable and remarkably different poets; students join in that dialogue.

ENGL 250H. American Realism. 4 Units
Term Typically Offered: Fall, Spring

Between the end of the Civil War and the outbreak of World War I, there was an unprecedented and transforming social and cultural change in American life. During this time, literature also radically contributed to ideas about the nature of fiction, the reality it represented, and its effects on readers. Students will study the historical development of realism in literature and the current status of theories of literary realism.

ENGL 250J. Henry James. 4 Units
Term Typically Offered: Fall, Spring

James' innovations in narrative technique paved the way for the emergence of the modern novel; his development of a theory of fiction helped establish an American literary tradition and bring the American novel into the mainstream of British and European literature. Students read James' major works of fiction and criticism with an eye to understanding and enjoying them and to assessing the nature of the writer's contribution to the novel as a serious art form.

ENGL 250K. Contemporary American Fiction. 3 Units
Term Typically Offered: Fall, Spring

Studying contemporary fiction involves challenges and pleasures. Unlike studies in most areas of literature where the best writers have been clearly established, studying contemporary fiction means risking one's own critical skills to identify what new texts and writers are significant without the help of earlier generations of scholars and critics.

ENGL 250L. American Women Writers. 3 Units
Term Typically Offered: Fall, Spring

Focuses on the contributions of women writers to American literature. Begins with a brief overview of feminist critical approaches and of the history of women writing in America. Close critical analysis of texts focuses on four or five writers from various centuries, regions, and ethnic groups. Covers such writers as Toni Morrison, Sarah Jewett, Marilynne Robinson, Eudora Welty, Lee Smith, Leslie Silko, and others. Students work collaboratively to present background information and critical approaches to the writers.

ENGL 250P. Wharton and Chopin. 3 Units
Term Typically Offered: Fall, Spring

Growth of a feminine perspective in literary theory has resulted in a radical reconsideration of the American literary canon, producing new readings of texts, patterns in literature and culture, and connections between texts. Wharton and Chopin are two writers taking a place of importance in the development of the realistic novel in America and in the creation of a distinctive tradition of women's literature. Focuses on the heuristic possibilities of a distinctly different literature by women, the role of gender, and the contributions of Wharton and Chopin to the novel.

ENGL 250Q. Irish-American Fiction. 3 Units
Term Typically Offered: Fall, Spring

Examines the theme of immigration and that of assimilation in a particular ethnic group: Irish-Americans. Through an examination of the literature, we find an ethnicity that is uneasily part of the American fabric and one defined to a large degree by the culture they either abandoned or were forced to abandon. Representative writers include Eugene O'Neill, Alice McDermott, William Kenney, Mary Gordon, John Gregory Dunne.

ENGL 250R. Wm. Faulkner: Major Fict. 3 Units
Term Typically Offered: Fall, Spring

Examines the major works of William Faulkner, one of the most extraordinary writers in American literature. Students read and discuss criticism on each writer, and study cultural and historical contexts of these two contemporaneous but antithetical writers. Forms a dialogue between these two remarkable and remarkably different writers; students join in that dialogue.

ENGL 250S. African-American Fiction. 3 Units
Term Typically Offered: Fall, Spring

Examines the theme of immigration and that of assimilation in a particular ethnic group: African-Americans. Through an examination of the literature, we find an ethnicity that is uneasily part of the American fabric and one defined to a large degree by the culture they either abandoned or were forced to abandon. Representative writers include James Baldwin, Ralph Ellison, and Toni Morrison.

ENGL 250T. Postmodern Fiction. 3 Units
Term Typically Offered: Fall, Spring

Study of important recent fiction that has come to be referred to as "postmodernist" because its non-traditional themes, subject matter, and narrative technique embody or reflect the postmodern era.

ENGL 250U. Roaring Twenties Literature. 3 Units
Term Typically Offered: Fall, Spring

Focus on literature dramatizing the roaring, irrepressible twenties, a decade of unprecedented change following the "Great War to end all wars." Highlighting Fitzgerald, whose life mirrors the times, also includes other "expatriate" writers such as Wharton, Dos Passos, Stein, Eliot, and Hemingway, who looked at America from an overseas perspective and reflected on the changes in communication, sensibility, and values resulting from the new freedom of this revolutionary, liminal period.

ENGL 250V. Cultural Studies. 4 Units
Term Typically Offered: Fall, Spring

Surveys the range of contemporary cultural phenomena and the relevant modes of analysis currently employed in Cultural Studies with a focus on literary production and cultures.

ENGL 250W. The Poetry of T.S. Eliot. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the poetry of T.S. Eliot, one of the dominating figures of English and American literature for a substantial part of the twentieth century. In 1948 he received the Nobel Prize for Literature, and by 1950 his authority had reached a level that seemed comparable in English writing to that of figures like Johnson and Coleridge. Offers students the opportunity to analyze and discuss Eliot's poems. We will trace his poetic/aesthetic development from his early poems("Prufrock" et al.)

ENGL 250Z. Special Topics in American Literature. 4 Units
Term Typically Offered: Fall, Spring

The investigation of either a limited period (e.g. The Transcendental period or the Novel of the 1960s), a single author (e.g., Philip Roth or Toni Morrison), or a unique literary feature or structure (e.g. Literary Naturalism or the Experimental Novel).
ENGL 260A. Myth Criticism. 3 Units
Term Typically Offered: Fall, Spring
Introduces and traces through several literary works and genres the fundamental topics in myth criticism; significance of ritual, fairy tales, and archetypal romance forms; contributions of Freudian, Lacanian, and Jungian psychology and their relation to Joseph Campbell's notion of the monomyth; relevance of Victor Turner's "liminal" theories of rites of passage in anthropology; importance of recent discoveries with the bicameral and "triune" brain in biological sciences; kinds of myth (hero, heroine, American, love, wasteland, artist, time); and relationships between myth criticism and post-structuralism.

ENGL 260D. Literature and Biography. 3 Units
Term Typically Offered: Fall, Spring

ENGL 265A. Postcolonial Literature. 3 Units
Term Typically Offered: Fall, Spring
Focuses on contemporary literary works from postcolonial locations such as Africa, Australia, South Asia, Canada and the Caribbean. Explores the relationships between literary texts and the historical and social contexts from which they arise; especially European colonialism.

ENGL 275. Seminar in Literary History. 3 Units
Term Typically Offered: Fall, Spring
Literary history designed to introduce the graduate student to bibliographical materials necessary to the successful pursuit of advanced study in English. It will deal with the major historical periods of English and American literature, and looks briefly at the major European traditions.

ENGL 280A. Aesthetics of Minority Literature. 4 Units
Term Typically Offered: Fall, Spring
This course examines African American literature and film. Focusing on the emergence of a distinctly black modernist and post-modernist literary discourse, we will also study how neo-slave narratives illuminate the difficulties of comparative freedom and the legacies of Caribbean and American slaveries and oppression.

ENGL 280B. The Ethics of Black Verbal Aesthetics. 4 Units
Term Typically Offered: Fall, Spring
This course introduces the advanced study of black verbal aesthetics in the novels of Ralph Ellison (the dozens), Toni Morrison (folktales), Colson Whitehead (call and response), the poetry of Harryette Mullen (diasporic blues/jazz improvisation), and others. Exploring black verbal aesthetics and sonic technologies, we will investigate how the these authors above (as well as James Baldwin and Amiri Baraka) treat verbal expressive arts as sites of hidden knowledge, subversion, and everyday politics that centralizes black life and culture.

ENGL 280J. Jewish American Literature. 3 Units
Term Typically Offered: Fall, Spring
Students will examine a rich tradition of Jewish American literature in the context of a complex American multicultural narrative. Topics include the immigrant experience, assimilation, alienation, responses to the Holocaust and other forms of anti-Semitism, the place of Israel in the Jewish American imagination, and a contemporary rediscovery or reconstruction of Jewishness and Judaism. Students will interrogate what constitutes Jewish American identity and defines its literature in a culture that is itself conflicted about its secular/religious ethos and the degree to which subjectivity is determined by "consent and/or descent.

ENGL 280T. Prose Style in Literature. 3 Units
Term Typically Offered: Fall, Spring

ENGL 297A. Prose Style in Literature. 3 Units
Term Typically Offered: Fall, Spring

ENGL 299. Special Problems: English Tutorial. 1 - 3 Units
Prerequisite(s): ENGL 200.
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Highly recommended for, and open only to, students who are able to carry on individual tutorial study. Admission by approval of faculty member who is to act as tutor and of graduate advisor or of Department Chair. Credit/No Credit

ENGL 410A. Writing Center Theory and Practice: Internships. 4 Units
Term Typically Offered: Fall, Spring
Provides interns with an opportunity to apply tutoring principles while working at tutors in the writing center.
Note: ENGL 410A is paired course with ENGL 195A, which meets at the same time in the same room. The graduate class, 410A, has a significantly increased reading, writing, and research component. May be repeated for up to 8 units of credit.
Credit/No Credit

ENGL 410B. Internship-ESL Teaching. 3 Units
Term Typically Offered: Fall, Spring
Provides interns with an opportunity to experience the day-to-day life of an ESL class. Tutors will observe an ESL class, will assist the teacher in conducting various aspects of the class, and will be responsible for planning and teaching at least one class session. Seminar meetings will provide an overview of ESL teaching methodology.
Credit/No Credit

ENGL 410C. Internships. 4 Units
Term Typically Offered: Fall, Spring
Work experience in an area related to the English major. Can be repeated if topic of internship differs. Credit/No credit
Credit/No Credit

ENGL 410E. Internship in Teaching Writing. 4 Units
Term Typically Offered: Fall, Spring
Students considering a teaching career intern in a composition class at an area community college. They work with a mentor teacher on site and meet periodically at CSUS. The internship provides students with an opportunity to experience the day-to-day life of a composition class and hands-on opportunity to design assignments, respond to student writing, conduct class discussions, etc. Students read composition and rhetorical theory with an eye toward day-to-day application in the classroom.
Credit/No Credit

ENGL 410F. Internship in Teaching Literature. 4 Units
Prerequisite(s): Recommended ENGL 225 or ENGL 22A or instructor permission
Corequisite(s): Instructor Permission
Term Typically Offered: Fall, Spring
Gives graduate students the opportunity to gain teaching experience in a literature classroom. Students will work closely with an instructor-of-record in a large (60+) lecture literature course and in small group discussion sessions under the supervision of the mentor professor. Interns will also meet regularly with their peers to discuss pedagogical issues and readings as they pertain to their experiences in the classroom. Credit/No Credit
ENGL 410L. Internship in Teaching Adult Reading. 3 Units
Term Typically Offered: Fall, Spring
Tutoring in adult reading. Tutors work with students who need reading instruction at Sacramento State, local community colleges or adult education agencies in the Sacramento area.
Credit/No Credit

ENGL 410W. Writing Programs Internship. 3 Units
Term Typically Offered: Fall, Spring
Students will work with a Composition faculty member to complete a project for the campus writing program, the University Reading and Writing Center, the Graduation Writing Assessment Requirement, or the Writing Across the Curriculum Program. Students should contact the appropriate program coordinator to register for the course and design a project.
Credit/No Credit

ENGL 500. Culminating Experience. 2 Units
Term Typically Offered: Fall, Spring
Completion of a thesis, project, comprehensive examination. In addition, students will be asked to edit and reflect on their portfolio projects from coursework.

ENGL 598T. Culminating Experience - TESOL. 3 Units
Term Typically Offered: Fall, Spring
Completion of a thesis, project, or TESOL comprehensive exam. Requires advancement to candidacy and permission of graduate coordinator. Project and thesis options require GPA of 3.7.

BA in English
Units required for Major: 44, 27-30 of which must be upper division
Total units required for BA: 120

Program Description
The English department of California State University, Sacramento, is a community of teachers, scholars, writers, and support staff whose primary mission is to promote learning in composition, creative writing, English education, linguistics, literature, and the teaching of English as a second language. The department seeks to help students acquire knowledge, develop skills, and realize their own intellectual and creative goals.

At the undergraduate and graduate levels, the English Department presents a broad and balanced curriculum designed to develop the reading and writing skills, the interpretative abilities, and the cultural awareness of its students by maintaining and enhancing a tradition of strong teaching, solid scholarship, and vigorous support of creative literary activity.

Minimum Grade Requirement
English majors must achieve a grade of "C-" or better in all courses included in the major, unless otherwise specified.

Note: With the noted exception of ENGL 5, English courses may NOT be challenged.

Program Requirements

Required Lower Division Courses (9 Units)
Select three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 40A</td>
<td>Introduction to British Literature I ²</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 40B</td>
<td>Introduction to British Literature II ²</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 50A</td>
<td>Introduction to American Literature I ²</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 50B</td>
<td>Introduction to American Literature II ²</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 65</td>
<td>Introduction to World Literatures in English²</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Upper Division Courses (10 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 120A</td>
<td>Advanced Composition</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 198X</td>
<td>Senior Portfolio</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 198T</td>
<td>Senior Seminar In English ³</td>
<td>4</td>
</tr>
</tbody>
</table>

Additional Requirements

Historical Breadth requirement
Select one of the following (unless ENGL 40A or ENGL 50A has been taken as one of the required Lower Division courses).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 40A</td>
<td>Introduction to British Literature I ²</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 50A</td>
<td>Introduction to American Literature I ²</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110B</td>
<td>History of the English Language</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 140B</td>
<td>Medieval Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 140C</td>
<td>The English Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 140E</td>
<td>Restoration &amp; Eighteenth-Century Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 140F</td>
<td>British Literature, 1660-1780</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 140G</td>
<td>The Eighteenth-Century British Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 140R</td>
<td>Renaissance Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 141A</td>
<td>The Essential Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 141B</td>
<td>Shakespop: Shakespeare and Popular Culture²</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 145A</td>
<td>Chaucer - Canterbury Tales</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 145B</td>
<td>Shakespeare - Early Plays, 1592-1600</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 145C</td>
<td>Shakespeare - Later Plays, 1600-1612</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 145I</td>
<td>John Milton</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 150A</td>
<td>Early American Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (25 Units)
Select 25 units; these 25 units must include a course that meets the Historical Breadth requirement unless that requirement has been met by taking ENGL 40A or ENGL 50A as one of the required Lower Division courses.

Total Units 44

1 Students must take at least one British Literature survey (ENGL 40A, ENGL 40B), and at least one American Literature survey (ENGL 50A, ENGL 50B). We recommend that lower division requirements be completed no later than the first semester in which the student begins taking required upper division courses.
2 Course also satisfies General Education (GE)/Graduation Requirement.
3 Students are required to complete a course in their senior year, selecting from courses specially designated as Senior Seminars. The seminar has a reduced class size and requires a term paper, student presentations and submission of the student’s work.
4 Students must take one of the classes listed to satisfy this requirement (unless they have already taken ENGL 40A or ENGL 50A as one of the required Lower Division courses).
In addition to the required courses, students take an additional 25 units of electives, including their writing intensive course, which must be taken in the English department. Of those 25 units, at least 18 units must be upper division.

Students can satisfy the historical breadth requirement by taking ENGL 40A or ENGL 50A as one of their required Lower Division courses; students who have not done so must take at least one course that meets the Historical Breadth requirement as part of their 25 units of elective courses in the major.

**Notes:**

- Students must complete 18 units of English, of which at least 15 must be in upper division (100-level) courses, in residence at California State University, Sacramento.
- The following courses may not be included toward the major:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1</td>
<td>Basic Writing Skills</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3</td>
<td>Introduction to Academic Discourse</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3M</td>
<td>Introduction to Academic Discourse for Multilingual Students</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 5</td>
<td>Accelerated Academic Literacies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1C</td>
<td>Critical Thinking and Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1X</td>
<td>Academic Literacies Workshop</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 5M</td>
<td>Accelerated Academic Literacies - Multilingual</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 10</td>
<td>Academic Literacies I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 10M</td>
<td>Academic Literacies I - Multilingual</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 11</td>
<td>Academic Literacies II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 11M</td>
<td>Academic Literacies II-Multilingual</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 20</td>
<td>College Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 20M</td>
<td>College Composition II for Multilingual Students</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 60</td>
<td>Active Reading Across the Curriculum</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 60M</td>
<td>Reading for Speed and Efficiency for Multilingual Students</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 85</td>
<td>Grammar for Multilingual Writers</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 86</td>
<td>College Language Skills for Multilingual Students</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 87</td>
<td>Basic Writing Skills for Multilingual Students</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 109M</td>
<td>Preparing to Write in the Disciplines - Multilingual</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 109W</td>
<td>Preparing to Write in the Disciplines</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 109X</td>
<td>Writing-Intensive Workshop</td>
<td>1</td>
</tr>
</tbody>
</table>

- Up to 6 units of ENGL 199 may be included in the 27 upper division units. Three units in an upper division literature class from another major may also be included.
- English majors must fulfill the GE Writing Intensive "supervenient requirement" with courses in **the major, only**.

## General Education Requirements

### Area A: Basic Subjects (9 Units)
- A1 - Oral Communication 3
- A2 - Written Communication 3
- A3 - Critical Thinking 3

### Area B: Physical Universe and Its Life Forms (13 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements</td>
<td>3</td>
</tr>
</tbody>
</table>

### Area C: Arts and Humanities (6 Units)
- C1 - Arts 3
- C2 - Humanities 2
- C1/C2 - Area C Course 2
- C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. 3

### Area D: The Individual and Society (9 Units)
- Area D Course 3
- Area D Course - Take upper-division course to complete Area & upper division requirements. 3

### Area E: Understanding Personal Development (3 Units)
- Area E Course 3

### Area F: Ethnic Studies (3 Units)
- Area F Course 3

**Total Units**: 43

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note**: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

## Graduation Requirements

### Code  Title                                      | Units |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>G 1</td>
<td>Graduation Requirements (required by CSU) (6 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
<td>0</td>
</tr>
</tbody>
</table>

### Graduation Requirements (required by Sacramento State) (9 Units)
- English Composition II 0
- Race and Ethnicity in American Society (RE) 3
- Foreign Language Proficiency Requirement 6

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note**: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
Certificate in Professional Writing

The Professional Writing Certificate prepares students to communicate as rhetorically effective and ethical writers in diverse workplace contexts. Students learn the theories that inform professional writing and gain hands-on experience by producing a variety of professional documents and completing an internship. Professional writing takes place within organizational and/or institutional contexts and includes workplace genres such as reports, correspondence, manuals, employment documents, grants, etc. Given the contexts in which professional writing takes place, there is a strong emphasis on writing in digital environments and using data effectively.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 120P</td>
<td>Professional Writing</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 120T</td>
<td>Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 195W</td>
<td>Writing Programs Internship</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110J</td>
<td>Traditional Grammar and Standard Usage</td>
</tr>
<tr>
<td>ENGL 120C</td>
<td>Topics in Composition</td>
</tr>
<tr>
<td>ENGL 120R</td>
<td>Topics in Rhetoric</td>
</tr>
<tr>
<td>ENGL 120S</td>
<td>Writing in the Social Sciences</td>
</tr>
<tr>
<td>ENGL 120E</td>
<td>Digital Writing and Rhetoric</td>
</tr>
<tr>
<td>ENGL 120Q</td>
<td></td>
</tr>
<tr>
<td>ENGL 120L</td>
<td></td>
</tr>
<tr>
<td>ENGL 130F</td>
<td>Writing For Television</td>
</tr>
<tr>
<td>ENGL 130J</td>
<td>Writing Feature Film Scripts</td>
</tr>
<tr>
<td>ENGL 130M</td>
<td>Art of Autobiography</td>
</tr>
<tr>
<td>ENGL 130N</td>
<td>Creative Non-Fiction</td>
</tr>
<tr>
<td>ENGL 195A</td>
<td>Writing Center Theory and Practice: Internships</td>
</tr>
<tr>
<td>ENGL 195C</td>
<td>Internship in Field Work</td>
</tr>
</tbody>
</table>

Total Units: 15-16

Certificate in Teaching Composition

Units required for the certificate: 16

1  Employment as a Teaching Associate in the English Department at Sacramento State may be substituted for ENGL 410E, reducing total number of coursework units to 12.

Program Description

The English department of California State University, Sacramento, is a community of teachers, scholars, writers, and support staff whose primary mission is to promote learning in composition, creative writing, English education, linguistics, literature, and the teaching of English as a second language. The department seeks to help students acquire knowledge, develop skills, and realize their own intellectual and creative goals.

At the undergraduate and graduate levels, the English Department presents a broad and balanced curriculum designed to develop the reading and writing skills, the interpretative abilities, and the cultural awareness of its students by maintaining and enhancing a tradition of strong teaching, solid scholarship, and vigorous support of creative literary activity.

The "Teaching Composition Certificate" is designed for individuals who seek formal recognition for completing an organized, integrated, specialized program of study: teaching composition. This certificate is recommended for those students preparing to teach writing at the community college level or for high school teachers seeking to update their knowledge of composition theory and practice. Upon successful completion of the designated course of study, a certificate will be awarded.

Note: Candidates must have an overall GPA of 3.0 in courses submitted for the certificate. Applicants for the Certificate Program in Teaching Composition must have completed all requirements for eligibility for any English graduate program. This certificate is not recognized by the California Commission on Teacher Credentialing; it does not meet the eligibility requirements to teach in K-12 California public schools.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 220A</td>
<td>Teaching College Composition</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 410A</td>
<td>Writing Center Theory and Practice: Internships</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 220C</td>
<td>Topics in Composition Studies</td>
<td>4</td>
</tr>
<tr>
<td>or ENGL 220R</td>
<td>Topics in Rhetorical Theory and Practice</td>
<td>4</td>
</tr>
<tr>
<td>or ENGL 220P</td>
<td>Professional Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 410E</td>
<td>Internship in Teaching Writing (Teaching Associateship in English at Sacramento State)</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units: 16

1  Employment as a Teaching Associate in the English Department at Sacramento State may be substituted for ENGL 410E, reducing total number of coursework units to 12.

Certificate in TESOL

Units required for Certificate: 15 (Option A) or 18 (Option B)

Program Description

This Advanced Study in Teaching English to Speakers of Other Languages (TESOL) certificate program has two options:

- **Option A**: This option is intended for undergraduates who want preparation for teaching ESL students (in the U.S. or abroad).
• **Option B:** This option is intended primarily for graduate (see English graduate page) students who want to pursue an MA in English or another field, but also want to be prepared to teach ESL writing at the college level.

**Eligibility Requirements for options A and B**

**Students must either be in a degree program at Sacramento State or must apply for graduate admission to the University.** Once admitted to Sacramento State, prospective TESOL Certificate students must apply to the TESOL Coordinator for admission to the program.

**Undergraduates** must be within 45 units of completing a bachelor’s degree (in any field) with a 3.0 overall GPA.

**Graduate students** must have a completed bachelor’s degree (in any field) with a 3.0 overall GPA.

**All applicants** must complete the University’s Writing Placement for Juniors (WPJ) requirement.

**International students** must have a TOEFL score of 600 or higher (or a score of 250 or higher on the computerized TOEFL) and a score of 5 on the Test of Written English.

**Minimum Grade Requirement**

Courses must be completed with grades of “B” or better.

**Program Requirements**

**Option A (15 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110A</td>
<td>Linguistics and the English Language</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110P</td>
<td>Second Language Learning and Teaching</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110Q</td>
<td>English Grammar for ESL Teachers</td>
<td>3</td>
</tr>
<tr>
<td><strong>Pedagogy Electives (6 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ENGL 110C</td>
<td>Technology in Second Language Teaching</td>
<td></td>
</tr>
<tr>
<td>ENGL 125E</td>
<td>Academic Reading and Writing for Second Language Students</td>
<td></td>
</tr>
<tr>
<td>ENGL 125F</td>
<td>Teaching Oral Skills</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units:** 15

**Option B (18 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110A</td>
<td>Linguistics and the English Language</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110P</td>
<td>Second Language Learning and Teaching</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110Q</td>
<td>English Grammar for ESL Teachers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 215B</td>
<td>ESL Writing/Composition 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 410B</td>
<td>Internship-ESL Teaching</td>
<td>3</td>
</tr>
<tr>
<td><strong>Elective (3 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 200E</td>
<td>Curriculum and Assessment Design for Language Classrooms</td>
<td></td>
</tr>
<tr>
<td>ENGL 210C</td>
<td>Technology in Second Language Teaching</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units:** 18

1. ENGL 110A and ENGL 110P must be completed before any ENGL 215 course
2. ENGL 110Q must be completed before attempting ENGL 215C.

**Notes:** The Certificate in TESOL is not a teaching credential. It is recognized abroad as advanced training in language teaching. In conjunction with a BA or MA degree or a state teaching credential, it may also be helpful in obtaining employment as an ESL teacher in the United States.

**MA in Composition, Rhetoric, and Professional Writing**

Total units required for the MA: 30

**Program Description**

The MA in Composition, Rhetoric, and Professional Writing is recommended for students preparing to teach at the high school or community college level or advance as writers in professional, workplace contexts. The MA in Composition, Rhetoric, and Professional Writing offers preparation for careers in fields such as education, journalism, publishing, law, technical writing, advertising, arts administration, or civil service; or to pursue study at the doctoral level. Because many graduate students work during the day, most graduate courses are scheduled for late afternoon and evening hours. The course of study leads to an M.A. thesis project in rhetoric, composition, and professional writing in which the student undertakes original research or creates a professional writing portfolio under the supervision of a two-person faculty committee.

**Admission Requirements**

- a minimum GPA of 3.0 in the last 60 units of all university level coursework OR a 3.0 GPA in courses in Communication Studies, Education, English, Philosophy, Political Science or related major on the transcript from your degree-granting institution (effective beginning with Spring 2015 admissions)
- **Statement of purpose and writing sample**

Students from foreign universities must take the TOEFL test, which is administered in different formats; students need take only one format of the exam. Required scores for each format are as follows:

- paper based TOEFL: 600, with a score of 5 on the Test of Written English (TWE)
- computer based TOEFL: 250, with a score of 5 on the Test of Written English (TWE)
- internet based TOEFL (IBT): 100, with a minimum of 25 on the writing section
Advancement to Candidacy
Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of English 200-level courses in the Master’s Degree program with a minimum cumulative grade point average of 3.0; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with an English faculty advisor. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 220A</td>
<td>Teaching College Composition</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 220D</td>
<td>Teaching and Composition Research</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 220P</td>
<td>Professional Writing</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 220R</td>
<td>Topics in Rhetorical Theory and Practice</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 410A</td>
<td>Writing Center Theory and Practice: Internships</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>or ENGL 410C Internships</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or ENGL 410E Internship in Teaching Writing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or ENGL 410W Writing Programs Internship</td>
<td></td>
</tr>
</tbody>
</table>

**Electives: 2**

Students who enroll in a three-unit elective course must also enroll in ENGL 222: Understanding Multidisciplinary Writing Studies.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 220C</td>
<td>Topics in Composition Studies</td>
<td></td>
</tr>
<tr>
<td>ENGL 215B</td>
<td>ESL Writing/Composition</td>
<td></td>
</tr>
<tr>
<td>ENGL 210G</td>
<td>Second Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>ENGL 200A</td>
<td>Methods and Materials of Literary Research</td>
<td></td>
</tr>
<tr>
<td>ENGL 201D</td>
<td>Contemporary Theory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select a course from the ENGL 230, ENGL 240, ENGL 250, ENGL 260, ENGL 275, or ENGL 280 series</td>
<td></td>
</tr>
</tbody>
</table>

**Culminating Requirement (2 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 500</td>
<td>Culminating Experience</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Units** 30

1 In order to satisfy the Graduation Writing Requirement (GWAR) and advance to candidacy, students in this program must receive a “B” or higher in ENGL 220A. For more information on this requirement and possible equivalencies, please visit: http://www.csus.edu/gradstudies/currentstudents/gwar.html.

2 Up to four units of upper-division (100-level) coursework in the English department may be counted toward electives.

3 Students who enroll in a three-unit elective must also enroll in ENGL 222: Understanding Multidisciplinary Writing Studies.

4 The Culminating requirement for the Composition Concentration shall be completed via Plan A requirements by writing a thesis.

MA in English (Creative Writing)

**Total units required for the MA: 30**

**Program Description**

The M.A. in English with a Concentration in Creative Writing is recommended for students preparing to teach at the community college level, for those students whose objective is to pursue an M.F.A. or Ph.D. in creative writing, and writers seeking to advance their understanding of creative writing practice and theory.

In general, the M.A. degree in each of its concentrations seeks to enhance students’ skills in: critical reading; analysis of language, ideas, and the formal attributes of texts; creative engagement with the writing traditions of its two disciplinary fields; and independent research.

The two concentrations of the English M.A. offer preparation for students who aspire: to teach writing or literary study in high-school or community-college settings; to teach English to adult learners and to students abroad; to pursue career opportunities in fields such as journalism, publishing, law, and creative writing, advertising, arts administration, or civil service; or to pursue study at the doctoral level.

Because many graduate students work during the day, most graduate courses are scheduled for late afternoon and evening hours.

**Admission Requirements**

Admission as a classified graduate student in English requires:

For: All Applicants to the MA in English

- a baccalaureate degree;
- a minimum GPA of 3.0 in the last 60 units of all university level coursework or a 3.0 GPA in courses in the English major on the transcript from the degree granting institution;
- a minimum of 27 units of upper division courses in English;
- (for foreign students from non-English speaking countries) a TOEFL score of 600 or higher (or a score of 250 or higher on the Computerized TOEFL) and a score of 5 on the Test of Written English; and
- a minimum of fifteen units of upper-division coursework in literature
- at least one course must primarily address British literature and at least one course must primarily address American literature;

**Application Materials Required by the English Department for All Applicants**

In addition to the materials that must be sent directly to the Office of Graduate Studies as outlined in "Application Materials Required by the University" (below), students must also send additional material by the application deadline.

Before submitting the materials, please check with the English Department website (http://www.csus.edu/engl/ (http://www.csus.edu/engl/)) for updates and specific deadlines.

Please include the following as part of the supplemental application:

- Personal statement of no more than 300-500 words. The personal statement should discuss the applicant’s interest in the program concentration (literature or creative writing) that he or she has chosen and the experiences (academic and non-academic) that have shaped this interest and prepared the applicant for graduate work in this field.
indicating a proposed program of graduate study. This procedure should
Each student must file an application for Advancement to Candidacy,
apply towards the degree
Minimum Cumulative GPA: 3.0. No units with a grade lower and “C” may
the Office of Graduate Studies website.
for more admissions information and application deadlines, please visit
Applicants are accepted as long as room for new students exists or until
the deadline passes. Applicants should file as early as possible.
Applicants who have deficiencies in these admission requirements
which can be removed by specified additional preparation will be ranked
accordingly but may be admitted with conditionally classified graduate
status. Any deficiencies will be noted on a written response from the
Graduate Coordinator to the student’s admission application.

Application Materials Required by the University
In addition to any materials sent directly to the department, all prospective graduate students including California State University, Sacramento, graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

• an online application for admission;
• one set of official transcripts from all colleges and universities
attended, other than California State University, Sacramento; and
• TOEFL scores, if applicable.

Note: For materials that must be sent as part of the supplemental
application, see “Application Materials Required by the English
Department” as listed above.

Applicants are accepted as long as room for new students exists or until
the deadline passes. Applicants should file as early as possible.

For more admissions information and application deadlines, please visit
the Office of Graduate Studies website.

Minimum Units and Grade Requirements for the Degree
Units required for the MA: 30
Minimum Cumulative GPA: 3.0. No units with a grade lower and “C” may
apply towards the degree

Advancement to Candidacy
Each student must file an application for Advancement to Candidacy,
indicating a proposed program of graduate study. This procedure should
begin as soon as the classified graduate student has:

• removed any deficiencies in admission requirements;
• completed at least 12 units of English 200-level courses in the
Master’s Degree program with a minimum cumulative grade point
average of 3.0; and
• taken the Writing Placement for Graduate Students (WPG) or taken
a Graduate Writing Intensive (GWI) course in their discipline within
the first two semesters of coursework at California State University,
Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate
Studies website. The student fills out the form after planning a degree
program in consultation with an English faculty advisor. The completed
form is then returned to the Office of Graduate Studies for approval.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 200A</td>
<td>Methods and Materials of Literary Research</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 220A</td>
<td>Teaching College Composition</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 275</td>
<td>Seminar in Literary History</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 201D</td>
<td>Contemporary Theory</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 230X</td>
<td>Master Class in Writing Fiction</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 230Y</td>
<td>Master Class in Writing Poetry</td>
<td>4</td>
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Culminating Requirement (2 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 500</td>
<td>Culminating Experience</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units 30

1 In order to satisfy the Graduation Writing Assessment Requirement (GWAR) and advance to candidacy, Creative Writing and Literature students must receive a “B” or higher in ENGL 200A. For more
information on this requirement and possible equivalencies, please visit: http://www.csus.edu/gradstudies/currentstudents/gwar.html

2 The culminating requirement for Creative Writing Concentration shall be the Comprehensive Examination (Plan C), for which student will
prepare by taking ENGL 500.

MA in English (Literature)

Total units required for MA: 30

Program Description

The MA in English with a Concentration in Literature is recommended
for students preparing to teach at the community college level, for those
whose objective is to pursue a Ph.D. in literature, or for high school
teachers seeking to advance their understanding of literature and literary
theory.

In general, the M.A. degree in each of its concentrations seeks to
enhance students’ skills in: critical reading; analysis of language, ideas,
and the formal attributes of texts; creative engagement with the writing
traditions of its two disciplinary fields; and independent research.

The two concentrations of the English M.A. offer preparation for students
who aspire: to teach writing or literary study in high-school or community
college settings; to teach English to adult learners and to students
abroad; to pursue career opportunities in fields such as journalism,
publishing, law, creative writing, advertising, arts administration, or civil
service; or to pursue study at the doctoral level.
Because many graduate students work during the day, most graduate courses are scheduled for late afternoon and evening hours.

**Admission Requirements**

Admission as a classified graduate student in English requires:

**For: All Applicants to the MA in English**
- a baccalaureate degree;
- a minimum GPA of 3.0 in the last 60 units of all university level coursework or a 3.0 GPA in courses in the English major on the transcript from the degree granting institution;
- a minimum of 27 units of upper division courses in English;
- (for foreign students from non-English speaking countries) a TOEFL score of 600 or higher (or a score of 250 or higher on the Computerized TOEFL) and a score of 5 on the Test of Written English; and
- a minimum of fifteen units of upper-division coursework in literature
- at least one course must primarily address British literature and at least one course must primarily address American literature;

**Application Materials Required by the English Department for All Applicants**

In addition to the materials that must be sent directly to the Office of Graduate Studies as outlined in “Application Materials Required by the University” (below), students must also send additional material by the application deadline.

Before submitting the materials, please check with the English Department website (http://www.csus.edu/engl/) for updates and specific deadlines.

Please include the following as part of the supplemental application:

- Personal statement of no more than 300-500 words. The personal statement should discuss the applicant’s interest in the program concentration (literature or creative writing) that he or she has chosen and the experiences (academic and non-academic) that have shaped this interest and prepared the applicant for graduate work in this field.
- Three confidentially submitted recommendation forms (found on the department website) for all students (both California State University, Sacramento and other institutions). Students graduating from universities other than California State University, Sacramento, must also provide formal letters from their three recommenders in addition to the completed recommendation forms.
- Writing sample for Creative Writing applicants only (for prose or poetry, the writing sample should consist of approximately 5 or 6 poems).
- Students graduating from any institution other than California State University, Sacramento, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:
  - one set of official transcripts from all colleges and universities attended, other than California State University, Sacramento; and
  - TOEFL scores, if applicable.

*Note:* For materials that must be sent as part of the supplemental application, see "Application Materials Required by the English Department" as listed above.

Applicants are accepted as long as room for new students exists or until the deadline passes. Applicants should file as early as possible.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website.

**Minimum Units and Grade Requirements for the Degree**

Units required for the MA: 30

Minimum Cumulative GPA: 3.0. No units with a grade lower and "C" may apply towards the degree

**Advancement to Candidacy**

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of English 200-level courses in the Master’s Degree program with a minimum cumulative grade point average of 3.0; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with an English faculty advisor. The completed form is then returned to the Office of Graduate Studies for approval.

**Program Requirements**

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<tbody>
<tr>
<td>ENGL 200A</td>
<td>Methods and Materials of Literary Research</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 201D</td>
<td>Contemporary Theory</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 275</td>
<td>Seminar in Literary History</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 220A</td>
<td>Teaching College Composition</td>
<td>4</td>
</tr>
</tbody>
</table>

**Concentration in Literature (12 Units)**

Select one course from the ENGL 240 series (British Literature) 4

Select one of the following:

| ENGL 250 series course (American Literature) | 4     |
MA in TESOL

Total units required for MA: 33

Program Description

The MA in Teaching English to Speakers of Other Languages (TESOL) requires extensive study of linguistics and pedagogy, as well as actual teaching and/or tutoring experience with second-language students. The culminating experience of the MA TESOL Concentration is the comprehensive examination.

The MA TESOL provides professional preparation and training in the theory and practice of teaching English to non-native speakers. The program is designed for graduate students who expect to teach in community college or secondary or adult education settings in the U.S. or in adult or university level courses overseas. The program is also preparation for the Ph.D. in Applied Linguistics.

Admission Requirements

To ensure that students entering the program have the potential to succeed, both in the program and in their teaching careers, the MA TESOL has the following admission requirements:

- a baccalaureate degree with a minimum 3.0 GPA, including a 3.0 GPA in the final 60 units;
- Students from foreign universities must provide proof of English language proficiency prior to admission by achieving a minimum score on one of three approved tests:
  - 90 on the Test of English as a Foreign Language (TOEFL), with a score of 22 on the writing subsection
  - 6.5 overall band score on the International English Language Testing System (IELTS)
  - 65 on the Pearson Test of English (PTE)
- completion of prerequisite courses (or their equivalents) with a grade of "B" or better.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110A</td>
<td>Linguistics and the English Language</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110Q</td>
<td>English Grammar for ESL Teachers</td>
<td>3</td>
</tr>
</tbody>
</table>

- Students should complete all prerequisites before enrolling in a graduate-level (200 and above) courses. A student who has not completed all prerequisites may be dropped by the instructor from a graduate-level course;
- Preference will be given to those students who have completed 2 semesters of college-level foreign language (6 units).

1 Students should see the TESOL Coordinator for a transcript evaluation if they have completed equivalent coursework. Under no circumstances will any coursework more than seven years old be accepted for transfer.

Admission Procedures

Applications are accepted on a first-come, first-served basis. Enrollment is limited, so applicants should file as early as possible in the semester prior to intended admittance. Students not meeting all requirements may be conditionally accepted as long as space is available in the program. Applicants must complete a university application by the posted application deadline date for the term applying. For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/.

Note: Because of the budget constraints, undergraduates and unclassified graduate students can be admitted to TESOL graduate courses on a space available basis only.

The following materials must also be submitted:

- Personal statement of no more than 300-500 words. The personal statement should discuss the applicant's interest in the program and the experiences (academic and non-academic) that have shaped this interest and prepared the applicant for graduate work in this field.
- Three confidentially submitted recommendation forms for all students (both California State University, Sacramento and other institutions). Students graduating from universities other than California State University, Sacramento, must also provide formal letters from their three recommenders in addition to the completed recommendation forms.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 33

Minimum Cumulative GPA: 3.0

Notes:

- Up to 3 units of ENGL 299 may apply to the degree.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. The procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- a plan of study that has been filled out with the help of the TESOL Advisor;
- completed at least 12 units of 200-level courses in the Master's Degree program with a "B" or better in each course; and
- take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.
Advancement to Candidacy forms are available on the Office of Graduate Studies website. The completed form is then returned to the Office of Graduate Studies for approval.

The MA in TESOL includes the Certificate of Advanced Study in TESOL. Coursework for the Certificate must be completed with grades of "B" or better. Credential candidates may apply for Supplemental Authorization in ESL through the Commission on Teacher Credentialing. Candidates for the Adult Education Credential in ESL may apply through their local County Office of Education. An extensive job file for employment in the U.S. and overseas is maintained in the TESOL Program Office, Calaveras Hall 138.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 200D</td>
<td>Materials and Methods of TESOL Research</td>
<td>3</td>
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<tr>
<td>ENGL 410B</td>
<td>Internship-ESL Teaching</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 200E</td>
<td>Curriculum and Assessment Design for Language Classrooms</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 210B</td>
<td>Sociolinguistics and TESOL</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 210G</td>
<td>Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 215A</td>
<td>Reading/Vocabulary Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 215B</td>
<td>ESL Writing/Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 215C</td>
<td>Pedagogical Grammar for TESOL</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 215D</td>
<td>Pedagogy of Spoken English</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (3 Units)

Select one of the following:

- ENGL 210C Technology in Second Language Teaching
- ENGL 220A Teaching College Composition
- ENGL 220C Topics in Composition Studies
- ENGL 410A Writing Center Theory and Practice: Internships
- ENGL 410E Internship in Teaching Writing
  or ENGL 410 Internship in Teaching Adult Reading

Culminating Requirement (3 Units)

ENGL 598T Culminating Experience - TESOL

Total Units 33

1. An upper division or graduate course not on this list may be substituted with the prior permission of the graduate coordinator.
2. Students must complete a thesis, project, or TESOL comprehensive examination. The thesis and project options require permission of the graduate coordinator. Only students with an earned GPA of 3.7 or higher will be given permission to do a thesis or project.

Certificate - TESOL

Option B: Required Courses (15 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110A</td>
<td>Linguistics and the English Language</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110P</td>
<td>Second Language Learning and Teaching</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110Q</td>
<td>English Grammar for ESL Teachers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 215B</td>
<td>ESL Writing/Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 410B</td>
<td>Internship-ESL Teaching</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective (3 Units)

Select one of the following: 3
Minor in English
Units required for Minor: 21

Program Description
The English department of California State University, Sacramento, is a community of teachers, scholars, writers, and support staff whose primary mission is to promote learning in composition, creative writing, English education, linguistics, literature, and the teaching of English as a second language. The department seeks to help students acquire knowledge, develop skills, and realize their own intellectual and creative goals.

Minimum Grade Requirement
Grades of "C-" or better are required in all courses in the minor.

Note: Nine of the units for the minor, including at least 6 upper division units, must be taken in residence at Sacramento State.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 40A</td>
<td>Introduction to British Literature I</td>
<td>3</td>
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<tr>
<td>ENGL 40B</td>
<td>Introduction to British Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 50A</td>
<td>Introduction to American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 50B</td>
<td>Introduction to American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 65</td>
<td>Introduction to World Literatures in English</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 15 additional units of upper-division English electives 15

Total Units 21

The following may not be counted toward the minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ENGL 1</td>
<td>Basic Writing Skills</td>
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<tr>
<td>ENGL 5</td>
<td>Accelerated Academic Literacies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1C</td>
<td>Critical Thinking and Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 5M</td>
<td>Accelerated Academic Literacies - Multilingual</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 20</td>
<td>College Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 109M</td>
<td>Preparing to Write in the Disciplines - Multilingual</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 109W</td>
<td>Preparing to Write in the Disciplines</td>
<td>3</td>
</tr>
</tbody>
</table>

Minor in TESOL
Units required for Minor: 18

Program Description
The English department of California State University, Sacramento, is a community of teachers, scholars, writers, and support staff whose primary mission is to promote learning in composition, creative writing, English education, linguistics, literature, and the teaching of English as a second language. The department seeks to help students acquire knowledge, develop skills, and realize their own intellectual and creative goals.

Notes:
• All coursework for the Teaching English to Speakers of Other Languages (TESOL) Minor must be taken at Sacramento State.
• Students choosing to major in English may NOT minor in TESOL.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 110A</td>
<td>Linguistics and the English Language</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110P</td>
<td>Second Language Learning and Teaching</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110Q</td>
<td>English Grammar for ESL Teachers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 125E</td>
<td>Academic Reading and Writing for Second Language Students</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 125F</td>
<td>Teaching Oral Skills</td>
<td>3</td>
</tr>
<tr>
<td>Elective course to be chosen from the English 110 series</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 18

Note: Courses being applied to other degree programs (e.g., to Spanish majors) cannot also be applied to the TESOL Minor. See the TESOL Coordinator for prior approval of substitute courses.

Subject Matter Program (English)
Units required for Major: 47
Total units required for BA: 120

Program Description
The English Single Subject Matter Program is a version of the major designed for students planning to teach English at the secondary school level.

General Requirements
Both new and continuing students in this major must establish a file with the English Education Advisor and to see the advisor at least once per semester to keep their file current.

Students must achieve a grade of "B-" or better in the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 16</td>
<td>Structure Of English or ENGL 110J</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110Q</td>
<td>English Grammar for ESL Teachers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110A</td>
<td>Linguistics and the English Language</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 110P</td>
<td>Second Language Learning and Teaching</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 125A</td>
<td>Literature and Film for Adolescents</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 125B</td>
<td>Writing and the Young Writer</td>
<td>3,4</td>
</tr>
</tbody>
</table>

Minimum Grade Requirement
Students must achieve a grade of "C" or better in all other courses for the program.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 40B</td>
<td>Introduction to British Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 50A</td>
<td>Introduction to American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 50B</td>
<td>Introduction to American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 65</td>
<td>Introduction to World Literatures in English</td>
<td>3</td>
</tr>
</tbody>
</table>
ENGL 110A Linguistics and the English Language 3
Select one of the following: 3
ENGL 16 Structure Of English 2
ENGL 110J Traditional Grammar and Standard Usage 2
ENGL 110Q English Grammar for ESL Teachers 2
ENGL 110P Second Language Learning and Teaching 2
ENGL 120A Advanced Composition 4
ENGL 125B Writing and the Young Writer 2
ENGL 125A Literature and Film for Adolescents 2
ENGL 145B Shakespeare - Early Plays, 1592-1600 4
or ENGL 145C Shakespeare - Later Plays, 1600-1612 4
ENGL 198T Senior Seminar In English 4
ENGL 198X Senior Portfolio 2

Elective Units (4 Units)
English Elective: students must use these unit to meet their Writing Intensive requirement by choosing a course in the English Department. 3

Total Units 47

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Minimum grade of "B" required
3. Students must meet the Writing Intensive requirement with a course in the major only.

Notes:

- Students declared in the English (Pre-Credential) major must make an advising appointment with the English Education Coordinator as soon as possible.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (13 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area C: Arts and Humanities (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities 2</td>
<td>0</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course 2</td>
<td>0</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area D: The Individual and Society (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area D Course - Take upper-division course to complete Area & upper division requirements.

Area E: Understanding Personal Development (3 Units)
Area E Course 3

Total Units 43

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies GE.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI) 2</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition II 3</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement 4</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies Graduation Requirement.

3. Required in Major; also satisfies Graduation Requirement.

4. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Hellenic Studies

College of Arts and Letters

Program Description

The Hellenic Studies minor emphasizes coursework and independent study in the areas of Greek language, Greek History, Greek politics, and Greek arts and literature. The Hellenic Studies curriculum includes lower and upper division classes offered by the departments of Foreign Languages, History, Humanities and Religious Studies, Philosophy.
Government, and Art. The minor is associated with the Tsakopoulos Hellenic Collection (http://www.library.csus.edu/tsakopoulos/) in the Sacramento State Library.

**Degree Programs**

Minor in Hellenic Studies (p. 224)

**Contact Information**

Katerina Lagos, Program Director
Tahoe Hall 3089
(916) 278-7103

**Minor in Hellenic Studies**

Total units required in the minor: 23 with at least 12 in upper division

**Program Description**

The Hellenic Studies minor emphasizes coursework and independent study in the areas of Greek language, Greek History, Greek politics, and Greek arts and literature. The Hellenic Studies curriculum includes lower and upper division classes offered by the departments of Foreign Languages, History, Humanities and Religious Studies, Philosophy, Government, and Art. The minor is associated with the Tsakopoulos Hellenic Collection www.library.csus.edu/tsakopoulos (http://www.library.csus.edu/tsakopoulos/) in the Sacramento State Library.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREK 6A</td>
<td>Elementary Modern Greek</td>
<td>4</td>
</tr>
<tr>
<td>GREK 6B</td>
<td>Elementary Modern Greek</td>
<td>4</td>
</tr>
<tr>
<td>HIST 109</td>
<td>History of Modern Greece</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 103</td>
<td>Mediterranean Europe: From the Renaissance to the European Union</td>
<td>3</td>
</tr>
<tr>
<td>HIST 111</td>
<td>Ancient Greece</td>
<td>3</td>
</tr>
<tr>
<td>HRS 113</td>
<td>The Culture of Classical Greece</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (6 Units)**

Select two of the following: 6

- ART 1A | Art, Religions, and Power before 1400
- ART 103 | Art of the Ancient Mediterranean
- HIST 143B | The Modern Middle East
- HRS 119 | Classical Mythology
- HRS 120 | Reason and Revelation: The Origins of Western Culture
- PHIL 26 | History of Philosophy
- PHIL 112 | History Of Ethics
- PHIL 192D/192E | Space and Time
- POLS 101 | Political Thought I
- THEA 2 | History of the Theatre: Ancient to Renaissance

**Total Units** 23

**Note:** Students are required to seek advising from a Hellenic Studies advisor.

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**History**

**College of Arts and Letters**

**Program Description**

History, in the broad sense, is the study of all human experience. It examines the people, institutions, ideas, and events from the past to the present. The study of history contributes to cultural literacy and develops critical thinking and other useful skills while helping students understand the present and plan for the future. Historical study provides a solid, fundamental preparation for careers in business, industry, government, and education. It also serves as excellent preparation for law school, foreign service, international work, urban affairs, historical consulting, and library science.

History is an academic discipline offering both breadth and focus. At Sacramento State, the History major includes four lower division survey courses and three upper division seminars. In addition, students choose seven upper division electives from a wide variety available. The flexibility of the major allows students to focus on topical areas such as: women's history, the history of particular geographic areas, cultural history, ethnic group history, economic history, military history, and history from the ancient world to that of the U.S. in the 20th Century. Teaching credential candidates should complete the History/Social Science Precredential Program.

The Sacramento State History Department has an extensive master's program, offering degrees through the Standard Program, and the Public History Option. The History Department also offers a joint Ph.D. in Public History in cooperation with the University of California, Santa Barbara. Applications for admission to the joint Ph.D. are available at the UC Santa Barbara Department of History.

**Degree Programs**

BA in History (p. 240)

Minor in History (p. 246)

Minor in Latin American Studies (p. 246)

Subject Matter Program in History/Social Science (Pre-Credential Preparation) (p. 247)

MA in History (Comprehensive Option) (p. 242)

MA in History (Specialized Option) (p. 243)

MA in Public History (p. 245)

Ph.D. in Public History (p. 247)

**Special Features**

- The History Department administers two interdisciplinary minors: Middle East and Islamic Studies Minor and the Hellenic Studies Minor.
- The Capitol Campus History Resources Institute, Hellenic Studies Center, North Central Information Center, and the Center for Science, History, Policy, and Ethics are associated with the Department.
- The California State Library, California State Archives, the Sacramento Discovery Museum, and the California State Railroad Museum provide a rich supply of materials for historical research. Sacramento State history students may use materials from these and other off-campus sources in their work.
● Internships are available in a variety of public agencies and in some private enterprises. They are open to majors and other students with some history or related background. In the past, students have interned in a variety of California state agencies and in the Sacramento Discovery Museum. The Department office has a descriptive brochure on internships that students are encouraged to consult.

● The undergraduate major in History at Sacramento State is designed to provide cultural enrichment and a sense of alternatives and perspectives, especially relevant in a society confronted with widespread institutional change. In addition to subject matter, the Department gives particular emphasis to various methodologies and ways of thinking about the past.

● A minor in History can provide valuable support to majors in many other programs, such as Business Administration, Journalism, and Criminal Justice.

● History courses also make excellent electives, contributing interest and variety to an academic program. Neither lower division nor upper division history courses are designed only for history majors or minors. The Department welcomes and encourages all students.

Career Possibilities
Pre-Law/Lawyer · Journalist · Pre-Theology/Clergy · Foreign Service · Teacher · Archivist · Researcher/Research Analyst · Museum Curator · State Park Historian · Librarian · Business-Person · Writer · Consultant · Historian · Banking · Market Research · Travel · Historical Societies

Contact Information
Jeffrey Wilson, Department Chair
Stacie Tillman, Administrative Support Coordinator
LoriAnn Rodriguez, Administrative Support Assistant and Graduate Secretary
Tahoe Hall 3080
(916) 278-6206
Department of History Website (http://www.csus.edu/hist/)

Faculty
ATAMAZ, SERPIL
BLY, ANTONIO
BURKE, CHLOE S.
CASTAÑEDA, CHRISTOPHER J.
COHEN, AARON J.
DYM, JEFFREY A.
ETTINGER, PATRICK W.
GERMAN, JAMES D.
GREGORY, CANDACE
KLUCHIN, REBECCA
LAGOS, KATERINA
LAZARIDIS, NIKOLAOS
LINDSAY, ANNE
LINDSAY, BRENDAN
LUPO, M. SCOTT
MULHOLLAND, REBEKKAH Y.
PALERMO, JOSEPH A.
QIN, AMELIA YING
QUINTANA, MARIA
SCHNEIDER, KHAL
SIEGEL, MONA
SIMPSON, LEE M.A.
TAMAI, LILY
VANN, MICHAEL
WILSON, JEFFREY K.

HIST 4. Survey of Early Western Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Survey of the earliest civilizations with emphasis on the contributions of the Hellenic, Roman and the Medieval eras to the West. Continues to the close of the Middle Ages. Stress is placed on social, economic, as well as political factors.

HIST 5. Survey of Modern Western Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Survey of the development of western civilization from the Renaissance to the present day. Stress is placed on social and economic, as well as political, factors.
Note: Not open for credit to students receiving prior credit in HIST 105.

HIST 6. Asian Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Introduction to major developments in the histories and cultures of China, Japan, and India – origins of civilizations, great empires, religions, growth and spread of cultures, alien invasions, Western impact, nationalist movements, modernization, and characteristics of contemporary society.

HIST 7. History of African Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Introductory survey of the history of Africa from earliest times to the present. Major topics include: origins of humanity and society, civilizations of the Nile Valley, the peopling of Sub-Saharan Africa, African societies to 1500, pre-colonial Saharan and Sub-Saharan Africa, Colonial Africa and the emergence of modern states in Africa.
HIST 8. Islam and the West. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introductory survey of basic events, themes, issues, and concepts in Islamic history from the rise of Islam to the present, with emphasis on the encounters and exchanges between the Islamic world and the "West" (Europe and the United States). Topics include: The similarities between Islam, Judaism and Christianity; the religious, political, social, and cultural developments in the Islamic world and their impact on western civilization; colonialism; nationalism; religious revivalism; and revolutionary movements.

HIST 9. What We Ate: A Global History of Food. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A historical examination of the political, economic, and cultural transformations involved in food production and consumption since 1500. Emphasis on important food networks between South Asia and the Middle East, the role of addictive products in the rise of European trade empires, the emergence of national cuisines across the Atlantic and Pacific rims, and the varied responses to modern scientific and industrial farming.

HIST 10. History's Mysteries: Thinking Critically about the Past. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

From the builders of the Pyramids to the cause of the Holocaust: unlock mysteries of the past; apply historical thinking skills to answer compelling historical questions; sharpen reasoning and argumentative skills; evaluate historical evidence; learn to recognize scientific standards of historical investigation; hone college level writing skills. Topics vary based on instructor’s expertise.

HIST 15H. Major Problems in U.S. History. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), United States History
Term Typically Offered: Fall, Spring

A survey of topics in American history from the colonial period to the end of the twentieth century. Subjects may include reform movements, immigration, racial problems, religion, politics and the role of women.
Note: Fulfills graduation requirement for U.S. History and Race and Ethnicity.

HIST 17A. United States History, 1607-1877. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D, United States History
Term Typically Offered: Fall, Spring

Basic historical survey of the rise of American civilization from colonial beginnings through the rebuilding of the union during Reconstruction.
Note: Fulfills state graduation requirement for U.S. History.

HIST 17B. United States History, 1877-Present. 3 Units
General Education Area/Graduation Requirement: GE AREA D, United States History, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Basic historical survey of the growth of urban-industrial American civilization and its rise to world power, 1877-present.
Note: Fulfills state graduation requirement for U.S. History.

HIST 17D. United States History Discussion Section. 1 Unit
Corequisite(s): Enrollment in a section of HIST 17A or HIST 17B
Term Typically Offered: Fall, Spring

A weekly discussion section to accompany enrollment in HIST 17A or 17B. Text discussions and presentations, reading and note-taking strategies, historical writing, primary source investigations.
Credit/No Credit

HIST 18. Health, Medicine, and Science in America, 1600-Present. 3 Units
General Education Area/Graduation Requirement: GE AREA D, United States History, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

An examination of American medicine and science from the colonial era through the present from the perspective of people of color, immigrants, women, and LGBTQ+ people. This course investigates how different groups of Americans understood and experienced disease, illness, and disability; explores how diseases were racialized and gendered, how science was used to establish and reinforce racial inequalities, and how access healthcare has been based upon race, class, gender, sexuality, and (dis)ability; and identifies health activism in social movements.

HIST 18B. Becoming America: Immigrants in American History, 1877-Present. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D, United States History
Term Typically Offered: Fall, Spring

Survey of the growth of modern American society and its rise to world power, 1877-present, with emphasis on the significant contributions and experiences of immigrants to American history.

HIST 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature of higher education, and the functions and resources of the University. Designed to help students develop academic success strategies and to improve learning skills. Students will interact with fellow students to build a community of academic and personal support. Introduces history as an academic discipline by requiring students to interpret historical information about issues such as academic freedom and the development of racism.

HIST 50. World History I: to 1500. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A comparative history of the world’s major civilizations that highlights human community’s increased level of connection. Explores the diverse global cultural, political, and economic patterns from the origins of complex societies to the birth of modern capitalism.

HIST 50H. World History I: to 1500. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Intensive comparative history of the world’s major civilizations that highlights human community’s increased level of connection. Explores the diverse global culture, political, and economic patterns from the origins of complex societies to the birth of modern capitalism.
HIST 51. World History from 1500 to the Present. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A survey of the increased inter-connections of the world's civilizations from the conquest of the Americas to the dawn of the 21st century. Explores the history of the human community's political development, culture diversity, and economic globalization.

HIST 51H. World History from 1500 to the Present. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

An intensive survey of the increased inter-connections of the world's civilizations from the conquest of the Americas to the dawn of the 21st century. Explores the history of the human community's political development, culture diversity, and economic globalization.

HIST 100. Introduction to Historical Skills. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the skills of secondary and primary source research, critical analysis of documentary sources, historical reasoning and the preparation of written reports. Attention to research procedures, record-keeping, citation, and bibliography.

Note: Open to History majors who have completed at least 6 units of required lower division coursework. Recommended for second semester of sophomore year.

HIST 100R. Developing Historical Skills. 3 Units
Prerequisite(s): HIST 100
Term Typically Offered: Fall, Spring

Further development of skills from HIST 100 in the areas of secondary and primary source research, critical analysis of documentary sources, and historical reasoning, ethics, and inquiry needed for the completion of an original research paper. Attention to research procedures and disciplinary writing and citation. Topic varies with instructor.

HIST 101A. Language and written culture in Ancient Greece. 3 Units
Term Typically Offered: Fall, Spring

This is part of the two-semester hybrid course on Ancient Greek language and written culture. The language component of the course is taught online through interactive language-teaching website, while the weekly meetings are mainly discussions on Ancient Greek texts in translation. The focus in this first part is on basic grammatical rules, the reading and construction of simple sentences, and the study of Greek written culture from its beginnings to the Classical Period. Cross Listed: WLL 120A; only one may be counted for credit.

HIST 101B. Language and written culture in Ancient Greece. 3 Units
Prerequisite(s): HIST 101A
Term Typically Offered: Spring only

This is the second part of a two-semester hybrid course on Ancient Greek language and written culture. The language component of the course is taught online through an interactive language-teaching website, while the weekly meetings are mainly discussions on Ancient Greek texts in translation. The focus in this second part is on advanced grammar, the reading and understanding of long passages, and the study of Greek written culture from the Classical Period to the Roman era. Cross Listed: WLL 120B; only one may be counted for credit.

HIST 102A. Culture and Language in Modern Greece, 1821-1909. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

This is the first part of a two-semester hybrid course on modern Greek language, history, and culture. This course is an introduction to the main cultural forces in history and literature that shape modern Greek society. It explores the historical development of modern Greek culture from the period of the Greek War of Independence to the present. Students will also obtain a basic level of modern Greek grammatical rules, the reading and writing of simple sentences, and basic everyday conversation skills.

HIST 102B. Culture and Language in Modern Greece, 1909-Present. 3 Units
Prerequisite(s): Student must complete HIST 102A with a minimum "C-" grade or better.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

This is the second part of a two-semester hybrid course on modern Greek language, history, and culture. This course is an introduction to the main cultural forces in history and literature that shape modern Greek society. It explores the historical development of modern Greek culture from the period of the Greek War of Independence to the present. Students will also obtain a basic level of modern Greek grammatical rules, the reading and writing of simple sentences, and basic everyday conversation skills.

HIST 103. Mediterranean Europe: From the Renaissance to the European Union. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Traces the development of Southern European countries from the Renaissance to European Union membership. These two "rebirths" for Europe had a unique impact on Portugal, Spain, Italy and Greece. Focuses on the political, economics, and cultural aspects of these Mediterranean countries.

HIST 104A. Ancient Science. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

An examination of the theories, experiments, and calculations of Greek and Roman scientists as well as the work of major contributors to astronomy, natural philosophy, medicine, and technology in the ancient period.

HIST 105. Great Ages and Issues in Modern European History. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or 5-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Advanced analysis of topics in modern European history from the Renaissance to the present. Emphasis is placed upon primary sources and contemporary as well as historical interpretations of the sources.

Note: Not open for credit to students receiving prior credit in HIST 5.
HIST 106. Everyday Life and Society in Antiquity. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

An overview of social beliefs and practices in a variety of ancient cultures, including Ancient Greece, Rome, and the Near East chronologically ranging from Late Prehistory to the rise of Christianity. All the examined themes are approached comparatively and on the basis of ancient historical evidence, consisting of both texts and archaeological materials.

HIST 107. History of the Physical Sciences. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (BS)
Term Typically Offered: Fall, Spring

Study of the development of the major physical laws presently used in describing our physical world. Some considerations of the influences of these developments on other areas of knowledge and on society in general.
Cross Listed: PHSC 107; only one may be counted for credit.

HIST 108. Ancient Egypt: History & Culture. 3 Units
Term Typically Offered: Fall, Spring

Overview of the history of ancient Egypt from prehistory to the Roman conquest, combined with a study of cultural development in areas of ancient Egyptian religion, art, and literature.

HIST 109. History of Modern Greece. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduces the fundamental events and figures that shaped modern Greek history and politics. Topics will include: the Greek War of Independence, the Megali Idea, the Asia Minor Catastrophe, and Greece’s entry into the European Union. No prior knowledge of Greece or Greek language assumed.

HIST 110. The Ancient Near East: A Cultural History. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Growth and development of Ancient Near Eastern civilization with emphasis on Mesopotamia and Egypt as the foundation of ancient Mediterranean civilization. Religion, literature, art and social institutions will all be stressed as integral elements in an historical process.

HIST 111. Ancient Greece. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Political, social, and cultural development of Greece from the Mycenaean to the post-Alexandrian world with emphasis on Fifth Century Athens and on a reading of Thucydides.

HIST 112. Ancient Rome. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Rome from its foundation to Justinian with emphasis on its political institutions, their strengths and weaknesses, social structure, the ancient economy, paganism and Christianity, and the end of ancient civilization.

HIST 113. Early Medieval Europe. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

The transformation of Mediterranean civilization from Late Antiquity to its three heirs: Western Europe, Byzantium and Islamic Civilization. Topics include: Late Antique Christianity, monasticism, economic and trade structures, Islamic conquests, Carolingian civilization, medieval archaeology and technology, and the origins of manorialism and feudalism.

HIST 114. Europe in the High Middle Ages. 3 Units
Term Typically Offered: Fall, Spring

Flourishing of European civilization from the Gregorian reform (11th century) until the end of the Middle Ages. Emphasizes the development of Latin Christianity, the formation of national communities in France and England, and the multi-faceted crisis of the 14th and 15th centuries.

HIST 115. The Renaissance and Reformation in Europe. 3 Units
Term Typically Offered: Fall, Spring

Survey of the development of Italian City States and their relation to Northern Europe; an examination of the relationship among commerce, capitalism and secular culture; a survey of Reformation and Counter-Reformation.

HIST 116. Europe, 1648-1815, The Age of Revolution. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Political and social survey of Europe with emphasis on (a) the scientific revolution and the Enlightenment, (b) absolutist monarchs and enlightened despots, (c) the American and French Revolutions, (d) Napoleon I, and (e) art, society and popular culture.

HIST 117. Europe, 1815-1914. 3 Units
Term Typically Offered: Fall, Spring

Consideration of historical trends in 19th Century Europe. Emphasis on Germany and France. Attention is devoted to liberalism, conservatism and nationalism; the industrial revolution, national unification, nationalism, imperialism and the rise of socialism.

HIST 118A. World War I: Causes, Conduct, Consequences. 3 Units
Term Typically Offered: Fall, Spring

Political and social development of Europe from the beginning of the 20th Century to the accession of Hitler to power in 1933 with emphasis on relations among the Great Powers.

HIST 118B. World War II: Causes, Conduct, Consequences. 3 Units
Term Typically Offered: Fall, Spring

Critical examination of political, military, social, and cultural transformations in the era of the Second World War. Particular emphasis will be placed on diplomatic relations between the Great Powers, military conduct during the war, the experience of fascism, the causes and ramifications of the Holocaust, and the war's cultural and political legacy in Europe.
HIST 119. Europe Since 1945.  3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of major developments in Europe since the end of World War II. Topics include: the basic intellectual structures of the 20th century; the origins of the Cold War; the rise of the EEC; decolonization; the political and social upheaval of the 1960's; détente; and the new preoccupation with nationalism and ethnic identity.

HIST 120A. History of Medicine, Ancient and Medieval.  3 Units
Term Typically Offered: Fall only

History of ancient-medieval medicine, the role of medicine in society, and attitudes toward illness and the body. Also covers alternative remedies such as magic and folk medicine. Primary focus on Greco-Roman medicine but also Sumerian, Egyptian, Christian and Islamic traditions.

HIST 121. Democracy and Human Rights in the Era of the French Revolution and Napoleon.  3 Units
Term Typically Offered: Fall, Spring

Explores the crucial social, cultural, intellectual, and political legacies of the Revolutionary and Napoleonic years (1789-1815) in France and across the globe. In particular, examines ideas and policies regarding religious toleration, democratic participation, slavery, gender, and nationalism.

HIST 122A. History of Women in Western Civilization, Prehistory-Middle Ages.  3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Emphasis on the lives and experiences of women as they relate to the fundamental characteristics of Western culture. Topics include women and religion, production and economic institutions, reproduction and family structures, power and politics, women's self-definition.

HIST 122B. History of Women in Western Civilization, Renaissance-Present.  3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Emphasis on the lives and experiences of women as they relate to the fundamental characteristics of Western culture. Topics include women and religion, production and economic institutions, reproduction and family structures, power and politics, women's self-definition.

HIST 122C. Women's Global Activism in the 20th Century.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines the development of women's movements for sexual equality and social justice across the world during the twentieth century. Emphasis placed on women from the Global South and on transnational feminist organization.

HIST 123. The Crusades.  3 Units
Term Typically Offered: Fall only

The Crusading movement from the eleventh through the thirteenth centuries. Explores the eight “official” Crusades, and explores the concept of “crusading” as Christian Holy War. Extensively covers the intersection of Byzantine, Islamic, Catholic, and Jewish cultures in the Middle Ages, and incorporates religious, social, military, and political history.

HIST 124A. Warfare: Alexander to Napoleon.  3 Units
Term Typically Offered: Fall, Spring

Conduct of war from 336 B.C. to 1815. Social and political consequences; development of weaponry, strategy and tactics; Great Captains.

HIST 124B. European Warfare from the French Revolution to the Present.  3 Units
Term Typically Offered: Fall, Spring

Study of the inception, conduct and impact of European warfare from the French Revolution to the present. Students will be required to complete one or more projects designed to increase their understanding of modern warfare and its implications.

HIST 125. Modern Germany, 1806-Present.  3 Units
Term Typically Offered: Fall, Spring

History of Germany from the fall of the Holy Roman Empire to the present. Topics will include the rise of German nationalism, the formation of the German nation-state, the Nazi era and the Holocaust, and postwar Germany's development.

HIST 126. Evolution of Christianity to the Reformation.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Christianity from Jesus to Martin Luther. Emphasis on the evolution of Christian thought and institutions and the relationship of the Church to popular culture and secular powers.
Cross Listed: HRS 126; only one may be counted for credit.

HIST 127. Evolution of Christianity Since the Reformation.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

European Christianity from the Reformation to the present. Emphasis on the evolution of Christian thought, the co-existence of the Catholic and Protestant traditions, and the relationship of religious and secular values in European society.
Cross Listed: HRS 127; only one may be counted for credit.

HIST 128A. Medieval England To 1485.  3 Units
Term Typically Offered: Fall only

Examines the developments of English history from the Celtic Bronze Age to the fifteenth century. Issues of race and ethnicity, gender, social classes, political ideology, religious toleration, economic developments, and artistic achievements will be examined in particular detail.

HIST 128B. Tudor and Stuart England, 1485-1714.  3 Units
Term Typically Offered: Fall, Spring

History of England from the consolidation of royal power under Henry VII to the Hanoverian succession. Emphasis on the Tudor Renaissance and Reformation, the growth of England’s international status under Elizabethan, Stuart rule, the Civil Wars, the dictatorship of Oliver Cromwell and the Restoration.
HIST 128C. British History, 1714-Present. 3 Units
Term Typically Offered: Fall, Spring
History of the British Isles from Hanoverians to the Present. Emphasis upon the rise of Parliament, industrialization, reform, rise of labor, the two World Wars, the Welfare State and contemporary Britain.

HIST 129A. Medieval Russia. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Emergence of modern Russia from the principalities of medieval Russia. Emphasis on Eastern European, Byzantine, and Eurasian contributions to Russian history.

HIST 129B. Imperial Russia. 3 Units
Term Typically Offered: Fall, Spring
Emergence and collapse of imperial Russia as a continental world power from 1600 to 1917. Emphasis on the role of monarchy, a changing society and economy, and the growth of the educated public in the development of a distinctive imperial Russian culture and its final destruction in revolution.

HIST 129C. Twentieth Century Russia. 3 Units
Term Typically Offered: Fall, Spring
Revolutionary origins of the Soviet Union, its rise as a global superpower, and its sudden dissolution. Emphasis on the major political, economic, social, and cultural trends that defined Soviet civilization, as well as the Soviet legacy for contemporary Russia and the world.

HIST 129D. A Cultural History of Russia. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
A historical survey of cultural expression in Russia. Emphasis on the changing role of elite and popular institutions as patrons and audiences, the definition of Russian culture through the canonization of content and form, and the relationship between politics and society as expressed in a variety of genres and media such as the visual arts, literature, music, and film.

HIST 130. The Fall Of Communism. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Causes and consequences of the dramatic transformations in the political, economic, and cultural life of the Soviet Union, eastern Europe, and China after 1970. Topics include "real-existing" socialism, Gorbachev and the revolutions of 1989, the emergence of China, impact on the non-socialist world, and implications for the future.

HIST 131. History of Sexuality in Comparative Perspective. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Survey of the comparative history of sexuality in the pre-modern and modern world (including the United States and Europe). Topics include the intersections of gender, sexuality, race, and social status across societies and time periods; religion and sexual norms; sex, sexuality and the rise of the nation-state; sex and imperialism; and sexuality and the law.

HIST 132. Topics In World History. 3 Units
Prerequisite(s): HIST 50.
Term Typically Offered: Fall, Spring
Designed for students who want to acquire multiple subject teaching credentials. Examines world history from a topical perspective, focusing on large themes and trends. Builds upon the detailed history taught in the HIST 50.

HIST 133. Twentieth-Century World History. 3 Units
Prerequisite(s): HIST 51 or HIST 51H
Term Typically Offered: Spring only
A survey of the major international themes and historical processes that shaped the twentieth century. Designed for History majors and present or prospective teachers of history.

HIST 134. The Rise and Fall of European Colonial Empires. 3 Units
Term Typically Offered: Fall, Spring
This course covers the origins of European colonialism in the Iberian expansion, the development of English and Dutch empires, the role of spices, slaves, sugar, and opium in the making of the modern global economy, the " New Imperialism" of the 19th Century, the anti-colonialist and nationalist movements, and the final collapse of the empires after World War II.

HIST 135A. History Of Mexico To 1910. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Emphasizes Meso-American culture, the creation and flourishing of Spanish colonial culture, the independence movements, and the trials and tribulations of nationhood in the 19th century.

HIST 135B. Revolutionary and Modern Mexico. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Political, social, economic and cultural history of the Mexican upheaval, from 1910 to 1920, and the development of Modern Mexico since 1920.

HIST 136. Spanish Civil War. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
In-depth examination of the Spanish Civil War (1936-1939) focusing on its social, political, and cultural contexts. The course also examines the war's historical origins, immediate aftermath and implications for understanding modern Spain. Cross listed: SPAN 129.

HIST 137A. Latin American Revolutions in the Twentieth Century. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only
Comparative analysis of twentieth-century Latin American revolutions. Considers economic and political causes, revolutionary aims, and historical outcomes.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>General Education Area/Graduation Requirement</th>
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<tr>
<td>HIST 137B</td>
<td>Latin American History in Film.  ➤</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Humanities (Area C2)</td>
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<td>Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.</td>
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<td>HIST 141</td>
<td>History of Africa Since 1800.  ➤</td>
<td>3</td>
<td>Fall, Spring</td>
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<td>General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)</td>
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<td>Term Typically Offered: Fall, Spring</td>
<td>An analysis of films representing Latin American history from conquest through present.</td>
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<td>HIST 142</td>
<td>History of Women in Africa.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Humanities (Area C2)</td>
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<td>General Education Area/Graduation Requirement: Humanities (Area C2)</td>
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<td>Term Typically Offered: Fall, Spring</td>
<td>Examines the role of African women in politics, religion, the economy, the family and the arts from ancient times to the present. Considers the varying status of women in different regions of the continent. Also looks at the impact of kinship structures on women, development issues, and African responses to feminist discourse.</td>
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<td>HIST 143A</td>
<td>Middle Eastern History to 1800.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Humanities (Area C2)</td>
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<td>General Education Area/Graduation Requirement: Humanities (Area C2)</td>
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<td>Term Typically Offered: Fall only</td>
<td>Surveys the history of the Muslim Middle East from the age of the Prophet Mohammed to the late Ottoman Empire. Topics include: the Islamic religious revolution; the splintering of the Islamic community into Sunnis, Shias and other Islamic minorities; the impact of Islam upon the European West; the Crusades; and Western influence at the end of the 18th century.</td>
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<tr>
<td>HIST 143B</td>
<td>The Modern Middle East.</td>
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<td>Spring only</td>
<td>Humanities (Area C2)</td>
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<td>General Education Area/Graduation Requirement: Humanities (Area C2)</td>
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<td>Term Typically Offered: Spring only</td>
<td>Surveys Middle Eastern history from 1800 to the present. Topics include: the late Ottoman Empire; World War I and state creation; western imperialism; Arab nationalism; Zionism; state building; modern economies and traditional societies; Islam and the modern state; and the Arab-Israeli conflict.</td>
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<td>HIST 143C</td>
<td>Ottoman State and Society.</td>
<td>3</td>
<td>Fall, Spring</td>
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<td>General Education Area/Graduation Requirement: Humanities (Area C2)</td>
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<td>Term Typically Offered: Fall, Spring</td>
<td>Overview of the history of the Ottoman Empire from its rise in the 13th century to its demise in the early 20th century. Topics include Ottoman state structure, military, economy, legal system, society, culture, and legacy.</td>
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<td>HIST 143D</td>
<td>The Arab-Israeli Conflict.</td>
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<td>Spring only</td>
<td>Humanities (Area C2)</td>
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<td>General Education Area/Graduation Requirement: Humanities (Area C2)</td>
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<td>Term Typically Offered: Spring only</td>
<td>Overview of the origins, evolution, and implications of the ongoing Arab-Israeli conflict. Focus will be on the role of external and internal factors in the emergence and escalation of the conflict, the opposing claims over Palestine, and the impact of the conflict on different groups in the region. Topics include colonialism, transition from empire to nation state, Jewish and Arab nationalism, secularism, the Cold War, religious revivalism, and identity.</td>
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<td>HIST 144</td>
<td>Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Humanities (Area C2)</td>
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<td>Term Typically Offered: Fall, Spring</td>
<td>Examines the domestic and international political, social, and economic context of the overthrow of Indonesian President Sukarno, the mass murder of perhaps a million individuals associated with the Indonesian Communist Party, and subsequent US-backed military dictatorship of General Suharto.</td>
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HIST 145. South Asian History & Civilization. 3 Units
Term Typically Offered: Fall, Spring
South Asian history from the Indus Valley Civilization to the 1947 partition of British India to the nation-states of India and Pakistan. Topics include: development of Hinduism, Buddhism, Jainism, and Sikhism; rise and fall of the Mauryan, Mughal, and British empires; Indian philosophy, art, literature, South Asian expressions of Islam, Judaism, and Christianity; elite and popular religious syncretism; gender and sexuality in South Asia; Portuguese and British colonialism; South Asian nationalism; and the life and thought of Mahatma Gandhi.

HIST 146A. Cultural History of Japan to 1800. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only
History of traditional Japan stressing developments in literature, drama, art, religion and philosophy in the context of political, social and economic development. Movies, slides and readings in Japanese literature will be used.

HIST 146B. Modern Japan, 1800-present. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only
Roots of modernization in late feudal Japan; Western impact; political, economic and social modernization; the growth and decline of democratic institutions; militarism and World War II; U.S. occupation; and Japan's impressive "success story" 1950-present.

HIST 146C. The History of Manga. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
A survey of the history of manga (Japanese graphic novels) that will trace the historical antecedents of manga from ancient Japan to today. The course will focus on major artists, genres, and works of manga produced in Japan and translated into English.

HIST 146D. A History of Anime. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only
A survey of the history of anime (Japanese animation) that will trace the historical antecedents of anime from the birth of cinema to today, with a focus on major artists, genres, and works of animation produced in Japan.

HIST 147. History of Buddhism. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Examines in cultural and historical perspective, drawing from ancient and contemporary sources, the key practices and ideas of Buddhist traditions in India, China, Southeast Asia, Tibet, Japan and other surrounding regions; as well as the most recent spread of these practices and ideas to Europe, North America, and Australia.
Cross listed: HRS 147

HIST 148A. China: Antiquity to 1600 AD. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only
Historical development of China from the Neolithic period to the end of the 16th Century. In addition to texts and records, other sources such as archaeology, literature, and art will be examined to gain understanding of and appreciation for the longevity of China as a culture and a polity. Traditionally neglected groups such as women and the lower classes will be emphasized.

HIST 148B. China, 1600 to Present. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only
The transformation of China since the 17th Century. Examines the internal tensions of population growth and social unrest, as well as external pressures of encroaching imperialism and modern values of freedom and democracy. Revolution, communism, modernization, and nationalism will be addressed.

HIST 149. The Making of Modern Southeast Asia. 3 Units
Term Typically Offered: Fall, Spring
Examines the historical formation of Southeast Asia, how European colonization integrated Southeast Asia into the global economic order, and how the region became a critical strategic zone in the Second World War and the Cold War. Traces the centuries long formation of nations of Southeast Asia, the second half will focus on political and economics developments of the 20th Century.

HIST 150. Colonial America. 3 Units
Term Typically Offered: Fall, Spring
Development of the British mainland colonies from exploration, contact, and settlement to the age of the American Revolution. Topics include: background to colonization; mercantilism, the emergence of a multicultural society; regional variation; Native Americans, slavery, women and family, community formation, religion, education, Enlightenment in America, European rivalries, imperialism.

HIST 150B. Early American Book History. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
A history of authorship, reading, and publishing in colonial American life; this course explores seventeenth and eighteenth century British North America where the spoken and printed word played an important part in the development of America before 1800.

HIST 151. The Age of the American Revolution. 3 Units
Term Typically Offered: Fall, Spring
Causes and consequences of the American Revolution. Topics include: Whig ideology, popular politics, loyalty, economic concerns, the western frontier, Native Americans, African-Americans, and women during the era, the course of the war with Great Britain, the Confederation and Constitution, social consequences of the Revolution.
HIST 151B. Founding Documents: American Democracy before 1800. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Explores the history behind the words of the Declaration of Independence and the Constitution of the United States of America. Topics include early American history, the American Revolution, and the Constitutional Convention of 1787.

HIST 152. Young Republic, 1790-1840. 3 Units
Term Typically Offered: Fall, Spring
Beginnings of government under the Constitution; the U.S. in a warring world; Thomas Jefferson and Andrew Jackson; market economy, canals and factories; nationalism, the debate over slavery, and emerging sectionalism.

HIST 153. Civil War and Reconstruction, 1840-1890. 3 Units
Term Typically Offered: Fall, Spring
Political history of the Civil War and Reconstruction. Topics include sectionalism; slavery, westward expansion, secession, the conduct of the war, industrialization, and the changing status of African Americans.

HIST 154. 20th Century United States, 1890-1940. 3 Units
Term Typically Offered: Fall, Spring
U.S. response to urban, industrial growth from the origin of the Spanish-American War to Franklin D. Roosevelt. Progressivism, Imperialism, World War I, the decade of the 1920's; Depression and the New Deal.

HIST 155. 20th Century United States, 1941-Present. 3 Units
Term Typically Offered: Fall, Spring
Social, economic, and cultural challenges and achievements in U.S. life as they are reflected in political history. Emphasis upon domestic affairs, supplemented by foreign concerns that have presented fundamental choices to the American people.

HIST 156. The Sixties: Years of Hope, Days of Rage. 3 Units
Prerequisite(s): HIST17B.
Term Typically Offered: Fall, Spring
Examines the key events and ideas that helped shape American politics and culture in the 1960s. Special emphasis placed on political power, race and racism, the role of dissent and social activism, and nonviolent civil disobedience. Covers the Vietnam War, the African-American Civil Rights movement, the Chicano movement, the women's movement, the counterculture, as well as social conflict and its resolution.

HIST 157. History of International Relations in the 20th Century. 3 Units
Term Typically Offered: Fall, Spring
Survey of the history of international relations (political, military, economic, cultural, and environmental) in the 20th century. Covers Europe, Asia, the Middle East, Africa, and the Americas, with emphasis on global events and issues from non-U.S. perspectives.

HIST 158. Military History of the United States. 3 Units
Term Typically Offered: Fall, Spring
Survey from the colonial militia to the present, including all military branches, with emphasis on the U.S. Army. In addition to doctrine, operations, weapons and warfare, focuses on the interrelationship of the military with the economic, social and political concerns of the American nation.

HIST 159. History of US Foreign Relations. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D
Term Typically Offered: Fall, Spring
Diplomatic, military, economic, and cultural relations between the U.S. and the world from 1789 to the present, with emphasis on the 20th Century; focus on transformation of U.S. into a global power.
Note: Fulfills state graduation requirement for U.S. History.

HIST 160. The United States in Vietnam, 1940-1975. 3 Units
Term Typically Offered: Fall, Spring
Case study of the making of foreign policy through seven presidencies. Identifies the causes of an American war in Vietnam and examines that involvement as a representative example of post-World War II U.S. globalism. Consideration of the domestic impact of the War and a critical examination of the "lessons" learned from it.

HIST 161. The American Vision. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D
Term Typically Offered: Fall, Spring
Media survey of American life from the beginnings to the present. Integrates slides of American art, architecture, popular culture, and technology with history, literature and contemporary music.
Note: Fulfills state graduation requirement for U.S. History.

HIST 162. Social History of the United States. 3 Units
General Education Area/Graduation Requirement: GE AREA D, United States History
Term Typically Offered: Fall, Spring
Survey of topics in American social history from the colonial period to the middle of the Twentieth Century. Subjects may include reform movements, immigration, racial problems, religion, medicine, and the role of women.
Note: Fulfills state graduation requirement for U.S. History.

HIST 163. The City in US History. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Role of the city in the American experience, with emphasis on the rapid urbanization of the 19th and 20th centuries. Attention given to the attractions and problems of urban life and to proposals for reforming the cities.

HIST 164. History of American Capitalism. 3 Units
Term Typically Offered: Fall, Spring
Survey of U.S. business from the colonial era to the present that places U.S. business in a global context. Examines how individual entrepreneurs and regulators have contributed to the development of the modern American political economy.
Cross Listed: GOVT 164; only one may be counted for credit.
HIST 165. American Environmental History. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Traces the changing relationship between human society and the natural environment from pre-colonial era to the present. Focuses on the interplay between industrialization and nature, and examines past and present environmental movements.
Cross Listed: ENV 165; only one may be counted for credit.

HIST 166. Popular Culture. 3 Units
Term Typically Offered: Fall, Spring

Focuses on entertainment and everyday life in America from the beginning to the present. Enhances the students’ understanding of how popular culture reflects and shapes the larger issues and institutions of American life.

HIST 167. History of American Women. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D
Term Typically Offered: Fall, Spring

Study of the role of women throughout American history with emphasis on the suffrage movement, abolitionism, and birth control. Considers the emancipation of women and their role in contemporary society.
Note: Fulfills state graduation requirement for U.S. History.

HIST 168. Images Of America. 3 Units
Prerequisite(s): GWAR certificate before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Interdisciplinary survey of major events, trends and figures in American history viewed through American literature, visual arts, music and architecture. The arts in America are studied in relation to major ideas, significant personalities and important historical events from the period of the early republic to the present.
Cross Listed: HRS 168; only one may be counted for credit.

HIST 169. Hollywood and America. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Chronological survey of American films and their cultural significance from the 1890's to the present. Focus on films produced in Hollywood, the contexts in which they were created, and the impact of Hollywood as a mythical place in the development of American culture.
Cross-listed: HRS 169; only one may be counted for credit.

HIST 170A. Sports in American History. 3 Units
Term Typically Offered: Fall, Spring

Explores the significance of sports in American history from the colonial era to the present. Examines how the social, cultural, and economic role of sports in the American experience intersects with race, class, gender, immigration, citizenship, and nationality. Considers the wide-ranging articulations of popular sports in the public imaginary throughout the 20th century.

HIST 170B. Queer Black Histories. 3 Units
Term Typically Offered: Spring only

This course explores central themes at the intersection of African American history and queer history to learn about the experiences of same sex loving and gender transgressing African Americans. Uses an interdisciplinary approach to explore historical and contemporary emergence of queer black identities, movements, and communities.

HIST 171A. American Indian History to 1840. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

History of North American native people from before the European invasion to 1840. Particular attention given to the formation of indigenous societies before and during European colonization of the Americas and to the experience of Indian cultures, societies, and nations in the early U.S.

HIST 171B. American Indian History since 1840. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

History of North American native people from 1840 to the present. Particular attention given to Indian nations’ engagement with the Indian policies of the United States and the persistence and adaptation of American Indian cultures, societies, and identities in the modern U.S.

HIST 172A. LGBTQ Histories. 3 Units
Term Typically Offered: Spring only

This course provides an introduction to the study of lesbian, gay, bisexual, transgender, and queer (LGBTQ) histories. Uses an interdisciplinary and comparative approach to explore the historical emergence and development of LGBTQ identities, communities, and political movements. Includes theoretical analysis of the history of gender and sexuality and the practice of historical analysis.

HIST 172B. The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring

Examines the campaign for civil rights waged by African Americans from the Reconstruction era through the present. Treats the movement’s roots, goals, main organizations, and its relationship with African American culture in this period. Includes a comparison with the experiences of Mexican Americans and Native Americans.

HIST 174A. History of Disability in the United States. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Study of mental and physical disability in United States history from colonial times to the present. Emphasizes disability as a social and cultural construction and examines how disability intersects with historical constructions of race, class, gender, and sexuality. Includes lived experiences of disabled Americans, changing cultural perceptions of disabled Americans, and disability activism and legislative action, including the passage of the Americans with Disabilities Act and its aftermath.
HIST 174B. History of Madness in the United States. 3 Units  
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5  
Term Typically Offered: Fall, Spring  
Study of psychiatric and intellectual disability and its diagnosis and treatment in United States history from colonial times to the present. Emphasizes madness as a social and cultural construction and explores how conceptions of madness intersect with historical constructions of race, class, gender, and sexuality. Examines the evolution of psychiatry and therapeutic practices for the treatment of patients, the lived experiences of disabled individuals, disability activism, portrayals of madness in popular culture, and the incarceration of disabled individuals in prisons.

HIST 174C. Disability in World History: A Comparative History. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring  
Cross-cultural comparison of mental, physical, and sensory disability in world history from ancient times to the present. Emphasizes disability as a social and cultural construction and examines how disability intersects with historical constructions of race, class, gender, and sexuality. Topical approach emphasizes the lived experiences of disabled individuals, cultural perceptions of disabled individuals in different times, periods, and places, and disability activism.

HIST 175A. Sex, Population, and Birth Control in America. 3 Units  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Spring only – odd years  
Explores efforts to control reproduction in America in the nineteenth and twentieth centuries. It examines the medical and legal institutions that shaped public policy and the general public’s response to efforts to regulate citizens’ reproduction, sexuality, and healthcare. It also investigates how race, ethnicity, class, and gender determined the types of reproductive choices available to Americans.

HIST 175B. Health, Death and Disease in America. 3 Units  
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D  
Term Typically Offered: Spring only – even years  
An examination of American medicine from the colonial era through the present from a multi-cultural perspective, including how measures of health determined the monetary value of enslaved Americans in the colonial and antebellum eras and how Americans ability to access healthcare has been based upon their race, class, gender, and (dis)ability. Also addresses challenges to established medical practices launched by the women’s health movement, civil rights activists, the Black Panther Party, and the right-to-die movement.

HIST 176A. African Cultural Heritage in the Americas. 3 Units  
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)  
Term Typically Offered: Fall, Spring  
Focuses on the legacies of African cultural and social systems among the diasporic Africans in the Americas in the 19th and 20th centuries. Primary focus is on the U.S., but also examines African retentions in Jamaica, Haiti, Cuba, and South America.

HIST 177. The African-American Experience, 1603-Present. 3 Units  
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), United States History  
Term Typically Offered: Fall, Spring  
Gives students an understanding of African-American history from the colonial period to the present. Focuses on African-Americans as active agents in shaping U.S. History, and analyzes the issues, ideas and strategies they have developed and used in their struggle for justice and equality.  
Note: Fulfills the state graduation requirements for U.S. History.

HIST 178. Mexican-American History. 3 Units  
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D  
Term Typically Offered: Fall, Spring  
Explores the contours of Mexican American history from the Spanish colonial experience through the present. Examines the roots of the Chicano community in the U.S. conquest of the Southwest, the twentieth-century immigration experience, the development of diverse Chicano communities after 1900, and the struggles for full civil rights in American society. Compared with the experiences of African Americans and Native Americans.

HIST 179. American Immigration History. 3 Units  
Term Typically Offered: Fall, Spring  
Study of immigration in American life. Particular attention given to the shifting causes and patterns of immigration, similarities and differences among the experiences of immigrants in the U.S., nativism, the development of immigration restrictions, and the effects of immigration on the life of the nation over time.

HIST 180. American Legal History. 3 Units  
Term Typically Offered: Fall only  
Examines the interaction of law, society, and politics in America from the colonial period to the present, with special emphasis on law as an arena of social and cultural conflict. Major topics include the development of the common law in early America; the law of slavery and its impact on constitutional development; the role of the law in defining controversies over race and gender; legal thought and education; and the role of the Supreme Court in 20th Century America.

HIST 181. Anarchists and Revolutionaries: Transnational Radicalism in America. 3 Units  
Term Typically Offered: Fall, Spring  
This course explores the intersection of anti-authoritarian ideologies, transnational migration and anarchist movements in the United States. It will focus on the time period of 1871 through 1940 and the ways in which concepts of "liberty" informed radical movements. Topics may include: European and Caribbean origins of anti-authoritarianism, immigrant enclaves, radical labor, anarchism, anarchist periodicals, and selected liberation movements.

HIST 182. American West. 3 Units  
Term Typically Offered: Fall, Spring  
Study of the Spanish and Indian frontiers, the advance of the Anglo-American settlers, and the emergence of the modern West.
HIST 183A. California History, 1542-1860. 3 Units
Term Typically Offered: Fall, Spring
Study of the people, institutions and cultural influence of Spanish-Mexican California and the changes brought by U.S. conquest and the Gold Rush.

HIST 183B. California History, 1860-1970. 3 Units
Term Typically Offered: Fall, Spring
Study of the social, political and economic evolution of California from construction of the first continental railroad link to the present, focusing on issues which are still significant in the state.

HIST 184. California Architecture and Urban History. 3 Units
Term Typically Offered: Fall, Spring
A survey of the history of California architecture and its impact on the urban environment from Native Americans to the 20th Century. Particular attention will be given to architecture as a statement of social, economic, and political empowerment. Cross Listed: ART 118B; only one may be counted for credit.

HIST 185. California Indian History. 3 Units
Term Typically Offered: Fall, Spring
Historical study of California’s native people and Indian-white relations from the Spanish colonial era to the present.

HIST 186A. The California Gold Rush. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall only
Study of the social, cultural, economic, political, and environmental influences of the California Gold Rush in the contexts of state, national, and world history.

HIST 186B. History of California Water. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Term Typically Offered: Fall
Study of the history of water in California, including its social, cultural, legal, economic, political, land use, and environmental significance.

HIST 186C. Sacramento History. 3 Units
Term Typically Offered: Fall only
Surveys the history of Sacramento and the lower Sacramento Valley through the nineteenth, twentieth, and early twenty-first centuries. Using local history methodologies, explores landscape change and patterns of community development in Sacramento and situates the city and region within national and global historical contexts.
HIST 192C. Seminar in Recent Interpretations of Asian History. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of Asian history. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 192E. Seminar in Recent Interpretations of African History. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of African history. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 192F. Seminar in Recent Interpretations of Latin American History. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of Latin American history. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 192G. Seminar in Recent Interpretations of a Special Topic. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of a special topic. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 193. Public History. 3 Units
Prerequisite(s): HIST 100
Term Typically Offered: Fall, Spring

Note: Field trip. Students will be required to attend field trips to public history institutions both on and off campus.

Field trip(s) may be required.

HIST 194. Oral History: Theory and Practice. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M/W and HIST 100.
Term Typically Offered: Fall, Spring

Introduces students to the theory and practice of oral history. Examines ethical and legal issues as well as problems of accuracy in memory. Students will also learn how to conduct, transcribe, and edit oral histories and develop oral history projects.

HIST 195A. History Internship. 3 Units
Prerequisite(s): Permission of the faculty internship director.
Term Typically Offered: Fall, Spring, Summer

Supervised work and project experience with history-related agencies and organizations, developing entry level skills. May not be repeated for credit.
Credit/No Credit

HIST 195B. Advanced History Internship. 3 Units
Prerequisite(s): HIST 195A and permission of the faculty internship director.
Term Typically Offered: Fall, Spring, Summer

Supervised work and project experience with history-related agencies and organizations, developing more advanced entry level skills and practice in communicating history to public audiences. May not be repeated for credit.
Credit/No Credit

HIST 195C. History Pre-credential Internship. 3 Units
Prerequisite(s): HIST 17A, HIST 17B, HIST 50, HIST 51, and HIST 195A and permission of the faculty internship director.
Term Typically Offered: Fall, Spring

Supervised classroom observations and historical research to assist with curriculum development in secondary grade level history classrooms, with accredited schools, teaching related agencies and organizations. Students improve historical research skills, content mastery, and develop knowledge of using primary sources in history teaching. Students are exposed to secondary grade level history classrooms and observe instructional methods.
Note: Limited to upper division majors in the pre-credential program and students who have an interest in teaching history at the secondary level.
Credit/No Credit

HIST 195D. Advanced History Pre-credential Internship. 3 Units
Prerequisite(s): Permission of the faculty internship director.
Term Typically Offered: Fall, Spring

Supervised classroom observations and historical research to assist with curriculum development in secondary grade level history classrooms, with accredited schools, teaching related agencies and organizations. Students improve historical research skills, content mastery, and develop knowledge of using primary sources in history teaching. Students are exposed to secondary grade level history classrooms and observe instructional methods.
Note: Limited to upper division majors in the pre-credential program and students who have an interest in teaching history at the secondary level.
Credit/No Credit

HIST 196. Black Jesus: A History of Race and Religion in the Americas. 3 Units
Term Typically Offered: Fall, Spring

Examination of religion in the African Diaspora from the colonial period to the present. An introduction to Vodou, Santería, Candomblé, and Hoodoo (Conjure). Exploration of how African religious ideas, practices, and tradition have shaped religious cultures and communities in the Americas.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td>HIST 197A</td>
<td>Senior Research Seminar: United States History</td>
<td>3</td>
<td>Research seminar in historical writing in which students will complete a research paper in United States History based on primary sources. Subject will vary according to instructor. Recommended for the second semester of the senior year.</td>
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<td><strong>Note:</strong> Not open to lower division students.</td>
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<tr>
<td>HIST 197B</td>
<td>Senior Research Seminar: World History</td>
<td>3</td>
<td>Research seminar in historical writing in which students will complete a research paper in world history based on primary sources. Subject will vary according to instructor. Recommended for the second semester of the senior year.</td>
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<td><strong>Note:</strong> Not open to lower division students.</td>
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<tr>
<td>HIST 197C</td>
<td>Senior Research Seminar: Public History</td>
<td>3</td>
<td>Introduction to bibliographic and research skills in secondary and primary sources, and the development of expertise in writing historical reports. Particular attention to regional research libraries, manuscript repositories and archival facilities.</td>
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<td><strong>Note:</strong> Not open to lower division students.</td>
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<tr>
<td>HIST 198</td>
<td>Summative Assessment for Teachers</td>
<td>3</td>
<td>Capstone seminar that serves as a bridge between academic preparation and entry into a professional teacher credential program. Students will examine social science-history in the State curriculum framework, reflect on subject matter preparation, focus on middle and high school social science teaching and learning, investigate and evaluate resources pertinent to instruction, and explore current issues in education.</td>
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<td><strong>Term Typically Offered:</strong> Fall, Spring</td>
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<tr>
<td>HIST 199</td>
<td>Special Problems</td>
<td>1-3</td>
<td>Individual projects or directed reading. Open only to students who appear competent to carry on individual work. Credit/No Credit.</td>
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<td><strong>Term Typically Offered:</strong> Fall, Spring</td>
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<tr>
<td>HIST 200</td>
<td>History and Theory</td>
<td>3</td>
<td>Study of the theoretical schools and debates that have most influenced historical research and writing in the modern era. Introduces students to both important theoretical texts and their applied use. It is designed to provide an intellectual foundation for subsequent graduate-level history seminars.</td>
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<td><strong>Note:</strong> Graduate Writing Intensive (GWI) course.</td>
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<td><strong>Term Typically Offered:</strong> Fall, Spring</td>
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<tr>
<td>HIST 201</td>
<td>Interpreting World History</td>
<td>3</td>
<td>Study of historical interpretations of major issues and problems in world history. Helps students to define world history as a field and to consider different approaches to teaching and/or researching world history topics.</td>
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<td><strong>Term Typically Offered:</strong> Fall, Spring</td>
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<tr>
<td>HIST 202</td>
<td>Interpreting U.S. History</td>
<td>3</td>
<td>Study of historical interpretations of major issues and problems in US history. Helps students to define US history as a field and to consider different approaches to teaching and/or researching US history topics.</td>
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<td><strong>Term Typically Offered:</strong> Fall, Spring</td>
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<tr>
<td>HIST 203</td>
<td>Public History Principles and Techniques</td>
<td>3</td>
<td>Provides an introduction to public history by surveying the major topics in the field through readings, discussion, and guest lectures. Students will learn about the history of public history, employment opportunities for public historians, and public historical issues.</td>
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<td><strong>Note:</strong> Graduate Writing Intensive (GWI) course.</td>
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<tr>
<td>HIST 209A</td>
<td>Research and Writing in US History</td>
<td>3</td>
<td>Research seminar in fields of special interest. Topics will be announced each semester.</td>
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<td><strong>Term Typically Offered:</strong> Fall, Spring</td>
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<tr>
<td>HIST 209B</td>
<td>Research and Writing in the History of the American West</td>
<td>3</td>
<td>Research seminar in fields of special interest in the history of the American West. Topics will be announced each semester.</td>
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<td><strong>Note:</strong> May be repeated for credit provided the period or the topic is different.</td>
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<tr>
<td>HIST 209C</td>
<td>Research and Writing in World History</td>
<td>3</td>
<td>Research seminar in fields of special interest in the history of regions outside the U.S. Topics will be announced each semester.</td>
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<td><strong>Note:</strong> May be repeated for credit provided the period or the topic is different.</td>
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<tr>
<td>HIST 280A</td>
<td>Reading Seminar in African or Asian History</td>
<td>3</td>
<td>Extensive reading and analysis of the significant historical literature on a topic in African or Asian history. The area or topic to be studied will change from term to term.</td>
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<td><strong>Note:</strong> May be repeated for credit provided the period or the topic is different.</td>
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</table>
HIST 280B. Reading Seminar in Ancient or Medieval European History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature on a topic in ancient or medieval European history. The area or topic to be studied will change from term to term.
Note: May be repeated for credit provided the period or the topic is different.

HIST 280C. Reading Seminar in Modern European History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature on a topic in early modern or modern European history. The area or topic to be studied will change from term to term.
Note: May be repeated for credit provided the period or the topic is different.

HIST 280Z. Reading Seminar: Topics in United States History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of significant historical literature of a particular period or topic in U.S. history; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 281A. Reading Seminar in Colonial or Early US History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature of a particular period or topic in colonial North American or early U.S. history; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 281B. Reading Seminar in Nineteenth Century US History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature of a particular period or topic in nineteenth century U.S. history; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 281C. Reading Seminar in Modern US History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature of a particular period or topic in U.S. history after 1900; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 281Z. Reading Seminar: Topics in United States History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of significant historical literature of a particular period or topic in U.S. history; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 282A. Research Seminar in Public History. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Professional training in the research and analysis of cartographic, archival, architectural, and artifactual sources related to public history. Attention to such research areas as cultural resources management, environmental impact, and historic sites and structures.

HIST 282B. Archives and Manuscripts. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Professional training in archives and manuscripts administration. Historical development of archives and manuscripts administration, theoretical concepts that underlie the discipline, integration of these concepts into practice, and various uses of archival resources.

HIST 282C. Oral History. Theory and Practice. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Professional training in oral history, with attention to the field’s historical and theoretical development. Emphasis is placed on the methodology of oral history in the context of selected public history topics. Students learn to prepare for, conduct, transcribe, and edit oral history interviews.

HIST 282D. Museum Studies. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Intensive introduction to museum theory, practice, and management. Concentrates on providing an understanding of museums including museum exhibitions, collections, and acquisition policy. Students will have opportunities for practical museum experience and for meeting museum professionals.

HIST 282E. Historic Preservation. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Overview of the different aspects of historic preservation, including downtown revitalization, neighborhood organization, historic site management, preservation legislation, preservation education and historic architecture. The history of historic preservation in the U.S. Students will engage in on-site visits to historic sites.

HIST 282F. History and Memory. 3 Units
Prerequisite(s): Classified standing in Public History, History or instructor permission.
Term Typically Offered: Fall, Spring

Study of theoretical schools and debates regarding the formation, transformation, and transmission of collective memory. Draws upon theoretical literature on group memories from the social sciences and humanities, and it examines the importance of this literature for public and academic historians.
HIST 282G. Cultural and Heritage Tourism. 3 Units
Term Typically Offered: Fall, Spring
Seminar course that explores the theory and methods of cultural and heritage tourism as it pertains to experiences locally and globally. Topics include interpretation, audience interaction, and the economic, social, and political implications of heritage travel. Field trips and collaborative course project are required. Field trip(s) may be required.

HIST 282Z. Special Topics in Public History. 3 Units
Prerequisite(s): HIST 203 or instructor permission.
Term Typically Offered: Fall
Intensive seminar in a particular topic related to public history studies. Topics may vary and may include exhibit design, digital production, world heritage, cultural landscape, or other specialized knowledge in the field.

HIST 290. Clio: Editing and Publishing in History. 3 Units
Term Typically Offered: Spring only
Seminar devoted to learning the editing and publishing side of the history profession. Students will produce the student history journal Clio.

HIST 295. History Internship. 3 Units
Prerequisite(s): Graduate status and permission of faculty internship director.
Term Typically Offered: Fall, Spring
Supervised work and project experience with history-related agencies and organizations, developing entry-level professional skills.
Note: May be repeated for credit
Credit/No Credit

HIST 297. Advanced Internship. 3 Units
Prerequisite(s): HIST 295 and permission of the faculty internship director.
Term Typically Offered: Fall, Spring
Professional work experience in a specialized field of public history, with training and supervision as part of the Capital Campus Graduate Program in Public History.
Credit/No Credit

HIST 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work; May be repeated for credit.
Credit/No Credit

HIST 400. The Teaching of History in College. 3 Units
Term Typically Offered: Fall, Spring
Seminar devoted to the teaching of college history. Students will intern in lower division courses.

HIST 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring
Credit given upon successful completion of one of the following: A.) Thesis. An original contribution to historical knowledge, which includes the statement of a problem, a review of pertinent literature, the collection and presentation of relevant material, a conclusion, and a formal bibliography, all presented with appropriate documentation; OR B.) Project. A significant undertaking appropriate to public history, based upon the relevant literature, research skills, and applied expertise in areas of professional concern. Available for MA, Public History Option students only, OR C.) Comprehensive Examination. Structured and supervised reading programs for MA candidates preparing for the History Comprehensive Examination.

BA in History

Units required for Major: 45
Total units required for BA: 120

Program Description

History, in the broad sense, is the study of all human experience. It examines the people, institutions, ideas, and events from the past to the present. The study of history contributes to cultural literacy and develops critical thinking and other useful skills while helping students understand the present and plan for the future. Historical study provides a solid, fundamental preparation for careers in business, industry, government, and education. It also serves as excellent preparation for law school, foreign service, international work, urban affairs, historical consulting, and library science.

History is an academic discipline offering both breadth and focus. At Sacramento State, the History major includes four lower division survey courses and three upper division seminars. In addition, students choose seven upper division electives from a wide variety available. The flexibility of the major allows students to focus on topical areas such as: women's history, the history of particular geographic areas, cultural history, ethnic group history, economic history, military history, and history from the ancient world to that of the U.S. in the 20th Century. Teaching credential candidates should complete the History/Social Science Pre-credential Program.

Minimum Grade Requirement

A minimum grade of "C-" is required in courses applied to the major.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Lower Division Courses (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 17A</td>
<td>United States History, 1607-1877 1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 17B</td>
<td>United States History, 1877-Present 1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 50</td>
<td>World History I: to 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 51</td>
<td>World History from 1500 to the Present.</td>
<td>3</td>
</tr>
<tr>
<td>Required Upper Division Courses (15 Units) 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 100</td>
<td>Introduction to Historical Skills</td>
<td>3</td>
</tr>
<tr>
<td>HIST 100R</td>
<td>(Developing Historical Skills) 1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 133</td>
<td>Twentieth-Century World History</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Credit given upon successful completion of one of the following: A.) Thesis. An original contribution to historical knowledge, which includes the statement of a problem, a review of pertinent literature, the collection and presentation of relevant material, a conclusion, and a formal bibliography, all presented with appropriate documentation; OR B.) Project. A significant undertaking appropriate to public history, based upon the relevant literature, research skills, and applied expertise in areas of professional concern. Available for MA, Public History Option students only, OR C.) Comprehensive Examination. Structured and supervised reading programs for MA candidates preparing for the History Comprehensive Examination.

2 Students must complete a minimum of 15 units of upper division courses and seven upper division electives from a wide variety available. The flexibility of the major allows students to focus on topical areas such as: women's history, the history of particular geographic areas, cultural history, ethnic group history, economic history, military history, and history from the ancient world to that of the U.S. in the 20th Century. Teaching credential candidates should complete the History/Social Science Pre-credential Program.
HIST 192A  Seminar in Recent Interpretations of United States History
HIST 192B  Seminar in Recent Interpretations of European History
HIST 192C  Seminar in Recent Interpretations of Asian History
HIST 192E  Seminar in Recent Interpretations of African History
HIST 192F  Seminar in Recent Interpretations of Latin American History
HIST 192Z  Seminar in Recent Interpretations of a Special Topic

Select one of the following: 3

HIST 197A  Senior Research Seminar: United States History
HIST 197B  Senior Research Seminar: World History
HIST 197C  Senior Research Seminar: Public History

Upper Division Electives (15 Units)
Select one of the following courses in Historically Underrepresented Communities in the U.S. 3

HIST 167  History of American Women
HIST 171A  American Indian History to 1840
HIST 171B  American Indian History since 1840
HIST 172A  LGBTQ Histories
HIST 172B  Queer Black Histories
HIST 173  The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present
HIST 174A  History of Disability in the United States
HIST 174B  History of Madness in the United States
HIST 174C  Disability in World History: A Comparative History
HIST 175A  Sex, Population, and Birth Control in America
HIST 175B  Health, Death and Disease in America
HIST 176A  African Cultural Heritage in the Americas
HIST 177  The African-American Experience, 1603-Present
HIST 178  Mexican-American History
HIST 179  American Immigration History

Select four additional upper division history courses selected in consultation with an advisor 12

Upper or Lower Division Elective (3 Units)
Select one History course at the upper or lower division level in consultation with an advisor. 3

Total Units 45

Students should consult with a faculty advisor in their first semester at Sacramento State.
Study of a foreign language is recommended.
For substitutions in requirements, students should consult with a faculty advisor early in their program. Substitutions require the approval of the Department Chair.

General Education Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area B: Physical Universe and Its Life Forms (13 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Area C: Arts and Humanities (12 Units)</strong></td>
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</tr>
<tr>
<td>C1</td>
<td>Arts</td>
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</tr>
<tr>
<td>C2</td>
<td>Humanities 3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area D: The Individual and Society (9 Units)</strong></td>
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<tr>
<td>Area D</td>
<td>Course 3</td>
<td>3</td>
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<tr>
<td>Area D Course</td>
<td>Take upper-division course to complete Area &amp; upper division requirements.</td>
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<td></td>
<td><strong>Area E: Understanding Personal Development (3 Units)</strong></td>
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<tr>
<td>Area E</td>
<td>Course 4</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Area P: Ethic Studies (3 Units)</strong></td>
<td></td>
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<tr>
<td>Area F</td>
<td>Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
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</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 HIST 10 recommended.

3 Required in Major; also satisfies GE.

4 HIST 21 recommended.

Graduation Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Graduation Requirements (required by CSU) (6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History 2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
</tbody>
</table>

Notes:

Course also satisfies General Education (GE)/Graduation Requirement.

HIST 100, 100R, and 197 form a research and writing sequence in the major. History majors should take HIST 100 in the second semester of their sophomore year or the first semester of their junior year (or after completion of at least 9 units of the required lower division coursework for the major). Students should complete a WPI portfolio in the same semester as they take HIST 100 and the following semester should take HIST 100R. HIST 100R is in turn a prerequisite for HIST 197, which should be typically completed in a student's final semester. Ideally, HIST 192 should be completed the semester before HIST 197.

For substitutions in requirements, students should consult with a faculty advisor early in their program. Substitutions require the approval of the Department Chair.
Writing Intensive (WI) 3
Graduation Requirements (required by Sacramento State) (9 Units)
English Composition II 3
Race and Ethnicity in American Society (RE) 2 0
Foreign Language Proficiency Requirement 3 6

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement.

3 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C” or better required.

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

MA in History (Comprehensive Option)

Total units required for the MA: 30

Program Description
The Master of Arts program in History introduces students to the use of the historical method, the critical investigation of problems in historical study, and the analysis and interpretation of primary source material. These skills are valuable in many professions, especially to students interested in pursuing graduate study culminating in the doctorate in History, experienced teachers of history in public schools, students who wish to teach in California Community Colleges, and to students seeking employment in archival management, oral history, consulting, and public sector historical research.

California State University, Sacramento is well situated to offer rich historical resources in several fields of study. The California State Archives, the California State Library and the Sacramento Archives and Museum Collection Center offer unique opportunities for the study of Western and California History. The presence of many state and community agencies dealing with historic preservation offers possibilities for stimulating internships, and the history graduate program is also able to draw upon rich materials in a number of areas of United States, European, and world history located in the Sacramento State Library.

Admission Requirements
Admission as a classified graduate student in the Standard History program requires:

• a baccalaureate degree;
• an undergraduate major in History, OR a minimum of 27 semester units in History, or a closely related field, approved by the Graduate Coordinator. Fifteen of the units must be upper division and include one seminar from the HIST 192 series (or equivalent) and one seminar from HIST 197 series (or equivalent); and

• a minimum 3.0 GPA in the last 60 units attempted and a minimum 3.25 GPA in History courses.

Students who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted to the degree program with conditionally classified graduate status. Any deficiencies will be noted on a written response to the admission application. The department Graduate Coordinator will specify courses to be taken by students with fewer than 27 units of history and/or without the required seminars. Work taken to remove such deficiencies may not be counted toward the master’s degree.

Admission Procedures
Applicants should apply online following the guidelines in the History Department’s website. The official deadlines are September 15 for Spring admission and February 15 for Fall admission.

All applicants, including Sacramento State graduates, must submit the following to the Office of Graduate Studies:

• an online application;
• Application Fee as required by the CSU system (You can pay this when you are filling out your online application)
• an official copy of all transcripts from colleges and universities attended, other than Sacramento State.

All applicants, including Sacramento State graduates, must submit the following supplemental application:

• one statement of purpose that attests to one’s qualifications and the ability to complete a professional degree program in History. This statement should include an applicant’s reasons for applying to the Master’s program, career objectives, and an explanation of how the program will help the applicant achieve them. It should also include relevant professional training, experience, internships, or volunteer activities, and any non-academic skills, interests, and notable accomplishments that may be pertinent to the pursuit of a graduate degree in History. While there is no page limit on this statement, the department encourages statements of approximately 500 words;

• two letters of recommendation that attest to their qualifications and ability to complete a professional degree program in History. These letters should ideally come from university instructors, but if these are not available, another credible individual who can address an applicant’s qualifications will be acceptable;

• an academic writing sample. Our strong preference is for a history research paper that integrates primary and secondary source evidence. Please select a sample of seven (7) to twenty (20) pages. You may provide a larger sample.

For more admissions information please visit https://www.csus.edu/graduate-studies/future-students/application-information.html#admission-requirements and https://www.csus.edu/college/arts-letters/history/admissions-history-ma-program.html.

Applicants will be informed of the Admission Committee’s decision within six weeks of the Department’s application deadline.

Minimum Units and Grade Requirements for the Degree

Units required for the MA: 30
Minimum Cumulative GPA: 3.0

Advancement To Candidacy
Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one 200-level course;
- determined with the History Graduate Coordinator whether to attempt the thesis, examination, or project (Public History and Specialized Options only) as the Culminating Requirement;
- determined which department faculty member will supervise the student’s work and act as his/her History advisor;
- filed and received departmental approval of a Petition for Approval of Thesis/Examination/Project (only in the Public History and Specialized Options); and
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

Students must file their Advancement to Candidacy in the semester prior to enrolling in HIST 500, Culminating Experience.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with his/her History advisor. The completed form is then returned to the Graduate Coordinator and the Office of Graduate Studies for approval.

Note: A foreign language is not a degree requirement. However, students who plan further graduate study in History are encouraged to study French, German, or another foreign language since proficiency in two foreign languages is usually required in doctoral programs.

Program Requirements

Required Courses (21 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 200</td>
<td>History and Theory</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201</td>
<td>Interpreting World History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>Interpreting U.S. History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 400</td>
<td>The Teaching of History in College (May be replaced with an additional HIST 280 or HIST 281 series course with approval of Graduate Coordinator)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3 units

- HIST 209A Research and Writing in US History
- HIST 209B Research and Writing in the History of the American West
- HIST 209C Research and Writing in World History

Select one of the following: 3 units

- HIST 280A Reading Seminar in African or Asian History
- HIST 280B Reading Seminar in Ancient or Medieval European History
- HIST 280C Reading Seminar in Modern European History
- HIST 280Z Reading Seminar: Topics in World History

Electives (6 Units)
Select 6 units 1

Culminating Requirement (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 500</td>
<td>Culminating Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 30

1 Elective courses in History (graduate seminars or upper division courses) and up to 3 units from fields, as approved by History. HIST 280 and HIST 281 series courses may be repeated and counted in this area if the course topic is different.

2 Students may not enroll in HIST 500 until all "Incomplete" grades received up to that point are completed. Students who receive "Incomplete" grades in coursework after enrolling in HIST 500 will not receive final approval on thesis or examination until a passing grade has been assigned to incomplete coursework.

MA in History (Specialized Option)

Total units required for the MA: 30

Program Description
The Master of Arts program in History introduces students to the use of the historical method, the critical investigation of problems in historical study, and the analysis and interpretation of primary source material. These skills are valuable in many professions, especially to students interested in pursuing graduate study culminating in the doctorate in History, experienced teachers of history in public schools, students who wish to teach in California Community Colleges, and to students seeking employment in archival management, oral history, consulting, and public sector historical research.

California State University, Sacramento is well situated to offer rich historical resources in several fields of study. The California State Archives, the California State Library and the Sacramento Archives and Museum Collection Center offer unique opportunities for the study of Western and California History. The presence of many state and community agencies dealing with historic preservation offers possibilities for stimulating internships, and the history graduate program is also able to draw upon rich materials in a number of areas of United States, European, and world history located in the Sacramento State Library.

Admission Requirements
Admission as a classified graduate student in the Standard History program requires:

- a baccalaureate degree;
- an undergraduate major in History, OR a minimum of 27 semester units in History, or a closely related field, approved by the Graduate Coordinator. Fifteen of the units must be upper division and include one seminar from the HIST 192 series (or equivalent) and one seminar from HIST 197 series (or equivalent); and
- a minimum 3.0 GPA in the last 60 units attempted and a minimum 3.25 GPA in History courses.
Students who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted to the degree program with conditionally classified graduate status. Any deficiencies will be noted on a written response to the admission application. The department Graduate Coordinator will specify courses to be taken by students with fewer than 27 units of history and/or without the required seminars. Work taken to remove such deficiencies may not be counted toward the master’s degree.

**Admission Procedures**

Applicants should apply online following the guidelines in the History Department’s website.

All applicants, including Sacramento State graduates, must submit the following to the Office of Graduate Studies:

- an online application;
- Application Fee as required by the CSU system (You can pay this when you are filling out your online application)
- an official copy of all transcripts from colleges and universities attended, other than Sacramento State.

All applicants, including Sacramento State graduates, must submit the following supplemental application:

- one statement of purpose that attests to one's qualifications and the ability to complete a professional degree program in History. This statement should include an applicant’s reasons for applying to the Master’s program, career objectives, and an explanation of how the program will help the applicant achieve them. It should also include relevant professional training, experience, internships, or volunteer activities, and any non-academic skills, interests, and notable accomplishments that may be pertinent to the pursuit of a graduate degree in History. While there is no page limit on this statement, the department encourages statements of approximately 500 words;
- two letters of recommendation that attest to their qualifications and ability to complete a professional degree program in History. These letters should ideally come from university instructors, but if these are not available, another credible individual who can address an applicant’s qualifications will be acceptable;
- an academic writing sample. Our strong preference is for a history research paper that integrates primary and secondary source evidence. Please select a sample of seven (7) to twenty (20) pages. You may provide a larger sample.

**Minimum Units and Grade Requirements for the Degree**

Units required for the MA: 30
Minimum Cumulative GPA: 3.0

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses (18 Units)</strong></td>
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<tr>
<td>HIST 200</td>
<td>History and Theory</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>HIST 201</td>
<td>Interpreting World History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>Interpreting U.S. History</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>HIST 209A</td>
<td>Research and Writing in US History</td>
<td>3</td>
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<tr>
<td>HIST 209B</td>
<td>Research and Writing in the History of the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American West</td>
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<tr>
<td>HIST 209C</td>
<td>Research and Writing in World History</td>
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<tr>
<td>Select three of the following:</td>
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<tr>
<td>HIST 280A</td>
<td>Reading Seminar in African or Asian History</td>
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<tr>
<td>HIST 280B</td>
<td>Reading Seminar in Ancient or Medieval</td>
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<td>European History</td>
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<td>HIST 280C</td>
<td>Reading Seminar in Modern European History</td>
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<td>HIST 280Z</td>
<td>Reading Seminar: Topics in World History</td>
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<td>HIST 281A</td>
<td>Reading Seminar in Colonial or Early US</td>
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<td>HIST 281B</td>
<td>Reading Seminar in Nineteenth Century US</td>
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<td>Reading Seminar in Modern US History</td>
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<tr>
<td>HIST 281Z</td>
<td>Reading Seminar: Topics in United States</td>
<td></td>
</tr>
<tr>
<td></td>
<td>History</td>
<td></td>
</tr>
</tbody>
</table>

**Electives (9 Units)**

Select 9 units

**Advancement to Candidacy**

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one 200-level course;
- determined with the History Graduate Coordinator whether to attempt the thesis, examination, or project (Public History and Specialized Options only) as the Culminating Requirement;
- determined which department faculty member will supervise the student’s work and act as his/her History advisor;
- filed and received departmental approval of a Petition for Approval of Thesis/Examination/Project (only in the Public History and Specialized Options); and taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

Students must file their Advancement to Candidacy in the semester prior to enrolling in HIST 500, Culminating Experience.

Adancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with his/her History advisor. The completed form is then returned to the Graduate Coordinator and the Office of Graduate Studies for approval.

**Note:** A foreign language is not a degree requirement. However, students who plan further graduate study in History are encouraged to study French, German, or another foreign language since proficiency in two foreign languages is usually required in doctoral programs.
Culminating Requirement (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 295</td>
<td>History Internship</td>
<td>3</td>
</tr>
<tr>
<td>HIST 297</td>
<td>Advanced Internship</td>
<td>3</td>
</tr>
<tr>
<td>HIST 299</td>
<td>Special Problems</td>
<td>1 - 3</td>
</tr>
<tr>
<td>HIST 400</td>
<td>The Teaching of History in College</td>
<td>3</td>
</tr>
<tr>
<td>HIST 500</td>
<td>Culminating Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 30

1. Elective courses in History (graduate seminars or upper division courses) and up to 3 units from related fields, as approved by the Graduate Director. HIST 280 and HIST 281 series courses may be repeated and counted in this area if the course topic is different.

2. Students may not enroll in HIST 500 until all "incomplete" grades received up to that point are completed. Students who receive "incomplete" grades in coursework after enrolling in HIST 500 will not receive final approval on thesis, examination, or project until a passing grade has been assigned to incomplete coursework.

No more than 9 units of supervisory courses (see the following) may be counted toward the degree.

MA in Public History

Total units required for the MA: 36 including 9 units of supervised professional internship

Program Description

The Public History Program offers a two-year course of study leading to the Master of Arts as a degree option within the History Department. The program provides an integrated professional curriculum that includes specialized project and internship experience in several concentrations including: archives and manuscripts, business history, oral history, public history research and analysis, and historic preservation. All students pursue a common course of study, gain professional experience through a series of internships, and complete a master's project or thesis within their area of program specialization.

Program requirements meet the educational guidelines of the Society of American Archivists, the Oral History Association, and the National Council on Public History. Graduates are qualified for listing on the Professional Register of Public Historians maintained by the California Committee for the Promotion of History.

All applicants must meet the requirements for admission as a classified graduate student in History. Applicants are also encouraged (but not required) to submit both verbal and quantitative scores from the aptitude portion of the Graduate Record Examination with their admission application.

Applications are available from the History Department Office. Students who are not enrolled in the program may take public history courses on a space available basis, with instructor permission.

Admission Requirements

Admission as a classified graduate student in the Standard and the Public History programs requires:

- a baccalaureate degree;
- an undergraduate major in History, OR a minimum of 27 semester units in History, or a closely related field, approved by the Graduate Coordinator. Fifteen of the units must be upper division and include one seminar from the HIST 192 series (or equivalent) and one seminar from HIST 197 series (or equivalent); and
- a minimum 3.0 GPA in the last 60 units attempted and a minimum 3.25 GPA in History courses.

Students who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted to the degree program with conditionally classified graduate status. Any deficiencies will be noted on a written response to the admission application. The department Graduate Coordinator will specify courses to be taken by students with fewer than 27 units of history and/or without the required seminars. Work taken to remove such deficiencies may not be counted toward the master's degree.

Admission Procedures

Applicants should file the Sacramento State Office of Graduate Studies for application for admission to the University, and complete the supplemental application for the Department of History. Please check with the Department office for the official deadline.

All applicants, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines please visit the Office of Graduate Studies website.

Applicants must also file the following supplemental application:

- a statement of purpose of at least 250 words. This statement should include reasons for applying to the master's program, career objectives and an explanation of how the program will help achieve them, relevant professional training, experience, internships, or volunteer activities, and any non-academic skills, interests, or notable accomplishments that may be pertinent to the application;
- two letters of recommendation. Letters should ideally come from university instructors, but if these are not available, any other credible source who can address qualifications will be acceptable (i.e., work supervisor, clergy, or community leader);
- academic writing sample (optional but highly encouraged).

Applicants will be informed of the Admission Committee's decision within six weeks of the Department's application deadline.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 36 including 9 units of supervised professional internship

Minimum Cumulative GPA: 3.0

Advancement To Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:
Minor in History

Units required for Minor: 24, all of which must be taken in History; a minimum of 12 upper division units is required

Program Description

History, in the broad sense, is the study of all human experience. It examines the people, institutions, ideas, and events from the past to the present. The study of history contributes to cultural literacy and develops critical thinking and other useful skills while helping students understand the present and plan for the future. Historical study provides a solid, fundamental preparation for careers in business, industry, government, and education. It also serves as excellent preparation for law school, foreign service, international work, urban affairs, historical consulting, and library science.

Minimum Grade Requirement

Grade "C-" or better required for courses applied to the minor.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HIST 202</td>
<td>Interpreting U.S. History</td>
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<tr>
<td>HIST 203</td>
<td>Public History Principles and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HIST 282A</td>
<td>Research Seminar in Public History</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 200</td>
<td>History and Theory</td>
<td>3</td>
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<tr>
<td>HIST 282F</td>
<td>History and Memory</td>
<td>3</td>
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<tr>
<td>Elective Courses (12 Units)</td>
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<tr>
<td>Select four of the following: 1</td>
<td>12</td>
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</tr>
<tr>
<td>HIST 281A</td>
<td>Reading Seminar in Colonial or Early US History</td>
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</tr>
<tr>
<td>HIST 281B</td>
<td>Reading Seminar in Nineteenth Century US History</td>
<td></td>
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<tr>
<td>HIST 281C</td>
<td>Reading Seminar in Modern US History</td>
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</tr>
<tr>
<td>HIST 281Z</td>
<td>Reading Seminar: Topics in United States History</td>
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<tr>
<td>HIST 282B</td>
<td>Archives and Manuscripts</td>
<td></td>
</tr>
<tr>
<td>HIST 282C</td>
<td>Oral History: Theory and Practice</td>
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</tr>
<tr>
<td>HIST 282D</td>
<td>Museum Studies</td>
<td></td>
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<tr>
<td>HIST 282E</td>
<td>Historic Preservation</td>
<td></td>
</tr>
<tr>
<td>HIST 282Z</td>
<td>Special Topics in Public History</td>
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</table>

Internship Requirement (9 Units)

<table>
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<tr>
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<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>HIST 295</td>
<td>History Internship (course taken twice for a total of 6 units)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 297</td>
<td>Advanced Internship</td>
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</table>

Culminating Requirement (3 Units) 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 500</td>
<td>Culminating Experience 3</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 36

1 No more than one seminar from the HIST 281 series can be included as a Public History program elective.

2 Students complete either a master's thesis or master's project under the guidance of the Public History faculty. Students will make an oral presentation and defense of their thesis/project before a committee of at least two faculty members including the director of the MA thesis/project.

3 Students may not enroll in HIST 500 until all "Incomplete" grades received up to that point are completed. Students who receive "Incomplete" grades in coursework after enrolling in this course will not receive final approval on thesis or examination until a passing grade has been assigned to incomplete coursework.

Minor in Latin American Studies

Units required for Minor: 21

Program Description

The minor in Latin American Studies (LAS) provides students with coursework that explores the historical, social, cultural, political, and transnational/transoceanic conditions of Latin American societies as well as the ways in which these factors have shaped historical and contemporary Latino/a/x identities. The curriculum includes courses from a variety of disciplinary perspectives and allows students to specialize in particular topical and/or thematic areas of interest.
Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Upper Division Courses (6 Units)</td>
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<tr>
<td>HIST 138A</td>
<td>Colonial Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 138B</td>
<td>Modern and Contemporary Latin America</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective Courses (15 Units) 1,2</td>
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<tr>
<td></td>
<td>Arts &amp; Literature</td>
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<tr>
<td>ART 111</td>
<td>Latin American and Latino Art History</td>
<td>6</td>
</tr>
<tr>
<td>HIST 137B</td>
<td>Latin American History in Film</td>
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<tr>
<td>MUSC 119C</td>
<td>World Music: Latin America</td>
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<tr>
<td>SPAN 100</td>
<td>Introduction to the Study of Hispanic Literature</td>
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<tr>
<td>SPAN 113</td>
<td>Latin American Literature, Beginnings to Modernism</td>
<td></td>
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<tr>
<td>SPAN 134</td>
<td>Latin American Literature, Modernism to Present</td>
<td></td>
</tr>
<tr>
<td>SPAN 136</td>
<td>The Short Story in Latin America</td>
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<tr>
<td>SPAN 153</td>
<td>Civilization and Culture of Mexico</td>
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<tr>
<td></td>
<td>Society</td>
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<tr>
<td>ANTH 121</td>
<td>Archaeology of Mexico</td>
<td>9</td>
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<tr>
<td>ANTH 122</td>
<td>The Evolution of Early Mesoamerican States</td>
<td></td>
</tr>
<tr>
<td>ANTH 143</td>
<td>Culture and Society in Mexico</td>
<td></td>
</tr>
<tr>
<td>ANTH 145</td>
<td>Peoples and Cultures of Latin America</td>
<td></td>
</tr>
<tr>
<td>ETHN 30</td>
<td>Introduction to Chicano/Latino Studies</td>
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</tr>
<tr>
<td>ETHN 131</td>
<td>La Raza Studies</td>
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<tr>
<td>ETHN 132</td>
<td>La Mujer Chicana</td>
<td></td>
</tr>
<tr>
<td>ETHN 136</td>
<td>US Mexican Border Relations</td>
<td></td>
</tr>
<tr>
<td>ETHN 137</td>
<td>Race and Ethnicity in Latin America and Caribbean</td>
<td></td>
</tr>
<tr>
<td>ETHN 141</td>
<td>Politics of the African Diaspora</td>
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<tr>
<td>POLS 141</td>
<td>Politics of the African Diaspora</td>
<td></td>
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<tr>
<td>POLS 147</td>
<td>Latin American Government and Politics</td>
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<tr>
<td>HIST 135A</td>
<td>History Of Mexico To 1910</td>
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</tr>
<tr>
<td>HIST 135B</td>
<td>Revolutionary and Modern Mexico</td>
<td></td>
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<tr>
<td>HIST 137A</td>
<td>Latin American Revolutions in the Twentieth Century</td>
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<tr>
<td>HIST 178</td>
<td>Mexican-American History</td>
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<tr>
<td>HIST 181</td>
<td>Anarchists and Revolutionaries: Transnational Radicalism in America</td>
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<tr>
<td>HIST 192F</td>
<td>Seminar in Recent Interpretations of Latin American History</td>
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<tr>
<td>SOC 118</td>
<td>Chicano Community</td>
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<tr>
<td>SOC 122</td>
<td>Immigration Studies</td>
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<td>SOC 164</td>
<td>Sociology of Globalization</td>
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<tr>
<td>SPAN 151</td>
<td>Civilization and Culture of Hispanic America</td>
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</tr>
<tr>
<td>SPAN 152</td>
<td>Civilization and Culture of Spain</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 21

1 Students must take at least one course from three different disciplines.
2 No more than four courses from any one discipline count for the LAS minor.

Ph.D. in Public History

Program Description

The joint doctoral program in Public History offered in cooperation with UC Santa Barbara provides training in public history, particularly in the following professional fields: history of public policy; cultural resource management; business and institutional history; and community and local history. Supporting courses are offered in oral history; archives and records administration; museum management; historic preservation; historical editing; and policy and litigation support.

Questions about the program should be directed to Sacramento State Professor Anne Lindsay (anne.lindsay@csus.edu) and UCSB Professor Randy Bergstrom (bergstro@history.ucsb.edu).

Admissions Requirements

Prospective applicants for the joint Ph.D. program should have completed a Master’s degree in history, public history, or a related field (in unusual circumstances, highly qualified candidates can be admitted without the MA).

Applicants should provide the following information to the Graduate Program in Public History at UCSB: the appropriate application forms; transcripts of completed academic work; GRE scores; three letters of recommendation; and an essay explaining the applicant’s reasons for seeking a Ph.D.

Admissions Procedures

The Joint Public History Committee will review applications for admission and select the individuals to be admitted to the joint doctoral program.

Program Requirements

Students admitted to the program must spend at least one academic year in residence on each of the two campuses.

In addition to the required research seminars and professional coursework, students will complete an internship assignment and report.

To complete the doctoral program, students must pass a combination of written and oral examinations in four fields. These fields are typically: a general field (usually U.S. History); a specialized field within the general field; a third field encompassing the dissertation topic; a cognate field outside the department (e.g., art history, anthropology, political science).

In addition, each student will: pass one foreign language examination; complete a dissertation; and serve as a research or teaching assistant.

Subject Matter Program (History)

Units required for Major: 72
Total units required for BA: 120

Program Description

History, in the broad sense, is the study of all human experience. It examines the people, institutions, ideas, and events from the past to the present. The study of history contributes to cultural literacy and develops critical thinking and other useful skills while helping students understand the present and plan for the future. Historical study provides a solid, fundamental preparation for careers in business, industry, government, and education. It also serves as excellent preparation for law school,
foreign service, international work, urban affairs, historical consulting, and library science.

History is an academic discipline offering both breadth and focus. At Sacramento State, the History major includes four lower division survey courses and three upper division seminars. In addition, students choose seven upper division electives from a wide variety available. The flexibility of the major allows students to focus on topical areas such as: women's history, the history of particular geographic areas, cultural history, ethnic group history, economic history, military history, and history from the ancient world to that of the U.S. in the 20th Century. Teaching credential candidates should complete the History/Social Science Pre-credential Program.

**Preparation for Credential Program**
The History BA with Social Science Subject Matter Competency is a California state-approve subject matter program. Students who successfully complete the program satisfy the requirement of the Commission on Teacher Credentialing for demonstrated competence in Social Science. Graduates of the program are exempt from the CSET exams in Social Science.

Early field experience: Students are strongly encouraged to seek opportunities to gain experience in classroom settings or with youth in organized activities.

Sacramento State's Master of Arts in Teaching (Single Subject) requires a minimum of of 45 hours (100 preferred) of experience working with middle- to high-school aged youth during the two year prior to apply to the credential program.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td><strong>Required History Courses (39 Units)</strong> 1</td>
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<tr>
<td><strong>Lower Division Required Courses</strong></td>
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<tr>
<td>HIST 17A</td>
<td>United States History, 1607-1877  2</td>
<td>3</td>
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<tr>
<td>HIST 17B</td>
<td>United States History, 1877-Present  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 50</td>
<td>World History I: to 1500  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 51</td>
<td>World History from 1500 to the Present  2</td>
<td>3</td>
</tr>
<tr>
<td><strong>Upper Division Seminar</strong></td>
<td></td>
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</tr>
<tr>
<td>HIST 100</td>
<td>Introduction to Historical Skills (Recommended for second semester of sophomore year)</td>
<td>3</td>
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<tr>
<td><strong>Upper Division Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 133</td>
<td>Twentieth-Century World History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 183B</td>
<td>California History, 1860-1970</td>
<td>3</td>
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<tr>
<td><strong>U.S. History</strong></td>
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<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>HIST 154</td>
<td>20th Century United States, 1890-1940</td>
<td>3</td>
</tr>
<tr>
<td>HIST 155</td>
<td>20th Century United States, 1941-Present</td>
<td>3</td>
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<tr>
<td>HIST 156</td>
<td>The Sixties: Years of Hope, Days of Rage</td>
<td>3</td>
</tr>
<tr>
<td>HIST 159</td>
<td>History of US Foreign Relations  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 160</td>
<td>The United States in Vietnam, 1940-1975</td>
<td>3</td>
</tr>
<tr>
<td>HIST 161</td>
<td>The American Vision  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 162</td>
<td>Social History of the United States  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 163</td>
<td>The City in US History  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST/POLS 164</td>
<td>History of American Capitalism</td>
<td>3</td>
</tr>
<tr>
<td>HIST/ENVS 165</td>
<td>American Environmental History  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 166</td>
<td>Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>HIST/HR 169</td>
<td>Hollywood and America  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 179</td>
<td>American Immigration History</td>
<td>3</td>
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<tr>
<td>HIST 180</td>
<td>American Legal History</td>
<td>3</td>
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<tr>
<td>HIST 182</td>
<td>American West</td>
<td>3</td>
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<tr>
<td>HIST 188</td>
<td>American Labor History</td>
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**Pre-20th Century U.S. History**
Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>HIST 103</td>
<td>Mediterranean Europe: From the Renaissance to the European Union  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 105</td>
<td>Great Ages and Issues in Modern European History  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 115</td>
<td>The Renaissance and Reformation in Europe</td>
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</tr>
<tr>
<td>HIST 116</td>
<td>Europe, 1648-1815, The Age of Revolution  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 117</td>
<td>Europe, 1815-1914</td>
<td>3</td>
</tr>
<tr>
<td>HIST 118A</td>
<td>World War I: Causes, Conduct, Consequences</td>
<td>3</td>
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<tr>
<td>HIST 118B</td>
<td>World War II: Causes, Conduct, Consequences</td>
<td>3</td>
</tr>
<tr>
<td>HIST 119</td>
<td>Europe Since 1945  2</td>
<td>3</td>
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<tr>
<td>HIST 121</td>
<td>Democracy and Human Rights in the Era of the French Revolution and Napoleon</td>
<td>3</td>
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<tr>
<td>HIST 123</td>
<td>The Crusades</td>
<td>3</td>
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<tr>
<td>HIST 125</td>
<td>Modern Germany, 1806-Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 128C</td>
<td>British History, 1714-Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 129B</td>
<td>Imperial Russia</td>
<td>3</td>
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<tr>
<td>HIST 129C</td>
<td>Twentieth Century Russia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 130</td>
<td>The Fall Of Communism  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 134</td>
<td>The Rise and Fall of European Colonial Empires</td>
<td>3</td>
</tr>
<tr>
<td>HIST 135A</td>
<td>History Of Mexico To 1910  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 135B</td>
<td>Revolutionary and Modern Mexico  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 138A</td>
<td>Colonial Latin America  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 138B</td>
<td>Modern and Contemporary Latin America  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 141</td>
<td>History of Africa Since 1800  2</td>
<td>3</td>
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<tr>
<td>HIST 143A</td>
<td>Middle Eastern History to 1800  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 143B</td>
<td>The Modern Middle East  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 144</td>
<td>Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder</td>
<td>3</td>
</tr>
<tr>
<td>HIST 145</td>
<td>South Asian History &amp; Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 146A</td>
<td>Cultural History of Japan to 1800  2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 146B</td>
<td>Modern Japan, 1800-present  2</td>
<td>3</td>
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<tr>
<td>HIST 148B</td>
<td>China, 1600 to Present  2</td>
<td>3</td>
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<tr>
<td>HIST 149</td>
<td>The Making of Modern Southeast Asia</td>
<td>3</td>
</tr>
</tbody>
</table>
Women/Ethnic History

Select one of the following:

- HIST 172 History of Women in Western Civilization, Prehistory-Middle Ages
- HIST 177 The African-American Experience, 1603-Present
- HIST 178 Mexican-American History
- HIST 185 California Indian History

Required Seminar

- HIST 191 Seminar in Historical Interpretation and Analysis

Interdisciplinary Seminar Course

- HIST 198 Summative Assessment for Teachers

Additional Requirements Outside History (33 Units)

Early Field Experience

- EDUC 170 Introduction to Bilingual Education: Policies, Principles, Programs, and Practices

Economics

- ECON 1A Introduction to Macroeconomic Analysis
- ECON 1B Introduction to Microeconomic Analysis
- ECON 113 Economic History of the United States

Ethical Perspectives

Select one of the following:

- PHIL 2 Ethics
- PHIL 101 Ethics and Social Issues

Geography

- GEOG 100 Themes In World Geography
- GEOG 121 United States and Canada

Political Science

- POLS 1 Essentials Of Government
- or POLS 150 American Governments
- POLS 35 World Politics
- POLS 180 California State and Local Government

Pluralism in American Society

Select one of the following:

- ANTH 101 Cultural Diversity
- ETHN 100 Ethnic America
- POLS 165 Politics of the Underrepresented
- SOC 120 Ethnic and Race Relations

Total Units 72

1 Many required and electives courses also satisfy specific General Education (GE) and/or Graduation Requirements.
2 With approval by a major advisor, students may opt to take additional History of Marginalized Groups courses to meet the World History or US History elective requirements.
3 All courses in the Pluralism in American Society and Ethical Perspective elective areas meet GE and/or Graduation Requirements; all courses in the American Pluralism elective area courses meet the Race & Ethnicity Graduation Requirement
4 EDUC 170 is a prerequisite course for the Sacramento State's Single Subject Teaching Credential program. Students planning to earn a credential from Sac State are strongly encouraged to also take the other pre-req courses EDUC 100A/EDUC 100B and PUBH 136. EDUC 170 and EDUC 100 A/B required independent field work.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
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<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
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<tr>
<td>A2 - Written Communication</td>
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<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
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<tr>
<td>Area B: Physical Universe and Its Life Forms (13 Units)</td>
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<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
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<tr>
<td>B2 - Life Forms</td>
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<td></td>
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<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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<td></td>
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<tr>
<td>B4 - Math Concepts</td>
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<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
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<tr>
<td>Area C: Arts and Humanities (3-6 Units)</td>
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<tr>
<td>C1 - Arts</td>
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<tr>
<td>C2 - Humanities</td>
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<tr>
<td>C1/C2 - Area C Course</td>
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<td>Area D: The Individual and Society (0-3 Units)</td>
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<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<td>Area E: Understanding Personal Development (3 Units)</td>
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<td>Area E Course</td>
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</tbody>
</table>

Total Units 28-34

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).
2 Required in Major; also satisfies GE.
Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (0-3 Units)</td>
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<tr>
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<td>American Institutions: U.S. History ²</td>
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<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government ²</td>
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<td></td>
<td>Writing Intensive (WI) ³</td>
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<td>Graduation Requirements (required by Sacramento State) (9 Units)</td>
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<td>English Composition II</td>
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<td></td>
<td>Race and Ethnicity in American Society (RE) ²</td>
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<tr>
<td></td>
<td>Foreign Language Proficiency Requirement ⁴</td>
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</tbody>
</table>

Program Description

The Department of Humanities and Religious Studies offers an integrated approach to the study of world cultures from ancient times to the present. In our courses, students undertake interdisciplinary study of core ideas, ideals, and values. The Humanities — known by Renaissance thinkers as *studia humanitatis* (“studies of humanity”) — explore such subjects as literature, history, philosophy, religion, the visual arts, music, drama, and film. Religious Studies focuses on beliefs and practices of the world’s religions in their historical and cultural contexts. Employing the methods and insights of disciplines such as history, anthropology, sociology, psychology, and philosophy, Religious Studies approaches its subject matter with empathy while avoiding assumptions or judgments about religious truth claims.

The Department offers the following degree programs:

- The BA in Humanities provides a strong interdisciplinary foundation in world cultures while also allowing students the opportunity to focus their studies on a specific era — such as the ancient, medieval, or modern era — or on culture in a particular region.
- The BA in Humanities with a Concentration in Religious Studies emphasizes religion as an aspect of culture and investigates major religious traditions, including Hinduism, Sikhism, Jainism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam.
- Minor programs in both Humanities and Religious Studies.
- The MA in Humanities provides graduate-level engagement with humanistic approaches to world cultures.
- Students in all five programs acquire concrete skills in critical thinking, analysis, research, writing, and organization that lead to attractive careers throughout the job market. Many of our students prepare for careers in teaching at the elementary level (as part of a Liberal Studies major program) or secondary level (as part of a single subject credential program in English/Humanities). Others pursue postgraduate study in the Humanities, History, Theology, and related fields in preparation for careers in teaching at the community college and university levels or in library, museum, or curatorial work. Humanities majors are also well-prepared for careers in government and fields such as law and counseling, which require interaction with people from diverse cultural backgrounds.

Degree Programs

- BA in Humanities (p. 259)
- BA in Humanities (Religious Studies) (p. 260)
- Minor in Humanities (p. 263)
- Minor in Religious Studies (p. 264)
- MA in Humanities (p. 262)

Special Features

- Faculty advisors are available to help majors and minors design individual patterns of study that reflect students’ particular interests and prepare them for work in their chosen fields.
The Department fosters a sense of community among faculty and students in order to create a welcoming and congenial environment that encourages mutual respect, active learning, and the lively exchange of ideas.

Career Possibilities
Teaching · Academic Research · Publishing · Journalism · Government · Public Relations · Law · Library Science · Creative Writing · Literary Research · Theology · Ministry · Counseling

Contact Information
Alyson R. Buckman, Department Chair
Harvey Stark, Graduate Coordinator
Shelly Bingel, Administrative Support Coordinator
Mendocino Hall 2011
(916) 278-6444
Department of Humanities & Religious Studies Website (http://www.csus.edu/hum/)

Faculty
BUCKMAN, ALYSON R.

DOYNO, MARY

DUBOIS, JOEL

JAOUDI, MARIA

QIN, AMELIA YING

SHINBROT, VICTORIA

STARK, HARVEY

THOMA, JUDY

HRS 4.   Exploring World Religions.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Comparative inquiry into the nature of global religions, including Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam. Experiential, social, and material aspects of religions will be considered as well as beliefs and practices.

HRS 10.   Arts and Ideas of the West: Ancient to Medieval.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the literature, art, architecture, philosophy and history of the ancient and medieval West, with emphasis on classical Greece and Rome and the European Middle Ages.

HRS 11.   Arts and Ideas of the West: Renaissance to Modern.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the literature, art, architecture, music, philosophy, and history of the West from the Renaissance to the present.

HRS 21.   First Year Seminar: Becoming an Educated Person.  3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills.

HRS 60.   Popular Culture: Thinking Critically About the World Around Us.  3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Focus on thinking critically and building arguments about popular culture in its various forms, including television, film, music, art, and literature. Enhances understanding of popular culture, including definitions of key analytical terms, sociocultural history, generic structures, and aesthetic appreciation.

HRS 70.   Arts and Ideas of Asia: Ancient to Medieval.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Introduction to the cultural history of ancient and early medieval Asia incorporating examples of art, literature, philosophy, and religion, providing a survey of China, India, and several other distinct cultures of the areas surrounding them—especially Japan.

HRS 71.   Arts and Ideas of Asia: Medieval to Modern.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Introduction to the cultural history of late medieval and modern Asia incorporating examples of art, literature, philosophy, and religion, providing a survey of China, India, and several other distinct cultures of the areas surrounding them—especially Japan.

HRS 80.   Introduction to Film.  3 Units
Term Typically Offered: Fall, Spring

Introduction to the aesthetics of cinema, including understanding of how lighting, editing, angles, shot length, and framing create meaning in film. Discussion of aesthetic movements such as German Expressionism, Nouvelle Vague, and auteurism.

HRS 105.   Approaches to the Humanities.  3 Units
Prerequisite(s): HRS 10 and HRS 11 or instructor permission.
Term Typically Offered: Fall only

Advanced study of interdisciplinary methods applied to the arts, including literature, music and other modes of humanistic expression.

HRS 108.   Approaches to Religious Studies.  3 Units
Term Typically Offered: Fall only

Exploration of the history and methodology of Religious Studies, including the analysis of several significant theories of the origin and function of religion. Methods and theories drawn from the disciplines of psychology, sociology, history, anthropology, philosophy and feminist studies.
HRS 113. The Culture of Classical Greece. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Examination of the Golden Age of Athens and the birth of Western humanism; studies in the classical ideals, tragedy, comedy, poetry, history, philosophy, art and architecture.

HRS 114. The Culture of Classical Rome. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Study of Roman culture and its influence. Emphasis on art, architecture, literature, history, philosophy and religion of Rome from the early Republic to the end of the Western Empire.

HRS 115. Material Culture of Ancient Rome. 3 Units
Term Typically Offered: Fall, Spring

A focused study of ancient Roman culture as understood through investigation of materials artifacts, especially as found in archaeological sites and museum exhibits. The majority of course time will be spent in Rome and in Pompeii and other locations near Bay of Naples. Visits to archaeological sites and museums will be supplemented by readings of relevant texts and by ongoing discussion.

HRS 117. Paganism in the Roman World. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of ancient Roman paganism, the wide variety of religious beliefs, practices, and institutions found throughout the Roman world. Topics include Greek influences, traditional religion, state and ruler cults, healing cults, oracles, astrology, mystery religions, priests and priestesses, prayer, sacrifice, and religious philosophies.

HRS 119. Classical Mythology. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Study of Greek and Roman myths and hero tales and their place in the arts and literature of Western civilization. Also provides an introduction to the general nature and function of myth.

HRS 120. Reason and Revelation: The Origins of Western Culture. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of the conflicting cultures that have shaped the social, religious and ethical perspectives of Western Culture. Readings in the Bible, Plato, Greek drama, the New Testament, and church fathers.

HRS 121. Introduction to the Hebrew Bible/Old Testament. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Survey of the historical narratives and other literature of the Bible, analysis of archeological evidence and introduction to the basic problems of textual criticism. Topics of study will include the origins and development of early Judaism and its interaction with surrounding cultures.

HRS 122. Introduction to the New Testament. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Study of the New Testament literature in its historical and cultural setting. Topics covered include the literary relationships of the four Gospels, the historical Jesus, the evolution of early Christianity, and the diverse theologies represented in the letters of Paul and other canonical and non-canonical writings.

HRS 126. History of Christianity to the Reformation. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Christianity from Jesus to Martin Luther. Emphasis on the evolution of Christian thought and institutions and the relationship of the Church to popular culture and secular powers. Cross Listed: HIST 126; only one may be counted for credit.

HRS 127. History of Christianity Since the Reformation. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

European Christianity from the Reformation to the present. Emphasis on the evolution of Christian thought, the co-existence of the Catholic and Protestant traditions and the relationship of religious and secular values in European society. Cross Listed: HIST 127; only one may be counted for credit.

HRS 131. Medieval Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Decline of Rome to the Renaissance. Emphasis on the cultural development of the West from the Germanic invasions until the advent of Humanism with attention to theology, art, architecture and literature to illustrate the dynamics of these diverse years.

HRS 132. Renaissance. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only

Investigates the nature and implications of Renaissance Humanism in Italy (14th and 15th centuries) as well as its impact in Northern Europe in the 16th century. Includes the literary works of such writers as Petrarch, Pico, Machiavelli, Erasmus and Cervantes, along with the art of Giotto, Botticelli, Michelangelo, Brunelleschi, Cellini, Dufay, da Vinci, and the music of Palestrina.

HRS 134. Baroque and the Enlightenment. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Multi-faceted survey of the culture of Europe and North America in the Age of the Baroque and Enlightenment (1600-1792). Emphasizes literature, music, painting, architecture and ideas in France, Britain, Germany and Italy.
HRS 135. Romance and Revolution. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring  
Interdisciplinary survey of the cultures of Europe and North America in the 19th century. Building on the Romantic aesthetic developed late in the 18th century. Considers the literature, music, painting and ideas of northern Europe and America until the 1900s.

HRS 136. Birth Of The Modern. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring  
Investigation of those crises in art and society underlying the development of modernism and post-modernism.

HRS 137. Global Crossings: Art and Culture 1945 to Present. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring  
Exploration of concepts and expressions of postmodernism and its emphasis on irony, citation, and the interconnectedness of politics, aesthetics, and philosophy across the disciplines (art, literature, architecture, film) and the continents (Europe, Asia, Africa, America and Latin America).

HRS 141. Introduction To Judaism. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall only  
Survey and analysis of the fundamental tenets of Judaism set within the context of the historical and intellectual development of the Jewish People.

HRS 142. Introduction to Christianity. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Spring only  
Study of the beliefs, practices, institutions and history of the Christian religion. Emphasis on the Orthodox, Roman Catholic, and Protestant traditions and the relationship of Christianity to global cultures.

HRS 144. Introduction To Islam. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring, Summer  
Survey of the Islamic way of life: its beliefs, traditions and practices from Quranic origins and the Sunna of the Prophet Muhammad. The historical development of Islamic law, religious sects, mysticism, and intellectual thought of the global Muslim community from medieval to contemporary times.

HRS 145. Introduction to Islamic Cultures. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Spring only  
Survey of the expression of Islamic values in religious practice, philosophy, theology, art, architecture, music, and literature in different geographic locations and historical periods.

HRS 146. Islam in America. 3 Units  
General Education Area/Graduation Requirement: Race & Ethnicity  
Graduation Requirement (RE), Humanities (Area C2)  
Term Typically Offered: Fall, Spring  
An inquiry into the history and development of Islam in United States. Special emphasis will be placed on issues related to race, ethnicity, gender, ritual practice, and the politics of being Muslim in America.

HRS 147. History of Buddhism. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring  
Examines in cultural and historical perspective, drawing on both ancient and contemporary sources, the key practices and ideas of Buddhist traditions in India, China, Southeast Asia, Tibet, Japan, and other surrounding regions; as well as the more recent spread of these practices and ideas to Europe, North America, and Australia. Cross listed: HIST 147.

HRS 148. African Arts and Cultures. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring  
Survey of African cultural and artistic forms which explores the intersection of culture and the humanities in different African contexts—past and present. Emphasizes the cultural diversity of the African continent, and surveys how different cultural, ethical, aesthetic, and religious values are expressed in literature, visual art, music, architecture, and ritual. Focuses primarily on sub-Saharan Africa.

HRS 151. World Mythology. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring  
Introduction to the nature and function of myth. The specific literature studied will be exclusive of classical mythology and because of the breadth of subject matter will vary in content. The mythology of at least four cultures will be covered each term.

HRS 152. Great Mystics of the World. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring  
Examination of the meaning of mysticism as a “direct experience of ultimate reality” in the world’s religions. The history, teachings, belief systems and scriptures of Hinduism, Buddhism, Daoism, Confucianism, Judaism, Christianity and Islam will be studied to illuminate the lives and works of each religion’s great mystical thinkers.

HRS 154. Food, Farming, and the Sacred. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring  
Examination of primary sources dealing with the sacred dimensions of food and farming in pre-modern and modern world cultures. Attention paid to sustainable, small-scale farming, and spiritual perspectives that promote and reinforce sustainable food practices. Interested students may receive one additional unit of credit for 20 hours of work with a local organization involved in farming and/or local food distribution through the Community Engagement Center and reflection assignments relating this work to course materials.

HRS 155. Spirit and Nature. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring  
Comparative inquiry into the critical connection between religion and nature. Traditional views of selfhood, the sacred, morality and specific ecological issues, such as energy consumption will be examined through representative sources in world religions.
HRS 161. Multicultural America. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring
Topically structured, interdisciplinary introduction to the cultural experiences of historically under-represented groups. Historical and contemporary events, as well as values and beliefs in American culture, are examined through various artistic expressions, such as music, painting and literature.

HRS 162. American Space and Identity. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Examination of the ways in which physical spaces within America contribute to the formation of American identities and vice versa. Interdisciplinary and topically organized, analyzes both exterior and interior spaces: city, suburb, regions, body, mind, and the borderlands, to name a few. Also studies the interaction of race, class, gender, and sexuality with space and identity.

HRS 168. Images Of America. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring
Interdisciplinary survey of major events, trends and figures in American history viewed through the lenses of American literature, visual arts, music and architecture. The arts in America are studied in relation to major ideas, significant personalities and important historical events from the period of the early republic to the present. Cross Listed: HIST 168; only one may be counted for credit.

HRS 169. Hollywood and America. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Chronological survey of American films and their cultural significance from the 1890s to the present. Focus on films produced in Hollywood, the contexts in which they were created and the impact of Hollywood as a geographical and mythical place in the development of American culture. Cross Listed: HIST 169; only one may be counted for credit.

HRS 170. The Religious Landscape of the Sacramento Valley. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Introduction to the field study of religious communities. Addresses the nature of religious pluralism in the U.S. today. The practice and belief systems of at least five different religious communities will be studied each semester. Students are required to do an in-depth term project based on research in one or more religious communities Cross Listed: ANTH 170; only one may be counted for credit.
HRS 178. Religions of India. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

An introduction to the bewildering diversity of Indian religions, relating religious practices & ideas to broader cultural developments, including visual arts and literature. Focuses on the way Hindu, Buddhist, Jain and Sikh traditions address the concept of karma in distinctive ways, paying special attention to the way words and intentions are said to influence the consequences of a person's deeds.

HRS 178A. Religions of India I: The Formative Period. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only – odd years

Introduction to religious life on the Indian subcontinent during its ancient period, relating religious practices and ideas to broader cultural developments, including visual arts and literature.

HRS 178B. India's Religions: Jains & Sikhs. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only – odd years

Introduction to India's stunningly diverse religious landscape, exploring perspectives and practices in the development of the lesser known but widely influential Jain and Sikh traditions that lend special insight into India's modern cultural practice and worldview. Focuses on Jain and Sikh notions of heroism and non-violence, paying special attention to the ideals of iconoclasm, religious pluralism and devotion.

HRS 179A. The Hindu Year: Fall. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A survey of Hindu religious teachings, stories, and history, as expressed through the holy days and festivals celebrated each fall by Hindus throughout India and abroad, during which ideas, stories, and values are transmitted from one generation to the next. Examines the little understood and rarely discussed historical development behind each celebration, based on both ancient and contemporary sources, thereby revealing why Hindu ideas and history have remained compelling to Hindus for thousands of years.

HRS 179B. The Hindu Year: Spring. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A Survey of Hindu religious teachings, stories, and history, as expressed through the holy days and festivals celebrated each spring and summer by Hindus throughout India and abroad, during which ideas, stories, and values are transmitted from one generation to the next. Examines the little understood and rarely discussed historical development behind each celebration, based on both ancient and contemporary sources, thereby revealing why Hindu ideas and history have remained compelling to Hindus for thousands of years.

HRS 180. The Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Introduction to the aesthetics of cinema with special attention to the evolution of critical theories of cinema within the framework of twentieth century arts and ideas.

HRS 181. Contemporary Issues in Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examination of contemporary film and film criticism from an interdisciplinary perspective, stressing the links between film, literature, the visual arts and society.

HRS 183. World Religions and Cultures in Cinema. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Summer only

Examination of the religious and spiritual dimensions of selected films from around the world. The cinematic arts are examined in relationship to religious and spiritual concerns, concepts, and values.

HRS 185. Women in Film and American Culture. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Study of major social issues confronting American women, examined through their images in film and other visual and literary arts.

HRS 188. Fantasy and Romance. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Exploration of the aesthetic of fantasy. Approaches may include emphasis on the historical development of the quest-romance or the use of the fantastic as social commentary. Particular genres, such as science fiction, may be explored.

HRS 190. Seminar in HRS: The Body. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS major or minors only.
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies majors. Examines cultural constructions of the body through analysis of art and literature and through the insights of media studies, cultural studies, sociological, psychology, and anthropology. Cross listed: HRS 290B

HRS 190C. Seminar in HRS: Many Realities of Consciousness. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS major or minors only
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies majors. Examines philosophies and theories of perception as applied to cultures, religious traditions, nature, film and literature. Investigates consciousness through examination of the subjectivity of human perception. Cross listed: HRS 290C

HRS 190D. Seminar in HRS: Death and Afterlife. 3 Units
Prerequisite(s): Must be HRS major or minor; Completion of 9 units of HRS lower division courses; Completion of the GWAR.
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies majors. Examines myths, theories, and perceptions of death and afterlife in cross-cultural and historical perspective through analysis of literature, the visual arts, and music. Cross listed: HRS 290D
HRS 190H. Seminar in HRS: The Hero. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS major or minors only
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies. Examines the hero in cross-cultural and historical perspective through analysis of visual artifacts, literature, history, philosophy, music and film.
Cross listed: HRS 290H

HRS 190M. Saints, Relics, and Miracles in Late Antique and Medieval Europe. 3 Units
Prerequisite(s): Student must complete 9 units of lower division core courses and be eligible for WI classes based on WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring

Seminar in Humanities and Religious Studies majors. Examines the role of the body in the creation of saints' cults in medieval Europe through analysis of literature and art. Considers how the idea of martyrdom set the terms for an ideal Christian life and explores the role relics, pilgrimage and miracle stories played in medieval society.
Cross listed: HRS 290M

HRS 190P. Seminar in HRS: Popular Culture in America. 3 Units
Prerequisite(s): For HRS majors and minors; completion of 9 units of HRS lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite.
Term Typically Offered: Fall, Spring

Seminar for undergraduate students studying in the Department of Humanities and Religious Studies. Examines the issues, theories, and methods associated with popular and material culture studies using an interdisciplinary perspective.

HRS 195. Seminar in Humanities. 3 Units
Prerequisite(s): Completion of 12 units of HRS lower division core courses, HRS 105, senior status; or instructor permission.
Term Typically Offered: Spring only

Senior seminar for Humanities and Religious Studies majors with Humanities Concentration; focuses on the perspectives and methods of the academic study of the humanities. Topics chosen by the instructor.
Note: May be repeated once for credit.

HRS 196. Experimental Offerings in Humanities and Religious Studies. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Special experimental course on specific themes, figures, or topic areas.
Note: May be taken twice for credit if topic differs.

HRS 196E. Seminar in HRS: Envisioning the Divine. 3 Units
Prerequisite(s): Must be HRS major or minor; completion of 9 units of HRS lower division courses; Completion of the GWAR.
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies majors and minors. Cross-cultural and trans-historical analysis of depictions of the divine in the visual, musical, and literary arts. Employs a modified seminar format, emphasizing analysis of primary and secondary material mainly by way of discussion.

HRS 196S. Storytelling & Myth in World Cultures. 3 Units
Prerequisite(s): Must be HRS major or minor; completion of 9 units of HRS lower division courses; eligibility for WI classes based on WPJ placement score or passage of appropriate prerequisite; or instructor permission. Paired with 296S.
Term Typically Offered: Spring only – odd years

Seminar for Humanities and Religious Studies majors and minors. Cross-cultural and trans-historical analysis of the way storytelling, along with the rituals associated with it, supports the development and spread of myth. Emphasis on analysis of primary and secondary material mainly by way of discussion.

HRS 198. Seminar in Religious Studies. 3 Units
Prerequisite(s): Completion of 9 units of HRS lower division core courses, HRS 108, senior status; or instructor permission.
Term Typically Offered: Spring only

Senior seminar for Humanities and Religious Studies majors with Religious Studies Concentration; focuses on the perspectives and methods of the academic study of religion. Topics chosen by the instructor.
Note: May be repeated once for credit.

HRS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Tutorial-reading course involving independent research. Topic and research method to be decided upon jointly by student and instructor.
Note: May be repeated for credit.

HRS 200A. Culture and Expression: Prehistory to the Middle Ages. 3 Units
Prerequisite(s): Must be a HRS major or minor
Term Typically Offered: Fall, Spring

Interdisciplinary seminar on cultural movements, figures, and art forms of eras from prehistory to the European Middle Ages. Focus on the West with some global comparison. Emphasis on theoretical perspectives, methods, and research techniques germane to the humanities.

HRS 200B. Culture and Expression: Renaissance to the Present. 3 Units
Prerequisite(s): Must be a HRS major or minor
Term Typically Offered: Fall, Spring

Interdisciplinary seminar on cultural movements, figures and art forms of eras from the Renaissance to the present. Focus on the West with some global comparison. Emphasis on theoretical perspectives, methods and research techniques germane to the liberal arts.
HRS 202. Western Aesthetics: Traditions and Revision. 3 Units
Prerequisite(s): Graduate standing.
Term Typically Offered: Fall, Spring

Introduction to critical methodologies in the Humanities and to techniques of formal analysis as applied to specific eras and artworks in Western cultural history.

HRS 205. Space and Time. 3 Units
Prerequisite(s): 6 units in philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to significant philosophical issues involving space and time. An investigation into the current state of these issues.
Note: No background or work in mathematics or physics is required. Cross-listed: PHIL 192D; only one may be counted for credit.

HRS 209. Versions of the Self in Western Literature and the Arts. 3 Units
Term Typically Offered: Fall, Spring

Traces the stages through which the concept of the "self" emerges in Western literature, philosophy and the arts, from Antiquity to the 20th Century. Focus is on the transformation of moral identity as the West moves from a divinely ordered cosmos to a relativized universe.

HRS 210. Gender and Religion in Cross-Cultural Perspective. 3 Units
Term Typically Offered: Fall, Spring

Exploration of the relationships and roles of women and men in the context of religious life. May focus extensively on one or more particular religious traditions cross-culturally, or draw on a wider spectrum of examples. Special attention paid to the complementary nature of men's and women's roles in many religious traditions; and also the way that male perspectives have dominated many areas of formal religious discourse, noting the dissenting voices of women often hidden in more informal types of expression.
Cross Listed: LIBA 210; only one may be counted for credit.

HRS 213. Ancient Greek Culture. 3 Units
Term Typically Offered: Fall, Spring

A graduate-level survey of ancient Greek culture. Emphasis on social and private life, religion, historiography, literature, philosophy, drama, art, and architecture.

HRS 214. Ancient Roman Culture. 3 Units
Term Typically Offered: Fall, Spring

A graduate-level survey of Roman culture. Emphasis on social and private life, religion, historiography, literature, philosophy, drama, art, and architecture.

HRS 216. Historical Reflections on the American Dream. 3 Units
Term Typically Offered: Fall, Spring

Multicultural exploration of how our nation's history has been constructed, experienced, told and valued from varying ethno-cultural points of view, including each student's personal history.

HRS 217. Ordinary America. 3 Units
Term Typically Offered: Fall, Spring

Inquiry into the issues, theories, and methods associated with popular and material culture studies in order to provide students with insights into the past and present nature of American experience. Intended to be an exploration of the ways in which popular and material culture both reflect and contribute to the search for meaning in everyday life.

HRS 220. Seminar in Religious Studies. 3 Units
Term Typically Offered: Fall, Spring

Designed to offer a variety of topics in the study of religion. Seminar presents a rotating series of subjects ranging from ancient religious literature to contemporary religious problems.

HRS 222. Evolving Concepts of God: Portrait of Deity in Monotheistic Religions. 3 Units
Term Typically Offered: Fall, Spring

Seminar traces the historical origin and cultural evolution of the God concept in monotheistic religions. Topics include the archaeological record of humanity's earliest religious artifacts, evidence for the prehistoric worship of the "Great Goddess" figure, an examination of the polytheistic religions of the ancient Near East and their influence on the development of monotheism. Examines the evolving portrait of the Deity in the Hebrew Bible (Old Testament), the New Testament, and the Koran.

HRS 224. Religions of the Roman Empire. 3 Units
Term Typically Offered: Fall, Spring

Survey of the major religious beliefs and practices in the Greco-Roman world from 100B.C.E. – 400C.E. Topics include traditional Greek and Roman religions, healing cults, philosophical religion and Gnosticism.

HRS 226. Wisdom and Apocalyptic Literature. 3 Units
Prerequisite(s): LIBA 200A or graduate status in History or instructor permission.
Term Typically Offered: Fall, Spring

Examines two of the more creative literary genres that make up the canonical and deuterocanonical literature of the Jewish and Christian bibles. Both the historical and theological underpinnings of wisdom and apocalyptic writing will be explored in-depth, with some consideration given to literary analogues in Egyptian, Mesopotamian and Greek culture. Significant research into wisdom and apocalyptic writings outside of the testamental framework required.
Cross Listed: LIBA 226; only one may be counted for credit.

HRS 228. Early Christian Literature. 3 Units
Term Typically Offered: Fall, Spring

Survey of the major genres of Christian literature in the first three centuries CE and their relationship to the development of Christian thought and institutions. Topics include the New Testament; Jewish-Christian literature; Gnostic Christian literature; apocryphal gospels, acts, epistles, and apocalypses; polemical literature; lives of saints; and canons and creeds produced by early church councils.
HRS 234. The Gothic Spirit. 3 Units
Term Typically Offered: Fall, Spring
Arts and ideas of the twelfth and thirteenth centuries in Western Europe, structured according to the principle of the "reconciliation of opposites." The Gothic period sees such opposites as faith and reason, vertical and horizontal (in architecture), counterpoint brought into harmony (in music). The period culminates in Dante's masterpiece, the Divine Comedy, which exhibits the reconciliation of opposites in such sets as female/male, faith/reason, human/divine, beauty/horror, and chaos/harmony.

HRS 235. Transcendence & Transgression in the Romantic Period. 3 Units
Term Typically Offered: Fall, Spring
Interdisciplinary study of Romanticism and other literary, philosophical, and artistic movements of the 18th and 19th centuries. Topics will vary from term to term.

HRS 236. Modernism: Contingent Realities of Self and World. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring
Interdisciplinary studies in the arts of the modern era.

HRS 237. Global Citizenship and Culture. 3 Units
Term Typically Offered: Fall, Spring
This seminar is an exploration of how "the global" is conceptualized in an age with competing notions of the individual and the community. Special emphasis will be placed on race, class, ethnicity & gender to elucidate the many paths that thought, language, and identity take when traversing borders.

HRS 290B. Seminar in HRS: The Body. 3 Units
Prerequisite(s): Must be an HRS major or minor; Completion of 9 units of HRS lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring
Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines philosophical and theoretical ideas related to body and identity in cross-cultural and historical perspective through analysis of literature, the visual arts, and music.

HRS 290D. Seminar in HRS: Death & Afterlife. 3 Units
Prerequisite(s): Must be HRS major or minor; Completion of 9 units of HRS lower division courses; Completion of the WPJ.
Term Typically Offered: Fall, Spring
Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines myths, theories, and perceptions of death and afterlife in cross-cultural and historical perspective through analysis of literature, the visual arts, and music.

HRS 290H. Seminar in HRS: The Hero. 3 Units
Prerequisite(s): Completion of 9 units of HRS lower division core courses and eligibility for WI classes based on the WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring
Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines the hero in cross-cultural and historical perspective through analysis of visual artifacts, literature, history, philosophy, music and film.

HRS 290M. Saints, Relics, and Miracles in Late Antique and Medieval Europe. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS majors or minors only.
Term Typically Offered: Fall, Spring
Seminar for graduate students in Department of Humanities and Religious Studies. Examines the role of the body in cross-cultural and historical perspective through analysis of visual artifacts, literature, history, philosophy, music and film.

HRS 296. Experimental Offerings in Humanities & Religious Studies. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Special graduate-level experimental course on specific themes, figures or topic areas. Scheduled as needed.
Note: May be taken twice for credit if topic differs.

HRS 296E. Seminar in HRS: Envisioning the Divine. 3 Units
Term Typically Offered: Fall, Spring
Seminar for graduate students studying in the Department of Humanities and Religious Studies. Cross-cultural and trans-historical analysis of depictions of the divine in the visual, musical, and literary arts. Employs a modified seminar format, emphasizing analysis of primary and secondary material mainly by way of discussion.

HRS 296S. Seminar in HRS: Storytelling & Myth in World Cultures. 3 Units
Term Typically Offered: Spring only
Seminar for graduate students in the Department of Humanities and Religious Studies. Cross-cultural and trans-historical analysis of the way storytelling, along with the rituals associated with it, supports the development and spread of myth. Emphasis on analysis of primary and secondary material mainly by way of discussion. Paired with 196S.
BA in Humanities

Units required for Major: 39
Total units required for BA: 120

Program Description

The Department of Humanities and Religious Studies offers an integrated approach to the study of world cultures from ancient times to the present. In our courses, students undertake interdisciplinary study of core ideas, ideals, and values. The Humanities—known by Renaissance thinkers as *studia humanitatis* ("studies of humanity")—explore such subjects as literature, history, philosophy, religion, the visual arts, music, drama, and film. Religious Studies focuses on beliefs and practices of the world’s religions in their historical and cultural contexts. Employing the methods and insights of disciplines such as history, anthropology, sociology, psychology, and philosophy, Religious Studies approaches its subject matter with empathy while avoiding assumptions or judgments about religious truth claims.

The BA in Humanities provides a strong interdisciplinary foundation in world cultures while also allowing students the opportunity to focus their studies on a specific era—such as the ancient, medieval, or modern era—or on culture in a particular region.

Students in all five available programs acquire concrete skills in critical thinking, analysis, research, writing, and organization that lead to attractive careers throughout the job market. Many of our students prepare for careers in teaching at the elementary level (as part of a Liberal Studies major program) or secondary level (as part of a single subject credential program in English/Humanities). Others pursue postgraduate study in the Humanities, History, Theology, and related fields in preparation for careers in teaching at the community college and university levels or in library, museum, or curatorial work. Humanities majors are also well-prepared for careers in government and fields such as law and counseling, which require interaction with people from diverse cultural backgrounds.

Program Requirements

### Required Lower Division Courses (12 Units)

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>HRS 10</td>
<td>Arts and Ideas of the West: Ancient to Medieval</td>
<td>3</td>
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<tr>
<td>HRS 11</td>
<td>Arts and Ideas of the West: Renaissance to Modern</td>
<td>3</td>
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<tr>
<td>HRS 70</td>
<td>Arts and Ideas of Asia: Ancient to Medieval</td>
<td>3</td>
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<tr>
<td>HRS 71</td>
<td>Arts and Ideas of Asia: Medieval to Modern</td>
<td>3</td>
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### Required Upper Division Courses (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HRS 105</td>
<td>Approaches to the Humanities</td>
<td>3</td>
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<tr>
<td>HRS 114</td>
<td>One course in the HRS 190 Seminar in Humanities and Religious Studies series</td>
<td>3</td>
</tr>
<tr>
<td>HRS 195</td>
<td>Seminar in Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

### Required Areas of Study (9 Units)

Select at least one from each of the categories A, B, and C:

**A. Ancient - Renaissance**

- HRS 113 The Culture of Classical Greece
- HRS 114 The Culture of Classical Rome
- HRS 131 Medieval Culture
- HRS 132 Renaissance

**B. Enlightenment - Postmodern**

- HRS 134 Baroque and the Enlightenment
- HRS 135 Romanticism and Revolution
- HRS 136 Birth Of The Modern
- HRS 137 Global Crossings: Art and Culture 1945 to Present

**C. Global/Non-Western**

- HRS/HIST 168 Images Of America

### Supporting Courses (9 Units)

Select up to three of the following with approval of HRS faculty advisor:

- HRS 108 Approaches to Religious Studies
- HRS 119 Classical Mythology
- HRS 151 World Mythology
- HRS 161 Multicultural America
- HRS 162 American Space and Identity
- HRS/HIST 169 Hollywood and America
- HRS 180 The Film
- HRS 181 Contemporary Issues in Film
- HRS 185 Women in Film and American Culture
- HRS 188 Fantasy and Romance
- HRS 196 Experimental Offerings in Humanities and Religious Studies
- HRS 199 Special Problems

### Total Units

39

1 Course also satisfies General Education (GE)/Graduation Requirement.

**Note:** With approval of HRS faculty advisor, a student may select up to **two** courses from the following departments: Art, English, Foreign Languages, History, Philosophy, or Theatre and Dance.

### General Education Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td></td>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
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<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
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</tbody>
</table>
BA in Humanities (Religious Studies)

Units required for Major: 39
Total units required for BA: 120

Program Description

The Department of Humanities and Religious Studies offers an integrated approach to the study of world cultures from ancient times to the present. In our courses, students undertake interdisciplinary study of core ideas, ideals, and values. The Humanities — known by Renaissance thinkers as studia humanitatis ("studies of humanity") — explore such subjects as literature, history, philosophy, religion, the visual arts, music, drama, and film. Religious Studies focuses on beliefs and practices of the world's religions in their historical and cultural contexts. Employing the methods and insights of disciplines such as history, anthropology, sociology, psychology, and philosophy, Religious Studies approaches its subject matter with empathy while avoiding assumptions or judgments about religious truth claims.

The BA in Humanities with a Concentration in Religious Studies emphasizes religion as an aspect of culture and investigates major religious traditions, including Hinduism, Sikhism, Jainism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam.

Students in all five available programs acquire concrete skills in critical thinking, analysis, research, writing, and organization that lead to attractive careers throughout the job market. Many of our students prepare for careers in teaching at the elementary level (as part of a Liberal Studies major program) or secondary level (as part of a single subject credential program in English/Humanities). Others pursue postgraduate study in the Humanities, History, Theology, and related fields in preparation for careers in teaching at the community college and university levels or in library, museum, or curatorial work. Humanities majors are also well-prepared for careers in government and fields such as law and counseling, which require interaction with people from diverse cultural backgrounds.
Program Requirements

Required Lower Division Courses (12 Units)

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>HRS 4</td>
<td>Exploring World Religions ¹</td>
<td>3</td>
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<tr>
<td></td>
<td>Select three of the following:</td>
<td>9</td>
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<tr>
<td>HRS 10</td>
<td>Arts and Ideas of the West: Ancient to Medieval ¹</td>
<td></td>
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<tr>
<td>HRS 11</td>
<td>Arts and Ideas of the West: Renaissance to Modern ¹</td>
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Required Upper Division Courses (9 Units)

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<tbody>
<tr>
<td>HRS 108</td>
<td>Approaches to Religious Studies</td>
<td>3</td>
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<tr>
<td></td>
<td>One course in the HRS 190 Seminar in Humanities and Religious Studies series</td>
<td>3</td>
</tr>
<tr>
<td>HRS 198</td>
<td>Seminar in Religious Studies</td>
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Required Areas of Study (9-18 Units)

Select at least three of the following, at least one from each of the categories A and B: 9 - 18 units

A. Religions with South and East Asian Origins

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>HRS 147</td>
<td>History of Buddhism ¹</td>
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<tr>
<td>HRS 173</td>
<td>Chinese Philosophy and Religion ¹</td>
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<tr>
<td>HRS 175</td>
<td>Zen Buddhism and Daoism ¹</td>
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<tr>
<td>HRS 176</td>
<td>The Confucian Tradition</td>
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<tr>
<td>HRS 178A</td>
<td>Religions of India I: The Formative Period ¹</td>
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<tr>
<td>HRS 179A</td>
<td>The Hindu Year: Fall ¹</td>
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<tr>
<td>HRS 179B</td>
<td>The Hindu Year: Spring ¹</td>
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B. Religions with West Asian Origins

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<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>HRS 117</td>
<td>Paganism in the Roman World ¹</td>
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<tr>
<td>HRS 121</td>
<td>Introduction to the Hebrew Bible/Old Testament ¹</td>
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<tr>
<td>HRS 122</td>
<td>Introduction to the New Testament</td>
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<tr>
<td>HRS/HIST 126</td>
<td>History of Christianity to the Reformation ¹</td>
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<tr>
<td>HRS/HIST 127</td>
<td>History of Christianity Since the Reformation ¹</td>
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<tr>
<td>HRS 141</td>
<td>Introduction To Judaism ¹</td>
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<tr>
<td>HRS 142</td>
<td>Introduction to Christianity ¹</td>
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<tr>
<td>HRS 144</td>
<td>Introduction To Islam ¹</td>
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Supporting Courses (0-9 Units)

Select up to three of the following: 0 - 9 units

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>HRS 105</td>
<td>Approaches to the Humanities</td>
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<tr>
<td>HRS 119</td>
<td>Classical Mythology ¹</td>
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<tr>
<td>HRS 145</td>
<td>Introduction to Islamic Cultures ¹</td>
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<tr>
<td>HRS 151</td>
<td>World Mythology ¹</td>
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<td>HRS 152</td>
<td>Great Mystics of the World ¹</td>
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<tr>
<td>HRS 154</td>
<td>Food, Farming, and the Sacred ¹</td>
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<tr>
<td>HRS 155</td>
<td>Spirit and Nature ¹</td>
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<tr>
<td>HRS 183</td>
<td>World Religions and Cultures in Cinema ¹</td>
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<tr>
<td>HRS 196</td>
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</tr>
<tr>
<td>HRS 199</td>
<td>Special Problems</td>
<td></td>
</tr>
</tbody>
</table>

With approval of HRS faculty advisor, advisor approval, a student may select up to two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 13</td>
<td>Magic, Witchcraft and Religion</td>
<td></td>
</tr>
<tr>
<td>ANTH 166</td>
<td>Rise of Religious Cults ¹</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 30-48

¹ Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities ²</td>
<td>0</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>0</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements. ²</td>
<td>0</td>
</tr>
<tr>
<td>D1</td>
<td>The Individual and Society (9 Units)</td>
<td>3</td>
</tr>
<tr>
<td>E1</td>
<td>Understanding Personal Development (3 Units)</td>
<td>3</td>
</tr>
<tr>
<td>F1</td>
<td>Ethnic Studies (3 Units)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 40
To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Required in Major; also satisfies GE.

### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td></td>
</tr>
<tr>
<td>English Composition II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-proficiency.html

### MA in Humanities

Total units required for the MA: 30

### Program Description

The Department of Humanities and Religious Studies offers an integrated approach to the study of world cultures from ancient times to the present. In our courses, students undertake interdisciplinary study of core ideas, ideals, and values. The Humanities -- known by Renaissance thinkers as studia humanitatis ("studies of humanity") -- explore such subjects as literature, history, philosophy, religion, the visual arts, music, drama, and film. Religious Studies focuses on beliefs and practices of the world's religions in their historical and cultural contexts. Employing the methods and insights of disciplines such as history, anthropology, sociology, psychology, and philosophy, Religious Studies approaches its subject matter with empathy while avoiding assumptions or judgments about religious truth claims.

The MA in Humanities provides graduate-level engagement with humanistic approaches to world cultures.

Students in all five available programs acquire concrete skills in critical thinking, analysis, research, writing, and organization that lead to attractive careers throughout the job market. Many of our students prepare for careers in teaching at the elementary level (as part of a Liberal Studies major program) or secondary level (as part of a single subject credential program in English/Humanities). Others pursue postgraduate study in the Humanities, History, Theology, and related fields in preparation for careers in teaching at the community college and university levels or in library, museum, or curatorial work. Humanities majors are also well-prepared for careers in government and fields such as law and counseling, which require interaction with people from diverse cultural backgrounds.

### Admission Requirements

Admission as a classified graduate student in Humanities requires:

- a baccalaureate degree from an accredited four-year college or university (or equivalent preparation if the student has done undergraduate work outside the U.S.);
- an undergraduate major in Humanities or in a closely related field (subject to approval by the Graduate Coordinator);
- a minimum 3.0 GPA in the last 60 semester units attempted and a minimum 3.3 GPA in Humanities courses (or in major in a related field);

Students with deficiencies in Admission Requirements that can be removed by specified additional preparation may be considered for admission with conditionally classified graduate status. Any deficiencies will be noted on a response to the admission application.

### Admission Procedures

Applicants should file the California State University, Sacramento Office of Graduate Studies application for admission to the University, and complete the supplemental application for the Department of Humanities and Religious Studies. Please check with the Office of Graduate Studies for current application deadlines.

All applicants must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470, www.csus.edu/graduate-studies:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, other than California State University, Sacramento

Applicants must also file the following supplemental application:

- statement of purpose of approximately 500 words (typed) in response to the following question: How does the Humanities master’s program fit with your talents, interests, and aspirations?
- two letters of recommendation. Letters should ideally come from college/university instructors, but if these are not available, any other credible source who can address qualifications will be acceptable (e.g., work supervisor or community leader);
- academic writing sample of 3-5 pages, to be accompanied by a brief explanation regarding the context (e.g., the course and assignment) for which the writing was produced.

### Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0
Advancement to Candidacy
Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This should be initiated by the student as soon as the student has:

- removed any deficiencies in Admission Requirements;
- completed at least 12 units of 200-level courses in the graduate program with a minimum 3.0 GPA;
- achieved a passing grade on the Humanities M.A. Preliminary Exam; and
- received a placement Score Number of 80 on the Writing Placement for Graduate Students (WPG) timed essay exam or received a grade of "B" or better in a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of course work at California State University, Sacramento or met one of the graduate GWAR equivalency standards.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with his/her HRS advisor. The completed form is then returned to the Graduate Coordinator and the Office of Graduate Studies for approval.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses (9 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HRS 200A</td>
<td>Culture and Expression: Prehistory to the Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td>HRS 200B</td>
<td>Culture and Expression: Renaissance to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HRS 202</td>
<td>Western Aesthetics: Traditions and Revision</td>
<td>3</td>
</tr>
<tr>
<td><strong>Electives (18 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 18 units from the following: 1</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

1. Choose two areas from the three (A. Ancient Humanities; B. Modern Humanities; C. Global Humanities). Students must complete 9 units in each of the two selected areas (18 units total). Six of the 18 units may consist of HRS 100-level courses with the approval of the Graduate Coordinator, AND 3 of the 18 units may consist of HRS 299 with approval of the Graduate Coordinator.

Minor in Humanities

Units required for Minor: 21

Program Description

The Department of Humanities and Religious Studies offers an integrated approach to the study of world cultures from ancient times to the present. In our courses, students undertake interdisciplinary study of core ideas, ideals, and values. The Humanities – known by Renaissance thinkers as studia humanitatis ("studies of humanity") – explore such subjects as literature, history, philosophy, religion, the visual arts, music, drama, and film. Religious Studies focuses on beliefs and practices of the world's religions in their historical and cultural contexts. Employing the methods and insights of disciplines such as history, anthropology, sociology, psychology, and philosophy, Religious Studies approaches its subject matter with empathy while avoiding assumptions or judgments about religious truth claims.

Students in all five available programs acquire concrete skills in critical thinking, analysis, research, writing, and organization that lead to attractive careers throughout the job market. Many of our students prepare for careers in teaching at the elementary level (as part of a Liberal Studies major program) or secondary level (as part of a single subject credential program in English/Humanities). Others pursue postgraduate study in the Humanities, History, Theology, and related fields in preparation for careers in teaching at the community college and university levels or in library, museum, or curatorial work. Humanities majors are also well-prepared for careers in government and fields such as law and counseling, which require interaction with people from diverse cultural backgrounds.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Lower Division Courses (6 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HRS 10</td>
<td>Arts and Ideas of the West: Ancient to Medieval</td>
<td>3</td>
</tr>
<tr>
<td>or HRS 11</td>
<td>Arts and Ideas of the West: Renaissance to Modern</td>
<td></td>
</tr>
<tr>
<td>HRS 70</td>
<td>Arts and Ideas of Asia: Ancient to Medieval</td>
<td>3</td>
</tr>
<tr>
<td>or HRS 71</td>
<td>Arts and Ideas of Asia: Medieval to Modern</td>
<td></td>
</tr>
<tr>
<td><strong>Required Upper Division Course (3 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HRS 105</td>
<td>Approaches to the Humanities</td>
<td>3</td>
</tr>
<tr>
<td><strong>Required Areas of Study (9-12 Units)</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Minor in Religious Studies

Units required for Minor: 21

Program Description

The Department of Humanities and Religious Studies offers an integrated approach to the study of world cultures from ancient times to the present. In our courses, students undertake interdisciplinary study of core ideas, ideals, and values. The Humanities – known by Renaissance thinkers as studia humanitatis ("studies of humanity") – explore such subjects as literature, history, philosophy, religion, the visual arts, music, drama, and film. Religious Studies focuses on beliefs and practices of the world’s religions in their historical and cultural contexts. Employing the methods and insights of disciplines such as history, anthropology, sociology, psychology, and philosophy, Religious Studies approaches its subject matter with empathy while avoiding assumptions or judgments about religious truth claims.

Students in all five available programs acquire concrete skills in critical thinking, analysis, research, writing, and organization that lead to attractive careers throughout the job market. Many of our students prepare for careers in teaching at the elementary level (as part of a Liberal Studies major program) or secondary level (as part of a single subject credential program in English/Humanities). Others pursue postgraduate study in the Humanities, History, Theology, and related fields in preparation for careers in teaching at the community college and university levels or in library, museum, or curatorial work. Humanities majors are also well-prepared for careers in government and fields such as law and counseling, which require interaction with people from diverse cultural backgrounds.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Required Lower Division Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HRS 4</td>
<td>Exploring World Religions</td>
<td></td>
</tr>
<tr>
<td>Required Upper Division Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HRS 108</td>
<td>Approaches to Religious Studies</td>
<td></td>
</tr>
<tr>
<td>Required Areas of Study (6-15 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select at least one course each from categories A and B:</td>
<td>6 - 15</td>
<td></td>
</tr>
<tr>
<td>A. Religions with South and East Asian Origins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HRS/HIST 147</td>
<td>History of Buddhism</td>
<td></td>
</tr>
<tr>
<td>HRS 173</td>
<td>Chinese Philosophy and Religion</td>
<td></td>
</tr>
<tr>
<td>HRS 175</td>
<td>Zen Buddhism and Daoism</td>
<td></td>
</tr>
<tr>
<td>HRS 176</td>
<td>The Confucian Tradition</td>
<td></td>
</tr>
<tr>
<td>HRS 178A</td>
<td>Religions of India I: The Formative Period</td>
<td></td>
</tr>
<tr>
<td>HRS 179A</td>
<td>The Hindu Year: Fall</td>
<td></td>
</tr>
<tr>
<td>HRS 179B</td>
<td>The Hindu Year: Spring</td>
<td></td>
</tr>
<tr>
<td>B. Religions with West Asian Origins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HRS 117</td>
<td>Paganism in the Roman World</td>
<td></td>
</tr>
<tr>
<td>HRS 121</td>
<td>Introduction to the Hebrew Bible/Old Testament</td>
<td></td>
</tr>
<tr>
<td>HRS 122</td>
<td>Introduction to the New Testament</td>
<td></td>
</tr>
<tr>
<td>HRS/HIST 126</td>
<td>History of Christianity to the Reformation</td>
<td></td>
</tr>
<tr>
<td>HRS/HIST 127</td>
<td>History of Christianity Since the Reformation</td>
<td></td>
</tr>
<tr>
<td>HRS 141</td>
<td>Introduction To Judaism</td>
<td></td>
</tr>
<tr>
<td>HRS 142</td>
<td>Introduction to Christianity</td>
<td></td>
</tr>
<tr>
<td>HRS 144</td>
<td>Introduction To Islam</td>
<td></td>
</tr>
<tr>
<td>Supporting Courses (0-9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select up to three of the following:</td>
<td>0 - 9</td>
<td></td>
</tr>
<tr>
<td>HRS 119</td>
<td>Classical Mythology</td>
<td></td>
</tr>
<tr>
<td>HRS 145</td>
<td>Introduction to Islamic Cultures</td>
<td></td>
</tr>
<tr>
<td>HRS 151</td>
<td>World Mythology</td>
<td></td>
</tr>
<tr>
<td>HRS 152</td>
<td>Great Mystics of the World</td>
<td></td>
</tr>
<tr>
<td>HRS 154</td>
<td>Food, Farming, and the Sacred</td>
<td></td>
</tr>
<tr>
<td>HRS 155</td>
<td>Spirit and Nature</td>
<td></td>
</tr>
<tr>
<td>HRS 183</td>
<td>World Religions and Cultures in Cinema</td>
<td></td>
</tr>
</tbody>
</table>

Note: With approval of HRS faculty advisor, a student may choose one course from the following departments: Art, English, Foreign Languages, History, Philosophy, Theatre and Dance.
Select one course in the HRS 190 Seminar in Humanities and Religious Studies series

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRS 196</td>
<td>Experimental Offerings in Humanities and Religious Studies</td>
</tr>
<tr>
<td>HRS 198</td>
<td>Seminar in Religious Studies</td>
</tr>
<tr>
<td>HRS 199</td>
<td>Special Problems</td>
</tr>
</tbody>
</table>

With approval of HRS faculty advisor, a student may select up to, two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 13</td>
<td>Magic, Witchcraft and Religion</td>
</tr>
<tr>
<td>ANTH 166</td>
<td>Rise of Religious Cults</td>
</tr>
<tr>
<td>COMS 165</td>
<td>Communication and Religion</td>
</tr>
<tr>
<td>ETHN 50</td>
<td>Native American Religion and Philosophy</td>
</tr>
<tr>
<td>ETHN 171</td>
<td>African Religions and Philosophies</td>
</tr>
<tr>
<td>PHIL 131</td>
<td>Philosophy Of Religion</td>
</tr>
<tr>
<td>SOC 171</td>
<td>Sociology of Religion</td>
</tr>
<tr>
<td>WGS 145</td>
<td>Feminism and the Spirit</td>
</tr>
</tbody>
</table>

**Total Units 6-24**

### Middle East and Islamic Studies

**College of Arts and Letters**

#### Program Description

The minor in Middle East and Islamic Studies (MEIS) emphasizes coursework in the history, politics, society, culture, and religion of the Middle East and the wider Islamic world. The curriculum for the program includes upper and lower division courses offered by the departments of History, Humanities and Religious Studies, Government, Sociology, Women's and Gender Studies, and Foreign Languages. Students wishing to minor in Middle East and Islamic Studies are required to consult with the program coordinator.

#### Degree Program

Minor in Middle East and Islamic Studies (p. 265)

#### Special Features

- The minor in Middle East and Islamic Studies is administered through the Department of History in the College of Arts and Letters.
- The program committee consists of faculty from several departments in the College of Arts and Letters and the College of Social Science and Interdisciplinary Studies.
- With the approval of the student’s MEIS faculty advisor and the program coordinator students may take a maximum of three (3) units of independent study towards the electives requirement for the minor. The independent study project must consist of substantial readings and research in a project developed in consultation with the student’s faculty advisor.

#### Contact Information

Dr. Serpil Atamaz, Coordinator  
3057 Tahoe Hall  
(916) 278-6008  
Middle East & Islamic Studies Website (http://www.csus.edu/MEIS/)  
atamaztopcu@csus.edu (jkwilson@csus.edu)

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### Minor in Middle East and Islamic Studies

Units required for the Minor: 18, six units maximum may be from lower division coursework

#### Program Description

The minor in Middle East and Islamic Studies (MEIS) emphasizes coursework in the history, politics, society, culture, and religion of the Middle East and the wider Islamic world. The curriculum for the program includes upper and lower division courses offered by the departments of History, Humanities and Religious Studies, Government, Sociology, Women's and Gender Studies, and Foreign Languages.

**Note:** Students wishing to minor in Middle East and Islamic Studies are required to consult with the program coordinator.

#### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Islamic Studies Requirement (3 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 8</td>
<td>Islam and the West</td>
<td>3</td>
</tr>
<tr>
<td>HRS 144</td>
<td>Introduction To Islam</td>
<td></td>
</tr>
<tr>
<td><strong>Modern Middle East Requirement (6 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>HIST 143B</td>
<td>The Modern Middle East</td>
<td></td>
</tr>
<tr>
<td>POLS 148</td>
<td>Governments and Politics in the Middle East</td>
<td></td>
</tr>
<tr>
<td>SOC 162</td>
<td>Middle Eastern Societies and Culture</td>
<td></td>
</tr>
<tr>
<td><strong>Electives (9 Units)</strong></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select three of the following (choices must come from two or more departments):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARBC 1A</td>
<td>Elementary Arabic</td>
<td></td>
</tr>
<tr>
<td>ARBC 1B</td>
<td>Elementary Arabic</td>
<td></td>
</tr>
<tr>
<td>ARBC 2A</td>
<td>Intermediate Arabic</td>
<td></td>
</tr>
<tr>
<td>HIST 8</td>
<td>Islam and the West</td>
<td></td>
</tr>
<tr>
<td>HIST 106</td>
<td>Everyday Life and Society in Antiquity</td>
<td></td>
</tr>
<tr>
<td>HIST 108</td>
<td>Ancient Egypt: History &amp; Culture</td>
<td></td>
</tr>
<tr>
<td>HIST 110</td>
<td>The Ancient Near East: A Cultural History</td>
<td></td>
</tr>
<tr>
<td>HIST 143A</td>
<td>Middle Eastern History to 1800</td>
<td></td>
</tr>
<tr>
<td>HIST 143B</td>
<td>The Modern Middle East</td>
<td></td>
</tr>
<tr>
<td>HIST 143C</td>
<td>Ottoman State and Society</td>
<td></td>
</tr>
<tr>
<td>HIST 192Z</td>
<td>Seminar in Recent Interpretations of a Special Topic ((with a focus on the Middle East))</td>
<td></td>
</tr>
<tr>
<td>HIST 199</td>
<td>Special Problems ((with a focus on the Middle East))</td>
<td></td>
</tr>
<tr>
<td>HRS 144</td>
<td>Introduction To Islam</td>
<td></td>
</tr>
<tr>
<td>HRS 145</td>
<td>Introduction to Islamic Cultures</td>
<td></td>
</tr>
<tr>
<td>HRS 152</td>
<td>Great Mystics of the World</td>
<td></td>
</tr>
<tr>
<td>POLS 137</td>
<td>Nationalism</td>
<td></td>
</tr>
<tr>
<td>POLS 148</td>
<td>Governments and Politics in the Middle East</td>
<td></td>
</tr>
<tr>
<td>SOC 162</td>
<td>Middle Eastern Societies and Culture</td>
<td></td>
</tr>
<tr>
<td>SOC 163</td>
<td>Conflict, Oil and Development in the Middle East</td>
<td></td>
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<tr>
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School of Music Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is on performance. Sustaining this concept is the School’s faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University’s program.

Degree Programs

BA in Music (p. 282)
Bachelor of Music (Instrumental) (p. 283)
Bachelor of Music (Jazz Studies) (p. 285)
Bachelor of Music (Keyboard) (p. 287)
Bachelor of Music (Music Education) (p. 289)
Bachelor of Music (Jazz Education) (p. 285)
Bachelor of Music (Theory/Composition) (p. 291)
Bachelor of Music (Voice) (p. 293)
Minor in Music (p. 299)
Master of Music (Conducting) (p. 296)
Master of Music (Composition) (p. 295)
Master of Music (Performance) (p. 297)
The Performer’s Certificate (p. 299)

Accreditation

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Arts, Bachelor of Music, and Master of Music are also individually accredited by the National Association of Schools of Music.

Notice to Students RE: Professional Licensure and Certification

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features

- With all of its degree programs fully accredited by the National Association of Schools of Music, the Sacramento State School of Music has developed a regional and national reputation for the high quality of its faculty and the superior achievements of its students and performing ensembles.
- Each year the School of Music presents a large number of performances to the campus and the greater Sacramento area. These include concerts by the bands, orchestra, jazz ensembles, concert choir, chorus, and opera workshop. For over 40 years, the Festival of New American Music has been an important part of the musical scene in the United States. Other concerts are part of the Piano Series, the New Millennium Series, and the World Music Series.
- In addition, the School of Music has brought to campus such notable personalities as composers George Crumb, Anthony Davis, Pauline Oliveros, Terry Riley, and Joan Tower; pianists Gilbert Kalish, Michael Mizrahi, and Garrick Ohlsson; violinist Rachel Barton Pine; the Juilliard Quartet; the Kronos Quartet; Imani Winds; opera star Denyce Graves; and jazz greats Bobby Hutcherson and Bob Mintzer.
- Several music faculty have written textbooks; a number of them are composers with numerous performances to their credit; others perform frequently nationally and internationally.

Note: After an initial session with the School’s Admissions Advisor & Program Counselor, the student will be assigned to an applied instructor for future advising. The advising process is greatly enhanced by the regular weekly contact between student and instructor/advisor.

Career Possibilities

Conductor · Soloist · Composer · Private Teaching · Music Librarian · Music Therapy · Music Criticism · Music Publishing · Opera · Accompanist · Recreation Specialist · Recording Industry · Producer, Arranger, Copyist · Studio Performer · Music Education: General Music, Vocal Instruction, Instrumental Instruction, Administration, College Teaching · Church Music: Music Director, Choir Director, Organist

Contact Information

Stephen Blumberg, Director, School of Music
Faculty

BLUMBERG, STEPHEN
CIONCO, RICHARD M.
FRANKENBACH, CHANTAL
KITKA, CLAUDIA
KRECKMANN, ANDREW
LI, SHUYING
MORSE, MATTHEW
PERKINS, SCOTT
PRESLER, ANNA
REDFIELD, CLAY
ROACH, STEVE

MUSC 3. MIDI Sequencing and Notation. 2 Units
Term Typically Offered: Fall, Spring

Introduction to professional music software applications and MIDI hardware. Exploration of various hardware options such as keyboards, computers, synthesizers, samplers, and drum machines. Topics include basic MIDI principles, creating, performing, and printing music using computer-based sequencing and notation software.

MUSC 4. Elements Of Music. 2 Units
Term Typically Offered: Fall only

Elements of Music is designed to introduce you to some of the fundamental materials of music and musicianship with the goal of attaining basic musical literacy. The course focuses on the understanding of some of the ways rhythm and pitch function in music, the interpretation of the most common elements of a musical score, and the association of music notation with sound.

MUSC 8. Basic Music. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Orientation designed to provide musical knowledge, skills, and competencies necessary for reading music or listening to music. Note: May not be taken for credit by music majors.

MUSC 9. Music In World Cultures. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Designed as a survey of world music for music majors. Explores how music is used as a form of human expression in all cultures. Musical instruments, forms and styles, and the roles and functions of music in traditional and contemporary societies in various cultures throughout the world.

MUSC 10A. Survey of Music Literature I. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Survey of Medieval, Renaissance and Baroque music literature in Western art music, its stylistic development, and cultural context. Emphasis on score reading and listening. Introduction to primary source readings and musicological literature.

MUSC 10B. Survey of Music Literature II. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Survey of Classical and Romantic music literature in Western art music, its stylistic development, and cultural context. Emphasis on critical listening and reading multi-part musical notation in treble and bass clefs. Introduction to primary source readings and musicological literature.

MUSC 10C. Survey of Music Literature III. 3 Units
Term Typically Offered: Fall only

Survey of 20th and 21st Century music literature in Western art music, its stylistic development, and cultural context. Emphasis on score reading and listening. Introduction to primary source readings and musicological literature.

MUSC 11A. Music Theory I. 2 Units
Prerequisite(s): MUSC 4 or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 12A for students enrolled in all music degree programs other than the BA Music degree.
Term Typically Offered: Fall, Spring

Theory I is designed to introduce students to some of the materials and structures of certain styles of tonal and modal music. The course begins with a brief review of fundamentals before moving quickly into the understanding of two important kinds of notational shorthand. The second half of the course is concerned primarily with the study of counterpoint. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 11B. Music Theory II. 2 Units
Prerequisite(s): MUSC 11A or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 12B for students enrolled in all music degree programs other than the BA Music degree.
Term Typically Offered: Fall, Spring

Theory II is designed to deepen students' understanding of some of the materials and structures of certain styles of tonal and modal music. The course is a balance of taking music apart through score analysis and putting music together through model composition, or creating original music that imitates a particular style. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.
MUSC 11C. Music Theory III. 2 Units
Prerequisite(s): MUSC 11B or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 12C for students enrolled in a music degree program other than the BA Music degree
Term Typically Offered: Fall, Spring

Theory III is designed to deepen students' understanding of some of the materials and structures of certain styles of tonal and modal music. The course is a balance of taking music apart through score analysis and putting music together through model composition, or creating original music that imitates a particular style. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 12A. Musicianship I. 2 Units
Prerequisite(s): MUSC 4 or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 11A
Term Typically Offered: Fall, Spring

Musicianship I is a skills-focused course designed to improve the way students associate music notation with sound. By improving their skills in this area, students will be able to read music more quickly and accurately, and understand better the music they are listening to. They will accomplish these tasks through a structured approach to sight-reading, transcription, improvisation, and keyboard playing. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 12B. Musicianship II. 2 Units
Prerequisite(s): MUSC 12A or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 11B.
Term Typically Offered: Fall, Spring

Musicianship II is a skills-focused course designed to improve the way students associate music notation with sound. By improving their skills in this area, students will be able to read music more quickly and accurately, and understand better the music they are listening to. They will accomplish these tasks through a structured approach to sight-reading, transcription, improvisation, and keyboard playing. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 12C. Musicianship III. 2 Units
Prerequisite(s): MUSC 12B or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 11C.
Term Typically Offered: Fall, Spring

Musicianship III is a skills-focused course designed to improve the way students associate music notation with sound. By improving their skills in this area, students will be able to read music more quickly and accurately, and understand better the music they are listening to. They will accomplish these tasks through a structured approach to sight-reading, transcription, improvisation, and keyboard playing. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 14B. Basic Piano for Majors. 1 Unit
Prerequisite(s): Music major or minor and instructor permission.
Term Typically Offered: Fall, Spring

Development of fundamental keyboard skills for the non-keyboard Music major. Sectioned according to the ability of the student. Completion of MUSC 14D meets the departmental piano requirement.

MUSC 14C. Basic Piano for Majors. 1 Unit
Prerequisite(s): Music major or minor and instructor permission.
Term Typically Offered: Fall, Spring

Development of fundamental keyboard skills for the non-keyboard Music major. Sectioned according to the ability of the student. Completion of MUSC 14D meets the departmental piano requirement.

MUSC 14D. Basic Piano for Majors. 1 Unit
Prerequisite(s): Music major or minor and instructor permission.
Term Typically Offered: Fall, Spring

Development of fundamental keyboard skills for the non-keyboard Music major. Sectioned according to the ability of the student. Completion of MUSC 14D meets the departmental piano requirement.

MUSC 17. Voice Class. 1 Unit
Term Typically Offered: Fall, Spring

Elementary instruction in the correct use of the singing voice and the development of style in singing. Open to all students beginning the study of voice. Recommended for elementary credential candidates. May be taken for credit four times.

MUSC 18. Music Appreciation. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Basic music orientation for the layman. A non-technical consideration of the various aspects of music literature designed to stimulate interest in all phases of music.

Note: Not open to music majors.

MUSC 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the meaning of higher education for a music major; to the resources of the University, and to skills for lifelong learning. Designed to help students develop academic success strategies, time management for the music major, and to improve information literacy, intercultural competence, and integrative thinking. Special attention to career readiness for music majors. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.
MUSC 25. Voice For Music Theater. 1 Unit
Prerequisite(s): Instructor permission and proficiency examination.
Term Typically Offered: Fall, Spring

Training in vocal techniques and repertoire of the modern American musical theater. May be taken for credit twice.

MUSC 32A. Piano: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 32B. Piano: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 35A. Harpsichord/Organ: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only.
Note: May be taken for credit four times.

MUSC 35B. Harpsichord/Organ: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only.
Note: May be taken for credit four times.

MUSC 37A. Voice: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 37B. Voice: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 38D. Beginning Hand Drums. 1 Unit
Term Typically Offered: Fall, Spring

Explores the fundamentals of hand-drumming through two methods of study: the music of North India, the tabla drums and the rhythmic system of Hindustani music and rhythms of the Middle East through traditional drums, including the tar, riqq, and dumbek.

MUSC 38S. Beginning Shakuhachi. 1 Unit
Term Typically Offered: Fall, Spring

Elementary class instruction in the fundamentals of playing the traditional Japanese flute known as the shakuhachi. The focus is on fundamental blowing and fingering techniques, as well as the basis of the fu ho u notation system.
Note: Open to Music majors and minors; others by instructor permission.

MUSC 39. Beginning Folk Guitar. 1 Unit
Term Typically Offered: Fall, Spring

Folk guitar for the beginner, with emphasis on chords and strums as well as the playing of melodies. Guitars are to be furnished by the student.

MUSC 40B. Brass Methods. 1 Unit
Term Typically Offered: Fall only

Class instruction in brass instruments including performance techniques and pedagogy. Required for Music Education majors; other music majors admitted if space permits.

MUSC 40P. Percussion Methods. 1 Unit
Term Typically Offered: Spring only

Class instruction in percussion instruments including fundamental performance techniques and pedagogy. Required for Music Education majors; other music majors admitted if space permits.

MUSC 40S. String Methods. 1 Unit
Term Typically Offered: Fall only

Class instruction in string instruments. Instruction of fundamental performance techniques and pedagogy of string instruments. Required for Music Education majors; other music majors admitted if space permits.

MUSC 40W. Woodwinds Methods. 1 Unit
Term Typically Offered: Spring only

Class instruction in woodwind instruments. Instruction of fundamental performance techniques and pedagogy. Required for Music Education majors; other music majors admitted if space permits.

MUSC 42. Introductory Composition. 2 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall only

Individual instruction in composition for the beginning composition major. Work will be designed to fit the preparation of the student, with emphasis on principles of sound melodic and harmonic construction. Original compositions will develop a mastery of the smaller forms. May be taken twice for credit.

MUSC 43A. Jazz Improvisation I. 2 Units
Prerequisite(s): MUSC 11B
Term Typically Offered: Fall, Spring

Part one of a two-semester study of jazz improvisation required of all jazz studies majors. This course will provide the student with basic and intermediate skills of creative improvisation styles in the jazz idiom. In order to expand the skill level of improvisation of each particular jazz student, this class will focus on four main areas: listening, scale and chord development, repertory development and transcribing jazz solos.
MUSC 43B. Jazz Improvisation II. 2 Units
Prerequisite(s): MUSC 43A
Term Typically Offered: Fall, Spring

Part two of a two-semester study of jazz improvisation required of all jazz studies majors. The course will provide the student with intermediate and advanced skills of creative improvisation styles in the jazz idioms. In order to expand the skill levels of improvisation of each particular jazz student, this class will focus on four main areas: listening, scale and chord development, repertory development, and transcribing jazz solos.

MUSC 45A. West African Drumming. 1 Unit
Term Typically Offered: Fall, Spring

Students will turn the classroom into a cross-cultural space as they engage and explore West African folkloric music through guided viewing of multimedia; discussion of culture as a living, evolving entity; and rehearsing and performing on West African percussion instruments as an ensemble. Students will improve their rhythm skills, learn about West African musical performance practice, experience and reflect on new modes of artistic expression, and deepen their understanding of African culture and its relationship to the West.

Note: Instruments will be provided to students at no charge.

MUSC 50. Jazz Applied: Intermediate. 1 Unit
Prerequisite(s): Approval by jazz area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction in jazz performance.

Note: May be taken for credit four times.

MUSC 55A. Violin: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 55B. Violin: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 55A. Viola: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 55B. Viola: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 56A. Flute: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 56B. Flute: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 57A. Cello: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 57B. Cello: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 58A. Double Bass: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 58B. Double Bass: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 60. Introduction to String Project Pedagogy. 1 Unit
Term Typically Offered: Fall, Spring

In this course students study pedagogical techniques and participate in a step-by-step practicum as assistant teachers in the Sacramento State String Project. Set in a rigorous teaching lab, the course gives students experience both observing and assistant teaching in the String Project program. Student assistants master effective methods of teaching fundamental string instrument skills to beginners, including correct position, tone production, reading proficiency, intonation, phrasing and listening.

MUSC 65A. Oboe: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 65B. Oboe: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 66A. Recorder: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.
MUSC 66B. Oboe: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 67A. Bassoon: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 67B. Bassoon: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 68A. Clarinet: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 68B. Clarinet: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 69A. Saxophone: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 69B. Saxophone: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 70A. Percussion: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 70B. Percussion: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 71A. Harp: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 71B. Harp: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 74A. Guitar: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 74B. Guitar: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 90A. Trumpet: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 90B. Trumpet: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 91A. Trombone: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.
MUSC 91B. Trombone: Intermediate - BM.  1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 92A. Baritone: Intermediate.  1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 92B. Baritone: Intermediate - BM.  1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 93A. French Horn: Intermediate.  1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 93B. French Horn: Intermediate - BM.  1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 94A. Tuba: Intermediate.  1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 94B. Tuba: Intermediate - BM.  1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 96. Intro to Hip-Hop Beat-Making.  1 Unit
Corequisite(s): MUSC 118D
This one-unit course is an optional lab supplement to the Area C1 GE course 118D: Hip-Hop in Urban America. Students will learn skills in hip-hop production software including Reason and Ableton Live. Students will learn to create beats including instrument building, sampling, and sequencing. The lab will offer students the opportunity to engage in a hands-on way with the course material in Music 118D, and will track the regional scope of the course schedule closely.

MUSC 96A. West African Drumming.  1 Unit
Term Typically Offered: Fall, Spring

Students will turn the classroom into a cross-cultural space as they engage and explore West African folkloric music through readings, critical listening, essay responses, and performance in an ensemble setting using several West African drums and percussion instruments. Students will improve their rhythm skills, learn about West African musical performance practice, experience and reflect on new modes of artistic expression, and deepen their understanding of African culture and its relationship to the West.

Note: Instruments will be provided to students at no charge.

MUSC 99. Special Problems.  1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the work is to be conducted and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for lower division students. Open only to students who appear competent to carry on individual work. Credit/No Credit

MUSC 100A. Concert Attendance.  1 Unit
Term Typically Offered: Fall, Spring

Designed to develop critical listening, aural analysis, and the appreciation of a wide range of musical forms and genres. Each student will be required to attend a minimum of ten concerts approved by the Music Department and submit a portfolio of programs attended. Written reviews are required for a determined number of the ten concerts attended.

MUSC 100B. Concert Attendance.  1 Unit
Term Typically Offered: Fall, Spring

Designed to develop critical listening, aural analysis, and the appreciation of a wide range of musical forms and genres. Each student will be required to attend a minimum of ten concerts approved by the Music Department and submit a portfolio of programs attended with comments about the music and performance. May be taken for credit eight times.

MUSC 101. Experiences In Music.  3 Units
Term Typically Offered: Fall, Spring

Development of essential musical skills and knowledge for teaching music in the elementary classroom including competencies necessary for reading and notating music in the elementary classroom. The study of curriculum and literature through songs, rhythmic movement, instrumental activities, creating and improvisation, and listening. Lecture/lab.

Note: Required for the Liberal Studies major.

MUSC 104. Contemporary Music Theory and Musicianship.  3 Units
Prerequisite(s): MUSC 11C and MUSC 12C, or placement by exam at the time of university enrollment.
Term Typically Offered: Spring only

In this course, students will engage the art music of today from both a theoretical standpoint; that is, an understanding of musical materials and structures through analysis; and a creative standpoint; that is, creating your their music based upon the models they study through composition and improvisation.
MUSC 107. Composition. 2 Units
Prerequisite(s): Undergraduate major in music, MUSC 42, or instructor permission.
Term Typically Offered: Fall, Spring

Individualized practical experience in the composition of music. Students are allowed freedom in the development of a personal music style and the exploration of forms and genres. May be taken for credit four times.

MUSC 108A. Jazz Arranging I. 2 Units
Prerequisite(s): MUSC 3 or instructor permission.
Term Typically Offered: Fall, Spring

Part I of a two-semester study of arranging. Provides basic and intermediate tools of creative writing and arranging styles in the jazz idiom as applied to the small jazz ensemble (jazz combo).

MUSC 108B. Jazz Arranging II. 2 Units
Prerequisite(s): MUSC 108A or instructor permission.
Term Typically Offered: Fall, Spring

Part 2 of a two-semester study of arranging. Addresses creative writing in the idiom of the large jazz ensemble (big band). Two major projects are required, performed and recorded. Jazz orchestration is the central focus with special attention to the idiomatic demands from the sections of the big band and how they relate to each other.

MUSC 109. Instrumentation and Arranging. 3 Units
Prerequisite(s): MUSC 11C and MUSC 12C, or placement by exam at the time of university enrollment.
Term Typically Offered: Fall only

This class is designed to introduce students to two topics: instrumentation, or the properties of various instruments and voices, and how to write for them; and orchestration, or how to combine instruments effectively. The approach will be hands-on in nature: students will be called upon to demonstrate their instrument and perform in class, and they will often orchestrate music for their classmates to perform in class.

MUSC 110. Research in Music History. 3 Units
Prerequisite(s): MUSC 10A, 10B, and 10C; MUSC 11C, Music majors or minors only, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Capstone research in special topics of music history. Emphasis on critical reading, writing, and speaking. This course satisfies the writing intensive requirement for music majors.

MUSC 118C. History of Rock Music. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A survey of rock music history. Emphasis is placed on the diverse influences and subsequent development of classic rock musical styles through the study of recorded examples and videos by major artists of the 20th century. Discussion of the social conditions surrounding the evolution of rock music will be included.

MUSC 119. World Music: Asia. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examines music from cultures in Asia. Music is examined as a cultural process, a cultural object and as sound. Musical instruments, forms and styles are discussed along with the roles and functions of music. Although traditional music will be emphasized, contemporary and popular music will also be discussed.

MUSC 125. Advanced Voice for Music Theater. 1 Unit
Prerequisite(s): MUSC 25 or instructor permission and proficiency examination.
Term Typically Offered: Fall, Spring

Designed to give singers advanced training in vocal techniques, interpretation, stage presence, audition preparation, through the utilization of modern musical theater repertoire commensurate with the individual abilities of each class participant.
Note: May be taken twice for credit.
### MUSC 127. The American Musical Theater. 3 Units
**Prerequisite(s):** GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

**General Education Area/Graduation Requirement:** Arts (Area C1), Writing Intensive Graduation Requirement (WI)

**Term Typically Offered:** Fall, Spring

Study of Broadway musicals. Examination of the music, lyrics, dramatic structure, and use of dance in selected shows which demonstrate the evolution of the American musical from its inception through contemporary forms. Includes reading, discussion, listening assignments, and attendance at live performances.

### MUSC 129. American Society and Its Music. 3 Units
**Prerequisite(s):** GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

**General Education Area/Graduation Requirement:** Writing Intensive Graduation Requirement (WI), Arts (Area C1)

**Term Typically Offered:** Fall, Spring

Introduction, through reading, discussion, taped assignments in the Music Department listening center, live music in the classroom, and outside live listening assignments, to all significant manifestations of American music, its roots, and their place in American life. Includes folk, religious, popular, jazz, and fine-art music.

### MUSC 130. Pedagogy of Music Theory and Musicianship. 3 Units
**Prerequisite(s):** MUSC 11C and MUSC 12C, or placement by exam at the time of university enrollment.

**Term Typically Offered:** Fall only

This course will serve as a laboratory in which you will learn about and try out effective written theory and aural skills pedagogical practices. You will read research by leading music theorists and cognitive scientists, survey textbooks, develop lesson plans and courses, practice-teach your classmates, and tutor Sacramento State students.

### MUSC 132A. Piano: Advanced. 1 Unit
**Prerequisite(s):** Approval by applied area committee and instructor permission.

**Term Typically Offered:** Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

### MUSC 132B. Piano: Advanced - BM. 1 Unit
**Prerequisite(s):** Admission to the BM degree program, approval by applied area committee and instructor permission.

**Term Typically Offered:** Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

### MUSC 135A. Harpsichord/Organ: Advanced. 1 Unit
**Prerequisite(s):** Approval by applied area committee and instructor permission.

**Term Typically Offered:** Fall, Spring

Individual instruction. Music majors only.

### MUSC 135B. Harpsichord/Organ: Advanced - BM. 1 Unit
**Prerequisite(s):** Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.

**Term Typically Offered:** Fall, Spring

Individual instruction. Music majors only.

### MUSC 136A. Diction For Singers. 3 Units
**Term Typically Offered:** Fall, Spring

International Phonetic Alphabet and its application to song literature in Latin, Italian, German, French, and English. Designed for advanced voice majors, others admitted by instructor permission.

### MUSC 136B. Vocal Pedagogy. 3 Units
**Term Typically Offered:** Fall, Spring

Study of the methods, problems and practical application of teaching singing. Topics will include the functional unity of the singing voice, pedagogical principles, and current methods/resources in voice training, teaching the beginning singer. Designed for voice majors; others admitted with instructor permission.

### MUSC 136C. Song Literature for Solo Performance and Study. 3 Units
**Prerequisite(s):** Junior standing (must have completed 60 units prior to registration).

**Term Typically Offered:** Fall, Spring

A broad survey of classical song literature for solo voice and piano from the Baroque era to the present day. Topics will include the joining of music and poetry in the art song; identifying stylistic elements of classical song and poetry; cultural influences on its development; compositional techniques used by selected European, South American, and North American composers; and the use of art song in teaching. Designed for music majors; others admitted with instructor permission.

### MUSC 137A. Voice: Advanced. 1 Unit
**Prerequisite(s):** Approval by applied area committee and instructor permission.

**Term Typically Offered:** Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

### MUSC 137B. Voice: Advanced - BM. 1 Unit
**Prerequisite(s):** Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.

**Term Typically Offered:** Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

### MUSC 140. Jazz Theory and Harmony. 2 Units
**Prerequisite(s):** MUSC 11C and instructor permission.

**Term Typically Offered:** Spring only

Introduction to the theoretical language of jazz improvisation: rhythms, articulations, style, harmony and melody, forms, simple analysis, chord/scale relationships, ear training and keyboard harmony.
MUSC 141A. Piano Chamber Music.  2 Units
Prerequisite(s): 4 semesters of MUSC 142.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring

Instruction in small ensemble rehearsal performance. Focus given to duos, trios, and quartets of various instrumentation with piano. Includes required performances, listening, reading, and examination.

MUSC 141B. Piano Chamber Music.  2 Units
Prerequisite(s): MUSC 141A.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring

Continued instruction in small ensemble rehearsal performance. Focus on duos, trios, and quartets of various instrumentation with piano. Includes required performances, listening, reading, and examination.

MUSC 142B. Concert Band.  1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142C. University Chorale.  1 Unit
Term Typically Offered: Fall, Spring

The University Chorale is a large performing ensemble open to students and experienced volunteers, pending a formal audition. On-campus and off-campus performances are announced each semester. This highly select ensemble performs music from historic periods as well as the most contemporary. This ensemble is often called upon to represent the University in various capacities, including recruitment and performance tours.

MUSC 142M. Marching Band.  2 Units
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142S. String Ensemble.  1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142W. Symphonic Wind Ensemble.  1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142X. University Singers.  1 Unit
Term Typically Offered: Fall, Spring

University Singers is a large performing ensemble of treble voices (soprano & alto) and is open to students and experienced volunteers, pending a formal audition. On-campus and off-campus performances as announced each semester. This select ensemble performs music from historic periods as well as the most contemporary. This ensemble is sometimes called upon to represent the University in various capacities, including recruitment and performance tours.

MUSC 143J. Instrumental Jazz Ensemble.  1 Unit
Term Typically Offered: Fall, Spring

Rehearsal and performance of literature written for instrumental jazz ensemble.

Note: May be taken for credit eight times.

MUSC 144B. Brass Ensemble.  1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144L. Chamber Music -- Liberace.  1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144P. Percussion Ensemble.  1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144S. String Ensemble.  1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144W. Woodwind Ensemble.  1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144X. Saxophone Ensemble.  1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.
MUSC 145. Pep Band. 1 Unit
Corequisite(s): MUSC 142W, MUSC 142B, or MUSC 142M, or instructor permission.
Term Typically Offered: Fall, Spring
Performance of instrumental music for university and community events.
MUSC 146. Camerata Capistrano Baroque. 1 Unit
Term Typically Offered: Fall, Spring
A conductor-less ensemble that explores in-depth score study, detailed techniques for stylistic performance, and advanced concertante playing of varied repertoire from the Renaissance to contemporary works in groupings of diverse size. Instrumentalists, keyboardists and singers are invited to experience repertoire not normally encountered in the symphony orchestra or traditional chamber groups. Students will achieve a more comprehensive understanding of musical preparation, ensemble discipline and conductor-less performance, culminating in a final concert for a public audience. Paired with MUSC 246.
Note: Each participant must be an enrolled student or registered volunteer, admitted with Instructor permission. Non-Music majors must purchase a music fee card (Lassen Hall) in order to participate. Registered volunteers will receive a parking pass for rehearsal times after required paperwork is completed. May be taken for credit eight times.

MUSC 150. Jazz Applied: Advanced BM. 2 Units
Prerequisite(s): Approval by jazz area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction in jazz performance.
Note: May be taken for credit four times.

MUSC 150A. Jazz Applied: Advanced Mus Ed Emphasis. 1 Unit
Prerequisite(s): Approval by jazz area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction in jazz performance for students pursuing the Music Education emphasis.
Note: May be taken for credit four times.

MUSC 151. Fundamentals of Conducting. 2 Units
Prerequisite(s): MUSC 2, MUSC 7.
Term Typically Offered: Fall only
Basic techniques and skills of conducting. Areas of concern are all basic patterns in simple, compound and asymmetrical meters, correct baton technique, styles, appropriate left hand usage, tempi, fermatas, and introduction to simple score reading.

MUSC 153. Advanced Choral Conducting. 2 Units
Prerequisite(s): MUSC 151.
Term Typically Offered: Spring only
Choral techniques, including rehearsal procedures, score analysis, choral/orchestral repertoire, and approaches to choral literature from the main history eras.

MUSC 154. Advanced Instrumental Conducting. 2 Units
Prerequisite(s): MUSC 151.
Term Typically Offered: Spring only
Instrumental conducting techniques including refinement of basic conducting skills, rehearsal procedures, score study, and familiarization with and interpretation of instrumental literature.

MUSC 155A. Violin: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 155B. Violin: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 156A. Viola: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 156B. Viola: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 157A. Cello: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 157B. Cello: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 158A. Double Bass: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 158B. Double Bass: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.
MUSC 160. Advanced String Project Pedagogy. 1 Unit
Prerequisite(s): MUSC 60 and instructor consent
Term Typically Offered: Fall, Spring

This course is a step-by-step practicum that prepares students to be lead teachers in the Sacramento State Strings Project. Set in rigorous teaching lab, the course gives students experience in creating lesson plans and teaching in the String Project program. Student teachers learn to apply effective pedagogical methods and techniques to teach fundamental skills to beginning level children and more advanced skills to intermediate-level children.

MUSC 161. Jazz Pedagogy. 2 Units
Term Typically Offered: Spring only

Develops skills in the teaching of jazz in all of its facets and dimensions by a variety of approaches to materials, techniques and philosophies surrounding jazz education. Choosing, editing, rehearsing and programming concert materials will be taught. Also taught are scheduling, music and equipment maintenance, basic administration concerns, and other factors pertinent to operating a jazz program.

MUSC 162. Foundations of Music Education. 2 Units
Prerequisite(s): Sophomore status in music or instructor permission.
Term Typically Offered: Fall only

For majors considering a teaching career. Overview of the history, principal philosophies, current issues, methodologies and materials related to Music Education in kindergarten through twelfth grade. Guided classroom and/or rehearsal observations at the elementary, middle/junior high school and senior high levels. Required for the Music Education major.

MUSC 164. Music in General Education. 2 Units
Prerequisite(s): Sophomore status in music or instructor permission.
Term Typically Offered: Spring only

Curricular and instructional strategies for non-performance music classes in kindergarten through twelfth grade. Teaching techniques for classroom instruments, with emphasis on folk guitar. Required for the Music Education major.

MUSC 165A. Flute: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 165B. Flute: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 166A. Oboe: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 166B. Oboe: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 167A. Bassoon: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 167B. Bassoon: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 168A. Clarinet: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 168B. Clarinet: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 169A. Saxophone: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 169B. Saxophone: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 170A. Percussion: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.
MUSC 170B. Percussion: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 171A. Harp: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 171B. Harp: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 172. Repertoire Class in the Performance Major. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Parallel class taken in conjunction with the performance major to supplement student's knowledge of the literature, performance practice, pedagogy, and criticism of their chosen instrument or voice. May be taken for credit eight times.

MUSC 173A. Vocal Accompanying. 2 Units
Prerequisite(s): 4 semesters of MUSC 142.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring

Introductory course to piano accompanying with an emphasis on vocal literature. Includes techniques of sight reading, elementary transposition, and interpretation of lieder from the pianist's point of view.

MUSC 173B. Vocal Accompanying. 2 Units
Prerequisite(s): MUSC 173A.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring

Continuing study of piano accompanying with an emphasis on art song repertoire. Includes techniques of sight reading, transposition, rehearsing, as well as realization of orchestral reductions. Performances required.

MUSC 174A. Guitar: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 174B. Guitar: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 175. Junior Recital. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, or instructor permission.
Term Typically Offered: Fall, Spring

Formal recital demonstrating the performance abilities of the student. Contents of the program must be approved by instructor in the major performance medium, and permission to enroll approved by the appropriate faculty committee of the performance medium.

MUSC 176. Piano Pedagogy. 2 Units
Prerequisite(s): 4 units of MUSC 32B or equivalent; admission to Bachelor of Music program, or instructor permission.
Term Typically Offered: Spring only

Study of the content, methods and problems of teaching the piano with an emphasis on the first years of instruction for both the child and adult beginner.

MUSC 178. Vocal Literature and Materials (Grades 4-12). 3 Units
Corequisite(s): Phase III Student Teaching.
Term Typically Offered: Fall only

Methods and materials for teaching voice and choral music in grades 4-12. Includes introduction to singing, care and development of the student voice, rehearsal techniques, and selection of materials appropriate for use in small and large choral ensembles.
Note: Required for Music Education students enrolled in Phase III of the Credential Program.

MUSC 179. Instrumental Literature and Materials. 2 Units
Prerequisite(s): 4 units in MUSC 40.
Term Typically Offered: Fall, Spring

Methods and materials for teaching voice and choral music in grades 4-12. Includes introduction to singing, care and development of the student voice, rehearsal techniques, and selection of materials appropriate for use in small and large choral ensembles.
Note: Required for instrumental students and recommended for choral students.

MUSC 180. Advanced Counterpoint. 2 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

In this course, students learn contrapuntal techniques used in musical styles from the 16th century to the present. Students analyze extant works from a contrapuntal perspective, complete short composition exercises, and create original pieces in various historical styles. The styles and exercises will be designed to a large extent to fit the needs, preparation, and interest of individual students.

MUSC 183. Digital Synthesis and Sampling. 2 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Course for students with previous electronic music experience who wish to gain more technical background. Topics include various principles of digital synthesis with an emphasis on independent voice construction, principles of sampling synthesizers, computer-based digital synthesis, and advanced MIDI applications.
MUSC 184. Senior Seminar.
Prerequisite(s): Music major with senior standing
Term Typically Offered: Fall, Spring
Weekly seminar for senior students in the B.A. Music concentration. Senior portfolio preparation, resume preparation, and career planning. Credit/No Credit

MUSC 185. Senior Recital.
Term Typically Offered: Fall, Spring
A formal recital demonstrating the performance abilities of the student. Required of all majors completing the Bachelor’s degree in Music. Permission to enroll by permission of the appropriate faculty committee. MUSC 185H or MUSC 185A may be substituted for 185 with the permission of the appropriate faculty committees. Contents of the program must be approved and supervised by instructor in the performance medium.

MUSC 185A. Senior Audition.
Term Typically Offered: Fall, Spring
Informal program presented before a faculty committee and invited guests. It is designed to accommodate students who have special problems in developing their performance to Senior Recital level. Registration must be approved by the applied music faculty, and contents of the audition approved and supervised by instructor in the performing medium.

MUSC 185E. Senior Recital Music Education.
Term Typically Offered: Fall, Spring
Formal half recital, generally shared with another student. Required of students completing the BM in Music Education degree. Registration must be approved by the applied music faculty and contents of the audition approved and supervised by instructor in the performance medium.

MUSC 185H. Honors Recital.
Term Typically Offered: Fall, Spring
Applied music faculty may designate outstanding performers for an Honors Recital. Contents of the program must be approved and supervised by instructor in the performance medium.

MUSC 185J. Senior Recital Jazz.
Prerequisite(s): Permission by appropriate faculty committee.
Term Typically Offered: Fall, Spring
Formal recital demonstrating the performance abilities of the student in the Jazz Studies concentration. Contents of the program must be approved and supervised by instructor in the performance medium.

MUSC 190A. Trumpet: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 190B. Trumpet: Advanced -- BM.
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.
MUSC 195. Fieldwork in Music. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observation and work experience with public agencies. Field work is offered for the purpose of giving students orientation in occupational specialties. Supervision is provided by both university instructional staff and cooperating agencies. Each student is required to maintain a record of activities and assignments and to prepare periodic reports. The student must make arrangements with a faculty member for a work program prior to admittance.

Credit/No Credit

MUSC 196E. Extended Techniques for Piano. 1 Unit
Prerequisite(s): Upper Division students only, or Instructor approval.
Term Typically Offered: Spring only – odd years

Upper-division elective will survey unusual and important compositional techniques for piano, beginning with the 17th century and culminating with living composers of our time. Examples of both notation and execution techniques will be studied, demonstrated, and then applied in composition. Specific 20th and 21st century composers whose techniques will be discussed in depth may include Cowell, Ives, Cage, Crumb, Curtis-Smith, Diemer, Pärt, Pärt, Santiago, Bolcom, and Say.

MUSC 197. Music And Business. 3 Units
Term Typically Offered: Fall, Spring

Introduction to career possibilities in the area of music and business. Students will explore and develop directions of interest and opportunity through reading, discussion, lectures, and outside speakers. Individual field projects will provide the opportunity to see at close hand the workings of Sacramento area music businesses of the student’s choice.

MUSC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work. Admission requires the approval of the faculty member under whom the work is to be conducted and of the Department Chair.

Credit/No Credit

MUSC 201. Introduction to Graduate Study. 3 Units
Prerequisite(s): An undergraduate degree with music major or instructor permission.
Term Typically Offered: Fall, Spring

Systematic and historical study of the various disciplines related to music. Prepares the student to do advanced study and research. Required of all MM students in Music. Must be taken the first time scheduled after student is enrolled.

Note: Graduate Writing Intensive

MUSC 202A. Seminar in Music Education. 3 Units
Term Typically Offered: Fall, Spring

Study of current methodology in the development of reliable knowledge in the field of music education. Includes identification and formation of research problems, designing, and strategies.

MUSC 202B. Seminar in Music Education. 3 Units
Term Typically Offered: Fall, Spring

Review of current research trends in music education. Includes review of relevant literature and the definition, design, and justification of a research problem.

MUSC 206. Topics in Music History. 3 Units
Prerequisite(s): Undergraduate major in music or instructor permission.
Term Typically Offered: Fall, Spring

Detailed study of topics in music history and their relation to musical style, performance, reception, and cultural context. Designed to allow narrow focus on the historical contexts of a particular theory, repertoire, performance practice, or critical stance. May be repeated for credit with different topics.

MUSC 207. Topics in Music Analysis. 3 Units
Prerequisite(s): Undergraduate major in music or instructor permission.
Term Typically Offered: Fall, Spring

Detailed study of topics in music analysis and its relation to harmony, rhythm, style, and form. Designed to allow narrowed focus on music of a select composer or small group of composers. May be repeated for credit with different topics.

MUSC 208. Topics in Ethnomusicology. 3 Units
Prerequisite(s): Undergraduate major in music or instructor permission.
Term Typically Offered: Fall, Spring

Current practices, methodologies, and scholarly agendas in the field of ethnomusicology including global studies of traditional, classical, folk, and popular musics. Readings from interdisciplinary literature. Students respond in discussion and writing to this scholarly discourse in order to familiarize themselves with theoretical approaches current in the discipline and to practice the spoken and written conventions of the field.

MUSC 210. Composition. 2 Units
Prerequisite(s): Undergraduate composition and instructor permission.
Term Typically Offered: Fall, Spring

Advanced work in composition for students seeking the MM degree with composition option. May be taken for credit twice.

MUSC 211. Graduate Music Theory. 3 Units
Term Typically Offered: Fall, Spring

Comprehensive and intensive overview of the major disciplines of music theory with an emphasis on application of skills. Focus is mainly on tonal practice (part writing, figured bass realization, chromatic harmony, melodic construction, phrase structure, reductive analysis, forms) but also includes discussion of post-tonal music and applicable analytical techniques (extended scalar resources, dodecaphony, set-theory).

MUSC 217A. Choral Conducting Applied Music. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Graduate music majors only. May be taken for credit four times.

MUSC 217B. Instrumental Conducting Applied Music. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Graduate music majors only. May be taken for credit four times.

Note: Limited to instrumental conducting students only.
MUSC 218A. Choral Conducting Techniques. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Training in technique and repertoire at the graduate level. May be taken for credit four times.

Note: Limited to choral conducting students only.

MUSC 218B. Instrumental Conducting Techniques. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Training in technique and repertoire at the graduate level. May be taken for credit four times.

Note: Limited to instrumental conducting students only.

MUSC 219. Graduate Applied Music. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Classified graduate Music majors and graduate music credential candidates only. May be taken for credit four times.

MUSC 220. Performance Techniques. 1 Unit
Prerequisite(s): Approval by area applied music committee to enter performance option for the MM; instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Classified graduate Music majors only. Training in technique and repertoire at the graduate level. May be taken for credit four times.

MUSC 221. Graduate Applied Music for Performer's Certificate. 1 Unit
Prerequisite(s): Performance Certificate Students Only
Term Typically Offered: Fall, Spring

Individual instruction. Training in technique and repertoire at the post-baccalaureate level. May be taken for credit four times.

MUSC 222. Performance Techniques. 1 Unit
Prerequisite(s): Performance Certificate Students Only
Term Typically Offered: Fall, Spring

Individual instruction. Training in applied music performance at the post-baccalaureate level. May be taken for credit four times.

MUSC 224. Advanced Chamber Music. 1 Unit
Term Typically Offered: Fall, Spring

Study, rehearsal, and public performance of musical repertoire appropriate for the specific ensemble (e.g. orchestra, band, choir, opera, etc.).

MUSC 225. Advanced Large Performance Ensemble. 1 Unit
Term Typically Offered: Fall, Spring

Study, rehearsal, and public performance of musical repertoire appropriate for the specific ensemble (e.g. string quartet, wind quintet, etc.).

MUSC 285. Graduate Recital. 2 Units
Prerequisite(s): Approval by the student’s recital committee, consisting of student’s primary instructor in the area of concentration and two additional, qualified faculty members, preferably from the student’s area of concentration, chosen by the primary instructor in consultation with the student.
Term Typically Offered: Fall, Spring

Public recital of approximately fifty minutes of music demonstrating the student’s skill, artistry, and maturity in their degree concentration. The content and performance (MM in Conducting and Performance) of the recital, or the quality of the content (MM in Composition, Performer’s Certificate) of the recital, must be evaluated by a committee consisting of the student’s primary applied instructor and two additional, qualified faculty members, preferably from the student’s area of concentration.

MUSC 295. Fieldwork in Music. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observation and work experience. Fieldwork is offered for the purpose of giving students orientation in occupational specialties. Supervision is provided by both the instructional staff of the university and cooperating agencies. Each student is required to maintain a record of activities and assignments and to prepare periodic reports. The student must make arrangements with a faculty member for a work program prior to admittance to the course.

Credit / No Credit

MUSC 297. Comprehensive Examination. 1 Unit
Prerequisite(s): MUSC 285 and Advancement to Candidacy
Term Typically Offered: Fall, Spring

Comprehensive oral examination covering student’s major field of study.
Credit / No Credit

Credit / No Credit
MUSC 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the work is to be conducted and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work.
Credit/No Credit

MUSC 500. Culuminating Experience. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission from the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of thesis or project approved for the Master's degree. Three options are available:

BA in Music

Units required for Major: 40
Total units required for BA: 120

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School's faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

Grade "C-" or better required in all courses applied to the major.

General Requirements

The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

Performance Evaluation: Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

Soloist: Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

Ensemble: Assignment to performing ensemble(s) is to be made in consultation with the student's applied teacher and the ensemble director(s), and by audition or hearing. Students in the BM programs are required to enroll in the appropriate large ensemble course, as stipulated in the requirements for their concentration, for eight semesters. BA students are required to enroll in a MUSC 142-series course for four semesters. After completing this requirement, students are encouraged to enroll in at least one ensemble per semester, but they are not obligated to do so.

Piano: All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For BM students other than keyboard majors, completion of MUSC 14D meets this requirement. For BA students, completion of MUSC 14C meets this requirement.

Attendance/concerts-recitals: Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

Teacher Preparation: Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this catalog for admission procedures and consult the department credential advisor for details.

Marching Band: Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 9</td>
<td>Music in World Cultures 1</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10A</td>
<td>Survey of Music Literature I 1</td>
<td>3</td>
</tr>
<tr>
<td>or MUSC 10C</td>
<td>Survey of Music Literature III</td>
<td></td>
</tr>
<tr>
<td>MUSC 10B</td>
<td>Survey of Music Literature II 1</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 11A</td>
<td>Music Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 11B</td>
<td>Music Theory II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 11C</td>
<td>Music Theory III</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 14C</td>
<td>Basic Piano for Majors</td>
<td>1</td>
</tr>
<tr>
<td>Select 4 units of Applied Music (lower division)</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Additional Requirements for Concentration (17 Units)

Upper Division Performance Studies

Select 3 units from either applied study, large/small ensembles, rep classes or conducting

MUSC 142 Series (a Large Performing Ensemble) 2

Upper Division Music History/Literature or Theory

Select three of the following:

MUSC 104 Contemporary Music Theory and Musicianship
MUSC 109 Instrumentation and Arranging
MUSC 110 Research in Music History 1
MUSC 118 series (Music History)
MUSC 119 series (World Music)
MUSC 127 The American Musical Theater 1
General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
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<td>A2</td>
<td>Written Communication</td>
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<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>0</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>0</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements</td>
<td>3</td>
</tr>
<tr>
<td>D1</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements</td>
<td>3</td>
</tr>
<tr>
<td>E1</td>
<td>Area E Course</td>
<td>3</td>
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<tr>
<td>F1</td>
<td>Area F Course</td>
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<tr>
<td>Total Units</td>
<td>40-43</td>
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</tr>
</tbody>
</table>

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. A course from the MUSC 142 series must be taken 4 times for a total of four units; each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level. **Students enrolled in Applied Voice as their major instrument:** A minimum of 4 semesters of MUSC 142 in a choral ensemble (142C or 142U, placement based on audition with the Director) is required. Transfer students in Voice may receive up to 2 semesters of credit toward this requirement from another institution upon approval from the Director of Choral Activities.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (6-9 Units)</td>
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<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI)²</td>
<td>0 - 3</td>
<td></td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement³</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).
   **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Department offers students a "select from the following" option:
   - If student chooses to take MUSC 110, MUSC 127, or MUSC 129, they will meet the Writing Intensive (WI) graduation requirement.

3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Bachelor of Music (Instrumental)

Units required for Major: 71-76, including units for concentration (see below)
Total units required for BM: 120

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School’s faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.
Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

**Admission Requirements**

Admission to the Bachelor of Music degree program requires the recommendation of the student's major applied instructor, a 3.0 GPA in music courses, and approval of the applied area based on a successful audition. Admission criteria and audition instructions may be obtained from the Music Department Office.

Each area of concentration has unique course requirements. Students interested in a BM degree should discuss the details of the program with a faculty advisor in the Music Department.

Grade "C-" or better required in all courses applied to the major.

**General Requirements**

The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

**Performance Evaluation**: Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

**Soloist**: Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

**Ensemble**: As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

**Piano**: All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 14D meets this requirement.

**Attendance/concerts-recitals**: Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

**Teacher Preparation**: Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this catalog for admission procedures and consult the department credential advisor for details.

**Marching Band**: Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

### Program Requirements

#### Required Lower Division Core Courses (26 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 3</td>
<td>MIDI Sequencing and Notation</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 9</td>
<td>Music in World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10A</td>
<td>Survey of Music Literature I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10B</td>
<td>Survey of Music Literature II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10C</td>
<td>Survey of Music Literature III</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 11A</td>
<td>Music Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 11B</td>
<td>Music Theory II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 11C</td>
<td>Music Theory III</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12A</td>
<td>Musicianship I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12B</td>
<td>Musicianship II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12C</td>
<td>Musicianship III</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Required Upper Division Core Courses (15 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 104</td>
<td>Contemporary Music Theory and Musicianship</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 109</td>
<td>Instrumentation and Arranging</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 110</td>
<td>Research in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 142 series course</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MUSC 151</td>
<td>Fundamentals of Conducting</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Additional Requirements for Concentrations (30-35 Units)

Select one of the following six areas of concentration:

- **Instrumental**
  - Jazz Studies or Jazz Studies with Music Education Emphasis
  - Keyboard
  - Music Education
  - Theory/Composition
  - Voice

| Total Units | 71-76 |

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. A course from the MUSC 142 series must be taken 4 times for a total of 4 units; each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level.

### Concentration in Instrumental (30 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 14D</td>
<td>Basic Piano for Majors</td>
<td>1</td>
</tr>
<tr>
<td>Select 4 units of Instruments: Intermediate</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>Select 4 units of Instruments: Intermediate</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Select 4 units of Instruments: Advanced</td>
<td>1, 2</td>
<td></td>
</tr>
<tr>
<td>Select 4 units of Instruments: Advanced</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MUSC 142 series course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUSC 144 series course</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MUSC 154</td>
<td>Advanced Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 172 series course</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
MUSC 175  Junior Recital  1
MUSC 185  Senior Recital  2
Total Units  30

1. All BM instrumental majors, regardless of their unit load, shall be enrolled each semester in Applied Music for 2 units (until they have reached the maximum of 16 units), and in a Large Performance Ensemble until the Senior Recital is completed. Each music major is required to attend a minimum of 10 concerts and/or recitals each semester.

2. See faculty advisor.

3. Course must be repeated four times for a total of 4 units. Each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level.

4. Course must be repeated two times for a total of 2 units.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A1 - Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A2 - Written Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A3 - Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area B: Physical Universe and Its Life Forms (13 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B1 - Physical Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>B2 - Life Forms</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>B4 - Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area C: Arts and Humanities (6 Units)</strong></td>
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</tr>
<tr>
<td></td>
<td>C1 - Arts</td>
<td>0</td>
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<tr>
<td></td>
<td>C2 - Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>C1/C2 - Area C Course</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area D: The Individual and Society (9 Units)</strong></td>
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<tr>
<td></td>
<td>Area D Course</td>
<td>3</td>
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<td></td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Area E: Understanding Personal Development (3 Units)</strong></td>
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<tr>
<td></td>
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<td>3</td>
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<td></td>
<td><strong>Area P: Ethnic Studies (3 Units)</strong></td>
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<td></td>
<td>Area F Course</td>
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<tr>
<td>Total Units</td>
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</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Graduation Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>Graduation Requirements (required by CSU) (6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
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</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Graduation Requirements (required by Sacramento State) (12 Units)</strong></td>
<td></td>
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<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Proficiency Requirement 3</td>
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</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Bachelor of Music (Jazz Studies)**

Units required for Major: 71-76, including units for concentration (see below)

Total units required for BM: 120

**Program Description**

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School’s faculty, which remains committed to individual and ensemble performances as a means of enhancing the
teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

**Admission Requirements**

Admission to the Bachelor of Music degree program requires the recommendation of the student's major applied instructor, a 3.0 GPA in music courses, and approval of the applied area based upon a successful audition. Admission criteria and audition instructions may be obtained from the Music Department Office.

Each area of concentration has unique course requirements. Students interested in a BM degree should discuss the details of the program with a faculty advisor in the Music Department.

Grade "C-" or better required in all courses applied to the major.

**General Requirements**

The following are required for the Bachelor of Arts and Bachelor of Music degree programs.

**Performance Evaluation:** Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

**Soloist:** Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

**Ensemble:** As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

**Piano:** All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 140 meets this requirement.

**Attendance/concerts-recitals:** Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

**Teacher Preparation:** Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this catalog for admission procedures and consult the department credential advisor for details.

**Marching Band:** Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Lower Division Core Courses (26 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>MUSC 3</td>
<td>MIDI Sequencing and Notation</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 9</td>
<td>Music In World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10A</td>
<td>Survey of Music Literature I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10B</td>
<td>Survey of Music Literature II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10C</td>
<td>Survey of Music Literature III</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 11A</td>
<td>Music Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 11B</td>
<td>Music Theory II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 11C</td>
<td>Music Theory III</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12A</td>
<td>Musicianship I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12B</td>
<td>Musicianship II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12C</td>
<td>Musicianship III</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Required Upper Division Core Courses (15 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>MUSC 104</td>
<td>Contemporary Music Theory and Musicianship</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 109</td>
<td>Instrumentation and Arranging</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 110</td>
<td>Research in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 142</td>
<td>series course</td>
<td></td>
</tr>
<tr>
<td>MUSC 151</td>
<td>Fundamentals of Conducting</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Additional Requirements for Concentrations (30-35 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following six areas of concentration:</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Instrumental</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jazz Studies or Jazz Studies with Music Education Emphasis</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>Keyboard</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Music Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Theory/Composition</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Voice</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>71-76</td>
</tr>
</tbody>
</table>

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. A course from the MUSC 142 series must be taken 4 times for a total of 4 units; each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level

### Concentration in Jazz Studies (35 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 14D</td>
<td>Basic Piano for Majors</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 15</td>
<td>Jazz Piano Class</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 43A</td>
<td>Jazz Improvisation I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 43B</td>
<td>Jazz Improvisation II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 50</td>
<td>series course</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 108A</td>
<td>Jazz Arranging I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 108B</td>
<td>Jazz Arranging II</td>
<td>2</td>
</tr>
</tbody>
</table>
Concentration in Jazz Studies with Music Education Emphasis (36 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 140</td>
<td>Jazz Theory and Harmony</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 150 series course ¹</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>MUSC 161</td>
<td>Jazz Pedagogy</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 185J</td>
<td>Senior Recital Jazz</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

¹ Course must be repeated two times for a total of 2 units.
² Course must be repeated four times for a total of 4 units.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>43</strong></td>
</tr>
</tbody>
</table>

Bachelor of Music (Keyboard)

Units required for Major: 71-76, including units for concentration (see below)

Total units required for BM: 120
Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework;
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School’s faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University’s program.

Admission Requirements

Admission to the Bachelor of Music degree program requires the recommendation of the student’s major applied instructor, a 3.0 GPA in music courses, and approval of the applied area based upon a successful audition. Admission criteria and audition instructions may be obtained from the Music Department Office.

Each area of concentration has unique course requirements. Students interested in a BM degree should discuss the details of the program with a faculty advisor in the Music Department.

Grade “C-” or better required in all courses applied to the major.

General Requirements

The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

Performance Evaluation: Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

Soloist: Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

Ensemble: As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

Piano: All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 14D meets this requirement.

Attendance/concerts-recitals: Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

Teacher Preparation: Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this catalog for admission procedures and consult the department credential advisor for details.

Marching Band: Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 3</td>
<td>MIDI Sequencing and Notation</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 9</td>
<td>Music In World Cultures 1</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10A</td>
<td>Survey of Music Literature I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10B</td>
<td>Survey of Music Literature II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10C</td>
<td>Survey of Music Literature III</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 11A</td>
<td>Music Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 11B</td>
<td>Music Theory II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 11C</td>
<td>Music Theory III</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12A</td>
<td>Musicianship I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12B</td>
<td>Musicianship II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12C</td>
<td>Musicianship III</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 104</td>
<td>Contemporary Music Theory and Musicianship</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 109</td>
<td>Instrumentation and Arranging</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 110</td>
<td>Research in Music History 1</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 142</td>
<td>Series course 2</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 151</td>
<td>Fundamentals of Conducting</td>
<td>2</td>
</tr>
</tbody>
</table>

Additional Requirements for Concentrations (30-35 Units)

Select one of the following six areas of concentration:

- Instrumental
- Jazz Studies or Jazz Studies with Music Education Emphasis
- Keyboard
- Music Education
- Theory/Composition
- Voice

Total Units 71-76

1 Course also satisfies General Education (GE)/Graduation Requirement.
A course from the MUSC 142 series must be taken 4 times for a total of 4 units; each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level.

Concentration in Keyboard (31 units)

Select one of the following sets:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 32A</td>
<td>Piano: Intermediate</td>
<td>8</td>
</tr>
<tr>
<td>&amp; MUSC 32B</td>
<td>Piano: Intermediate - BM</td>
<td></td>
</tr>
<tr>
<td>MUSC 35A</td>
<td>Harpsichord/Organ: Intermediate</td>
<td></td>
</tr>
<tr>
<td>&amp; MUSC 35B</td>
<td>Harpsichord/Organ: Intermediate - BM</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following sets:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 132A</td>
<td>Piano: Advanced</td>
<td>8</td>
</tr>
<tr>
<td>&amp; MUSC 132B</td>
<td>Piano: Advanced - BM</td>
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</tr>
<tr>
<td>MUSC 135A</td>
<td>Harpsichord/Organ: Advanced</td>
<td></td>
</tr>
<tr>
<td>&amp; MUSC 135B</td>
<td>Harpsichord/Organ: Advanced-BM</td>
<td></td>
</tr>
<tr>
<td>MUSC 141A</td>
<td>Piano Chamber Music</td>
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</tr>
<tr>
<td>MUSC 141B</td>
<td>Piano Chamber Music</td>
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</tr>
<tr>
<td>MUSC 172 series course 2</td>
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</tr>
<tr>
<td>MUSC 173A</td>
<td>Vocal Accompanying</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 175</td>
<td>Junior Recital</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 176</td>
<td>Piano Pedagogy</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 185</td>
<td>Senior Recital</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units 31

All BM keyboard majors, regardless of their unit load, shall be enrolled each semester in Applied Music for 2 units (until they have reached the maximum of 16 units), and in a Large Performance Ensemble until the Senior Recital is completed. Each music major is required to attend a minimum of 10 concerts and/or recitals each semester.

Course must be repeated four times for a total of 4 units.

General Education Requirements

Select one of the following sets:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 176A</td>
<td>Piano Chamber Music</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 176B</td>
<td>Piano Chamber Music</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 176C</td>
<td>Piano Chamber Music</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 176D</td>
<td>Piano Chamber Music</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units 31

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Required in Major; also satisfies GE.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (6 Units)</td>
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<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
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<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
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<tr>
<td>Writing Intensive (WI)</td>
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</table>

Graduation Requirements (required by Sacramento State) (12 Units)

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>English Composition II</td>
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<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement 3</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Required in Major; also satisfies Graduation Requirement.

3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Bachelor of Music (Music Education)

Units required for Major: 71-76, including units for concentration (see below)

Total units required for BM: 120

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:
Admission Requirements

Admission to the Bachelor of Music degree program requires the recommendation of the student’s major applied instructor, a 3.0 GPA in music courses, and approval of the applied area based upon a successful audition. Admission criteria and audition instructions may be obtained from the Music Department Office.

Each area of concentration has unique course requirements. Students interested in a BM degree should discuss the details of the program with a faculty advisor in the Music Department.

Grade “C-” or better required in all courses applied to the major.

General Requirements

The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

Performance Evaluation: Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

Soloist: Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

Ensemble: As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

Piano: All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 14D meets this requirement.

Attendance/concerts-recitals: Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

Teacher Preparation: Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this catalog for admission procedures and consult the department credential advisor for details.

Marching Band: Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 3</td>
<td>MIDI Sequencing and Notation</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 9</td>
<td>Music in World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10A</td>
<td>Survey of Music Literature I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10B</td>
<td>Survey of Music Literature II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10C</td>
<td>Survey of Music Literature III</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 11A</td>
<td>Music Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 11B</td>
<td>Music Theory II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 11C</td>
<td>Music Theory III</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12A</td>
<td>Musicianship I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12B</td>
<td>Musicianship II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12C</td>
<td>Musicianship III</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 100A</td>
<td>Contemporary Music Theory and Musicianship</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 109</td>
<td>Instrumentation and Arranging</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 110</td>
<td>Research in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 142</td>
<td>series course</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 151</td>
<td>Fundamentals of Conducting</td>
<td>2</td>
</tr>
</tbody>
</table>

Select one of the following six areas of concentration:

- Instrumental
- Jazz Studies or Jazz Studies with Music Education Emphasis
- Keyboard
- Music Education
- Theory/Composition
- Voice

Total Units: 71-76

1 Course also satisfies General Education (GE)/Graduation Requirement.
Concentration in Music Education (34 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 14D</td>
<td>Basic Piano for Majors</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 40 series course</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Select 4 units of applied music: Intermediate</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Select 4 units of applied music: Advanced</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>MUSC 130</td>
<td>Pedagogy of Music Theory and Musicianship</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 142 series course</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>MUSC 153</td>
<td>Advanced Choral Conducting</td>
<td>2</td>
</tr>
<tr>
<td>or MUSC 154</td>
<td>Advanced Instrumental Conducting</td>
<td></td>
</tr>
<tr>
<td>MUSC 161</td>
<td>Jazz Pedagogy</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 162</td>
<td>Foundations of Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 164</td>
<td>Music in General Education</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 178</td>
<td>Vocal Literature and Materials (Grades 4-12)</td>
<td></td>
</tr>
<tr>
<td>MUSC 179</td>
<td>Instrumental Literature and Materials</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 185E</td>
<td>Senior Recital Music Education</td>
<td>1</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>43</td>
</tr>
</tbody>
</table>

1 Course must be repeated four times for a total of 4 units. Each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level. Students enrolled in Applied Voice as their major instrument: A minimum of 8 semesters of MUSC 142 in a choral ensemble (MUSC 142C or 142U, placement based on audition with the Director) is required. Transfer students in Voice may receive up to 2 semesters of credit toward this requirement from another institution upon approval from the Director of Choral Activities.

Bachelor of Music (Theory/Composition)

Units required for Major: 71-76, including units for concentration (see below)
Total units required for BM: 120

Program Description
The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School’s faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University’s program.

Admission Requirements
Admission to the Bachelor of Music degree program requires the recommendation of the student’s major applied instructor, a 3.0 GPA in music courses, and approval of the applied area based upon a successful audition. Admission criteria and audition instructions may be obtained from the Music Department Office.

Each area of concentration has unique course requirements. Students interested in a BM degree should discuss the details of the program with a faculty advisor in the Music Department.

Grade "C-" or better required in all courses applied to the major.

General Requirements
The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

Performance Evaluation: Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

Soloist: Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

Ensemble: As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

Piano: All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 14D meets this requirement.

Attendance/concerts-recitals: Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

Teacher Preparation: Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this catalog for admission procedures and consult the department credential advisor for details.

Marching Band: Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 3</td>
<td>MIDI Sequencing and Notation</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 9</td>
<td>Music In World Cultures</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 11A</td>
<td>Music Theory I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 11B</td>
<td>Music Theory II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 11C</td>
<td>Music Theory III</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12A</td>
<td>Musicianship I</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12B</td>
<td>Musicianship II</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 12C</td>
<td>Musicianship III</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 10A</td>
<td>Survey of Music Literature I</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10B</td>
<td>Survey of Music Literature II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 10C</td>
<td>Survey of Music Literature III</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 104</td>
<td>Contemporary Music Theory and Musicianship</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 109</td>
<td>Instrumentation and Arranging</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 110</td>
<td>Research in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 142</td>
<td>Fundamentals of Conducting</td>
<td>4</td>
</tr>
</tbody>
</table>

Additional Requirements for Concentrations (30-35 Units)

Select one of the following six areas of concentration: 30-35

- Instrumental
- Jazz Studies or Jazz Studies with Music Education Emphasis
- Keyboard
- Music Education
- Theory/Composition
- Voice

1 Course also satisfies General Education (GE)/Graduation Requirement.
The fundamental purpose of the Sacramento State music curriculum is threefold:

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies GE.

3. Course must be repeated four times for a total of 8 units.

4. Course must be repeated four times for a total of 4 units. Each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level.

5. Course must be repeated two times for a total of 4 units.
1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School's faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

### Admission Requirements

Admission to the Bachelor of Music degree program requires the recommendation of the student's major applied instructor, a 3.0 GPA in music courses, and approval of the applied area based upon a successful audition. Admission criteria and audition instructions may be obtained from the Music Department Office.

Each area of concentration has unique course requirements. Students interested in a BM degree should discuss the details of the program with a faculty advisor in the Music Department.

Grade "C-" or better required in all courses applied to the major.

### General Requirements

The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

**Performance Evaluation:** Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

**Soloist:** Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

**Ensemble:** As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

**Piano:** All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 14D meets this requirement.

**Attendance/concerts-recitals:** Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

**Teacher Preparation:** Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this catalog for admission procedures and consult the department credential advisor for details.

**Marching Band:** Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.
Concentration in Voice (33 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 14D</td>
<td>Basic Piano for Majors</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 37 series</td>
<td>3</td>
<td>Diction For Singers</td>
</tr>
<tr>
<td>MUSC 136A</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MUSC 137 series</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUSC 142 series</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MUSC 153</td>
<td>Advanced Choral Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 172 series</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MUSC 175</td>
<td>Junior Recital</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 185</td>
<td>Senior Recital</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units: 33

1. Course must be repeated four times for a total of 8 units.
2. Course must be repeated eight times for a total of 8 units.
3. A minimum of 8 semesters of MUSC 142 in a choral ensemble (MUSC 142C or 142U, placement based on audition with the Director) is required for degree completion. Transfer students in Voice may receive up to 2 semesters of credit toward this requirement from another institution upon approval from the Director of Choral Activities.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td>A1 - Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A2 - Written Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A3 - Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (13 Units)</td>
<td>B1 - Physical Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>B2 - Life Forms</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>B1, B2 or B5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B4 - Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements</td>
<td>3</td>
</tr>
<tr>
<td>Area C: Arts and Humanities (6 Units)</td>
<td>C1 - Arts</td>
<td>0</td>
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<tr>
<td></td>
<td>C2 - Humanities</td>
<td>3</td>
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<tr>
<td></td>
<td>C1/C2 - Area C Course</td>
<td>0</td>
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<tr>
<td></td>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements</td>
<td>3</td>
</tr>
<tr>
<td>Area D: The Individual and Society (9 Units)</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Area D Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Area D Course - Take upper-division course to complete Area & upper division requirements.
Area E: Understanding Personal Development (3 Units)
Area E Course
Area F: Ethnic Studies (3 Units)
Area F Course

Total Units: 43

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).
2. Required in Major; also satisfies GE.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (6 Units)</td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
<td>0</td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Master of Music (Composition)

Total Units required for the MM: 30, chosen in consultation with a School of Music graduate advisor

Program Description

The graduate program leading to the Master of Music degree is designed to provide opportunities for a variety of advanced studies in music. The objective of the program is to produce a graduate student skilled in research, able in organizational and writing skills, and imaginative in developing new approaches and concepts: a student who, with a
broad knowledge of the history and literature of music, is able to use this knowledge with effective musicality as a performer or conductor.

The MM may be earned with either an academic or a performance emphasis. The program will effectively prepare students for continuation into doctoral study. Students may focus their studies in one of three areas: Conducting, Composition, Performance.

**Admission Requirements**

Applicants to the graduate program in Music must meet the following requirements:

- a baccalaureate degree with a music major;
- a minimum 3.0 GPA in the last 60 units; and
- successful audition or composition portfolio review (see the School of Music website (http://www.csus.edu/music/) for audition information).

Fully classified graduate status is granted after successful completion of nine units of graduate work. The student must file for a change in status, using a form available from the Music Department's Graduate Coordinator.

**Admission Procedures**

Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies (http://www.csus.edu/gradstudies/):

- an application for admission;
- one set of official transcripts from all colleges and universities attended (other than Sacramento State); and
- two letters of reference.

For more admissions information and application deadlines please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

After receipt of all items listed above, a decision regarding admission will be emailed to the applicant.

**Minimum Units and Grade Requirement for the Degree**

Units required for the MM: 30, chosen in consultation with a School of Music graduate advisor

Minimum Cumulative GPA: 3.0. Majors must complete each required graded course with a grade "C-" or better and must pass MUSC 297.

**Optional Support Field**

From 3 to 5 units in fields other than Music may apply toward the degree with approval of the School of Music graduate committee. Students should have at least 10 upper division units in this field as preparation. Normally the supporting field units are on the graduate level. Supporting fields currently approved for music majors are Education, Humanities and Religious Studies, Modern Languages, and Theatre Arts. In the case of Music Education, courses which are part of the credential requirements may not be included.

**Advancement to Candidacy**

Each fully classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the student has:

- completed approximately 15 units of graduate study, including MUSC 201 and two other 200-level courses, with a minimum of 3.0 GPA;
- received approval from supervising faculty to enter courses leading to MUSC 500, Culminating Experience (see Graduate Studies Handbook for details);
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. Instructions are found in Part II of the Graduate Studies Handbook.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 201</td>
<td>Introduction to Graduate Study</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 206</td>
<td>Topics in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 211</td>
<td>Graduate Music Theory</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 285</td>
<td>Graduate Recital</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 500</td>
<td>Culminating Experience</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 297</td>
<td>Comprehensive Examination</td>
<td>1</td>
</tr>
</tbody>
</table>

**Additional Requirements for Concentrations (15 Units)**

Select one of the following concentrations:

- Conducting
- Composition
- Performance

**Total Units** 30

1 Prerequisite: Undergraduate major in music or instructor permission.
2 Seminar addresses a different topic each semester. With the approval of the student’s advisor, the course may be repeated for credit with a different topic. The Director of the School of Music ensures that varied topics are offered for students repeating the course for credit.

**Concentration in Composition (15 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 210</td>
<td>Composition</td>
<td>2</td>
</tr>
<tr>
<td>Select 6 units of academic electives 2</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>MUSC 242</td>
<td>Advanced Large Performance Ensemble</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Units** 15

1 Course must be repeated four times for a total of 8 units.
2 Electives must be approved by a School of Music Graduate Advisor.

**Master of Music (Conducting)**

Total units required for the MM: 30, chosen in consultation with a School of Music graduate advisor

**Program Description**

The graduate program leading to the Master of Music degree is designed to provide opportunities for a variety of advanced studies in music. The objective of the program is to produce a graduate student skilled in research, able in organizational and writing skills, and imaginative
in developing new approaches and concepts: a student who, with a broad knowledge of the history and literature of music, is able to use this knowledge with effective musicality as a performer or conductor.

The MM may be earned with either an academic or a performance emphasis. The program will effectively prepare students for continuation into doctoral study. Students may focus their studies in one of three areas: Conducting, Composition, Performance.

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- a minimum 3.0 GPA in the last 60 units; and
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Fully classified graduate status is granted after successful completion of nine units of graduate work. The student must file for a change in status, using a form available from the Music Department’s Graduate Coordinator.

Admission Procedures
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- one set of official transcripts from all colleges and universities attended (other than Sacramento State); and
- two letters of reference.

For more admissions information and application deadlines please visit the Office of Graduate Studies website. Instructions are found in Part II of the Graduate Studies Handbook.

After receipt of all items listed above, a decision regarding admission will be emailed to the applicant.

Minimum Units and Grade Requirement for the Degree
Units required for the MM: 30, chosen in consultation with a School of Music graduate advisor.

Minimum Cumulative GPA: 3.0. Majors must complete each required graded course with a grade "C-" or better and must pass MUSC 297.

Optional Support Field
From 3 to 5 units in fields other than Music may apply toward the degree with approval of the School of Music graduate committee. Students should have at least 10 upper division units in this field as preparation. Normally the supporting field units are on the graduate level. Supporting fields currently approved for music majors are Education, Humanities and Religious Studies, Modern Languages, and Theatre Arts. In the case of Music Education, courses which are part of the credential requirements may not be included.

Advancement to Candidacy
Each fully classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the student has:

- completed approximately 15 units of graduate study, including MUSC 201 and two other 200-level courses, with a minimum of 3.0 GPA;
- received approval from supervising faculty to enter courses leading to MUSC 500, Culminating Experience (see Graduate Studies Handbook for details);
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

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<td>MUSC 201</td>
<td>Introduction to Graduate Study 1</td>
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</tr>
<tr>
<td>MUSC 206</td>
<td>Topics in Music History 2</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 211</td>
<td>Graduate Music Theory</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 285</td>
<td>Graduate Recital</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 500</td>
<td>Culminating Experience</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 297</td>
<td>Comprehensive Examination</td>
<td>1</td>
</tr>
</tbody>
</table>

Additional Requirements for Concentrations (15 Units)
Select one of the following concentrations:

- Conducting
- Composition
- Performance

Total Units 30

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 217</td>
<td>Graduate Applied Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 218</td>
<td>Conducting Techniques</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 242</td>
<td>Advanced Large Performance Ensemble</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units 15

Concentration in Conducting (15 units)

MUSC 217 Series graduate applied music 4

MUSC 218 Series conducting techniques 4

Select 6 units of academic electives 1

MUSC 242 advanced large performance ensemble 1

Master of Music (Performance)

Total units required for the MM: 30, chosen in consultation with a School of Music graduate advisor.
Program Description
The graduate program leading to the Master of Music degree is designed to provide opportunities for a variety of advanced studies in music. The objective of the program is to produce a graduate student skilled in research, able in organizational and writing skills, and imaginative in developing new approaches and concepts: a student who, with a broad knowledge of the history and literature of music, is able to use this knowledge with effective musicality as a performer or conductor.

The MM may be earned with either an academic or a performance emphasis. The program will effectively prepare students for continuation into doctoral study. Students may focus their studies in one of three areas: Conducting, Composition, Performance.

Admission Requirements
Applicants to the graduate program in Music must meet the following requirements:

- a baccalaureate degree with a music major;
- a minimum 3.0 GPA in the last 60 units; and
- successful audition or composition portfolio review (see the School of Music website [http://www.csus.edu/music/] for audition information).

Fully classified graduate status is granted after successful completion of nine units of graduate work. The student must file for a change in status, using a form available from the Music Department’s Graduate Coordinator.

Admission Procedures
Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies (http://www.csus.edu/gradstudies/):

- an application for admission;
- one set of official transcripts from all colleges and universities attended (other than Sacramento State); and
- two letters of reference.

For more admissions information and application deadlines please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

After receipt of all items listed above, a decision regarding admission will be emailed to the applicant.

Minimum Units and Grade Requirement for the Degree
Units required for the MM: 30, chosen in consultation with a School of Music graduate advisor.

Minimum Cumulative GPA: 3.0. Majors must complete each required graded course with a grade of "C" or better and must pass MUSC 297.

Optional Support Field
From 3 to 5 units in fields other than Music may apply toward the degree with approval of the School of Music graduate committee. Students should have at least 10 upper division units in this field as preparation. Normally the supporting field units are on the graduate level. Supporting fields currently approved for music majors are Education, Humanities and Religious Studies, Modern Languages, and Theatre Arts. In the case of Music Education, courses which are part of the credential requirements may not be included.

Advancement to Candidacy
Each fully classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the student has:

- completed approximately 15 units of graduate study, including MUSC 201 and two other 200-level courses, with a minimum of 3.0 GPA;
- received approval from supervising faculty to enter courses leading to MUSC 500, Culminating Experience (see Graduate Studies Handbook for details);
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. Instructions are found in Part II of the Graduate Studies Handbook.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 201</td>
<td>Introduction to Graduate Study</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 206</td>
<td>Topics in Music History</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 211</td>
<td>Graduate Music Theory</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 285</td>
<td>Graduate Recital</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 500</td>
<td>Culminating Experience</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 297</td>
<td>Comprehensive Examination</td>
<td>1</td>
</tr>
</tbody>
</table>

Additional Requirements for Concentrations (15 Units)
Select one of the following concentrations:

<table>
<thead>
<tr>
<th>Conducting</th>
<th>Composition</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

Total Units 30

1 Undergraduate major in Music or instructor permission. May be repeated with different topics.
2 Seminar addresses a different topic each semester. With the approval of the student’s advisor, the course may be repeated for credit with a different topic. The Director of the School of Music ensures that varied topics are offered for students repeating the course for credit.

Concentration in Performance (15 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 219</td>
<td>Graduate Applied Music</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 220</td>
<td>Performance Techniques</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 242</td>
<td>Advanced Large Performance Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>Select 3 units of academic electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 3 units of performance electives</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 15
Course must be repeated four times for a total of 4 units.

Electives must be approved by a School of Music Graduate Advisor.

Minor in Music

Units required for the Minor: 20, including 9 units upper division.

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School’s faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring and minoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University’s program.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Theory (6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select two or three courses from the following:</td>
<td>6</td>
</tr>
<tr>
<td>MUSC 3</td>
<td>MIDI Sequencing and Notation</td>
<td></td>
</tr>
<tr>
<td>MUSC 4</td>
<td>Elements Of Music</td>
<td></td>
</tr>
<tr>
<td>MUSC 11A</td>
<td>Music Theory I</td>
<td></td>
</tr>
<tr>
<td>MUSC 11B</td>
<td>Music Theory II</td>
<td></td>
</tr>
<tr>
<td>MUSC 11C</td>
<td>Music Theory III</td>
<td></td>
</tr>
<tr>
<td>MUSC 12A</td>
<td>Musicianship I</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>History/Literature (9 Units)</strong></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Select three units from each group:</td>
<td></td>
</tr>
<tr>
<td>Group 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSC 9</td>
<td>Music In World Cultures</td>
<td></td>
</tr>
<tr>
<td>MUSC 119A</td>
<td>World Music: Asia</td>
<td></td>
</tr>
<tr>
<td>MUSC 119B</td>
<td>World Music: Africa</td>
<td></td>
</tr>
<tr>
<td>MUSC 119C</td>
<td>World Music: Latin America</td>
<td></td>
</tr>
<tr>
<td>Group 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSC 10A</td>
<td>Survey of Music Literature I</td>
<td></td>
</tr>
<tr>
<td>MUSC 10B</td>
<td>Survey of Music Literature II</td>
<td></td>
</tr>
<tr>
<td>MUSC 10C</td>
<td>Survey of Music Literature III</td>
<td></td>
</tr>
<tr>
<td>MUSC 18</td>
<td>Music Appreciation</td>
<td></td>
</tr>
<tr>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSC 118B</td>
<td>American Popular Music: Jazz History</td>
<td></td>
</tr>
<tr>
<td>MUSC 118C</td>
<td>History of Rock Music</td>
<td></td>
</tr>
<tr>
<td>MUSC 127</td>
<td>The American Musical Theater</td>
<td></td>
</tr>
<tr>
<td>MUSC 129</td>
<td>American Society and Its Music</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Beginning Musical Instruction (2 Units)</strong></td>
<td></td>
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<tr>
<td></td>
<td>Select two units from the following:</td>
<td>2</td>
</tr>
</tbody>
</table>

Applied Music for 2 units with departmental and area approval

Select one of the following:

- MUSC 40 series course

Large Ensemble Experience (3 Units)

Select three units from the following:

- Any MUSC 142 - Music Ensemble: Large Performance Groups
- MUSC 100A/100B Concert Attendance
- MUSC 143J Instrumental Jazz Ensemble
- MUSC 145 Pep Band

Total Units: 20

Students seeking supplementary authorization for single subject, standard secondary, and special secondary teaching credentials must register for one unit each of instrumental and vocal instruction in the beginning musical instruction section. Qualified students may audition for applied musical instruction as a substitution in this area.

Note: The last 3 units in performance must be taken at Sacramento State.

The Performer's Certificate

Units required for the certificate: 22

Program Description

The Performer’s Certificate is a post-baccalaureate program designed for highly qualified instrumentalists, vocalists, and conductors. Exceptionally talented and dedicated performers admitted through a competitive audition will receive instruction at an advanced level and will be expected to make substantive contribution to the School of Music through participation in a Large Ensemble (LPE) or equivalent.

Admission Requirements

1. Baccalaureate Degree
2. Audition demonstrating exceptional skill in the student’s area of specialization (conducting, instrumental, or voice performance)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Courses (22 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following course pairs:</td>
<td>8</td>
</tr>
<tr>
<td>MUSC 217A</td>
<td>Choral Conducting Applied Music</td>
<td></td>
</tr>
<tr>
<td>&amp; MUSC 218A</td>
<td>Choral Conducting Techniques</td>
<td></td>
</tr>
<tr>
<td>MUSC 217B</td>
<td>Instrumental Conducting Applied Music</td>
<td></td>
</tr>
<tr>
<td>&amp; MUSC 218B</td>
<td>Instrumental Conducting Techniques</td>
<td></td>
</tr>
<tr>
<td>MUSC 219</td>
<td>Graduate Applied Music</td>
<td></td>
</tr>
<tr>
<td>&amp; MUSC 220</td>
<td>Performance Techniques</td>
<td></td>
</tr>
<tr>
<td>MUSC 142 series course</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>
MUSC 144 series course ² 2
MUSC 285 Graduate Recital 2
MUSC 285 Graduate Recital (second recital) 2
MUSC 295 Fieldwork in Music 1
MUSC 299 Special Problems 2
Select 3 units of Graduate music electives 1, 2 3

Total Units 22

1 May include serving as assistant to Director.
2 May be taken during Summer/January sessions.

Philosophy

College of Arts and Letters

Program Description
The subject of philosophy encompasses such fundamental issues as the scope and limits of human knowledge, the ultimate constituents of reality, the sources of value and obligation, and the nature of logic and correct reasoning. Philosophy utilizes the findings of many other academic disciplines and, in its method, stresses clear, rigorous, impartial and systematic thought. The application of philosophical ideas to practical problems is central to the subject.

Sacramento State offers the Bachelor of Arts degree with a major in philosophy as well as a philosophy minor. Philosophy is an excellent vehicle for refining one's skills in critical reasoning and rational decision-making, making it a useful major for a wide variety of career goals. For instance, philosophy is good preparation for the study and practice of law. Philosophy majors who plan a career in teaching at the college or university level must commit themselves to a program of graduate study upon completion of the BA.

Degree Programs
BA in Philosophy (General Concentration) (p. 308)
BA in Philosophy (Ethics, Politics, and Law) (p. 307)
BA in Philosophy (Science, Reason, and Values) (p. 305)
BA in Philosophy (Honors) (p. 310)
Minor in Philosophy (p. 311)

Special Features
- The Philosophy Department professors are active scholars who have presented many written papers and lectures at professional conferences. They are also active in the community, giving public lectures both on and off campus. Many participate in our Future Philosophers program by giving presentations to local high schools.
- The Philosophy Department houses The Center for Practical and Professional Ethics, which is dedicated to fostering better public understanding of contemporary ethical issues from a philosophical perspective.
- Flexible major and minor requirements allow students to choose concentrations and a range of electives to fit their specific interests and career objectives. The minor is an excellent complement to a variety of majors. It is also possible to complete the minor in such a way that almost all classes satisfy GE requirements.
- Students are encouraged to take part in the Philosophy Club. Its regular meetings are designed to promote group discussions about topics of philosophical interest. Club speakers have included students, philosophy faculty, professors from other departments on campus, and professors from other universities.
- The Philosophy Department offers a Philosophy Major Honors Program for qualified students. This program provides motivated students with an opportunity to expand their philosophy education, develop their writing, pursue philosophical research, prepare for graduate studies or law school, or enhance their career preparations. Students interested in pursuing graduate study in Philosophy are especially encouraged to participate in this program.

Career Possibilities
Law · Medicine · Public Health · Government · Politics · Ministry · Publishing · Social Work · Education · Journalism · Business

Contact Information
Russell DiSilvestro, Department Chair
Amy Trimmer, Administrative Support Coordinator
Mendocino Hall 3000
(916) 278-6424
Department of Philosophy Website (http://www.csus.edu/phil/)

Faculty
AYALA-LÓPEZ, SARAY
BARRANTES, MANUEL
BELLO, CHRISTINA M.
CAREY, BRANDON
CHOE-SMITH, CHONG
DENMAN, DAVID
DISILVESTRO, RUSSELL
LAM, DEREK
MCCORMICK, MATTHEW S.
MERRIAM, GARRET
PARK, JOHN
SWAN, KYLE S.

PHIL 2. Ethics. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of the concepts of morality, obligation, human rights and the good life. Competing theories about the foundations of morality will be investigated.
PHIL 4. Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Study of the basic skills of good reasoning needed for the intelligent and responsible conduct of life. Topics include: argument structure and identification, validity and strength of arguments, common fallacies of reasoning, use and abuse of language in reasoning, principles of fair play in argumentation.

PHIL 6. Introduction to Philosophy: Knowledge, World and Self. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Representative selection of philosophical problems will be explored in areas such as knowledge, reality, religion, science, politics, art and morals.

PHIL 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Students have the opportunity to interact with fellow classmates and the seminar leader to build a community of academic support and personal support.

PHIL 26. History of Philosophy. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the history of philosophy, emphasizing such themes as the foundations of knowledge, the nature of reality, the basis of a good life and a just society, the existence of God, and the nature of self, and tracing the development of these themes from antiquity to the modern period.

PHIL 27. History of Early Modern Philosophy. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines the major developments in Western philosophy after the Middle Ages, with emphasis on the period from Descartes to Kant. Attention will be paid to the general historical and cultural setting within which the philosophical theories developed.

PHIL 56. Research Integrity. 1 Unit
Term Typically Offered: Fall, Spring

Basic regulatory and ethical requirements for doing research. Topics covered include protection of human subjects, data management, authorship, peer review, mentoring, animal experimentation, conflict of interest, and collaborative research.
Credit/No Credit

PHIL 60. Deductive Logic I. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Introduction to deductive logic. Topics include: basic concepts of deductive logic; techniques of formal proof in propositional and predicate logic.

PHIL 61. Inductive Logic I. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Introduction to inductive logic and the problem of decision under uncertainty. Topics include: the nature of inductive rationality, philosophical theories of induction and probability, cognitive biases and common errors in inductive reasoning, and philosophical problems in defining risk, rational agency, and the expected value of an action.

PHIL 89. Philosophical Methods. 2 Units
Prerequisite(s): Student must be a declared Philosophy Major.
Term Typically Offered: Fall, Spring

An introduction to philosophical methods and basic concepts to prepare students for coursework in the major. The survey of topics will emphasize developing skills in reading philosophical texts, writing philosophical analyses and engaging in philosophical discussions.

PHIL 101. Ethics and Social Issues. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring, Summer

Moral controversies that divide society today, such as abortion, the death penalty, affirmative action, sexism, war and peace. Emphasis is on identifying the relevant values and moral principles underlying competing views and subjecting them to rational assessment.

PHIL 102. Professional and Public Service Ethics. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Prepares students planning careers in professional practice or public service to identify, understand, and resolve ethical problems. Includes examinations of (i) ethical theory, rights and duties, virtue ethics, utilitarian ethics, social contract theory, and role morality; (ii) the philosophical underpinnings of professional codes of conduct, regulations, and norms of professional and public service practices; (iii) moral reasoning and argumentation; (iv) the relation between ethical judgement and action; (v) the relation between professional practice, public service, and democratic principles.

PHIL 103. Business and Computer Ethics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Analytical treatment of controversial moral issues which emerge in the business world, e.g., affirmative action, corporate responsibility, the global economy, industry and environmental damage, social effects of advertising, the computer threat to personal privacy, ownership of computer programs. Discussion will focus on basic moral principles and concepts relevant to these issues.
PHIL 104. Bioethics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Ethical dilemmas faced by professionals and patients in the field of medicine, e.g., patient self-determination and informed consent, discrimination in health care, euthanasia, abortion, surrogate motherhood, genetic modification, and rights to health care. Emphasis is on the well-reasoned application of general moral principles to practical medical decisions.

PHIL 105. Science and Human Values. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

Examination of the values implicit in a scientific culture and the problems that arise as a commitment to the development of scientific knowledge and technology. These problems include: distinguishing good scientific practice from bad; the intrinsic value of scientific knowledge independent of its benefits in application; the proper and improper applications of scientific knowledge.

PHIL 106. Philosophy of Medicine. 3 Units
Term Typically Offered: Fall, Spring

Examination of philosophical issues arising in medical theory and practice. Topics include: concepts and theories of health, disease, disability, and death; causal inference, extrapolation, and statistical inference in medical research; ethical concepts and theories relevant to therapeutic treatment and research; animal experimentation; evidence-based medicine and randomized clinical trials; objectivity and bias; expertise and clinical judgment; public health policy and health inequalities.

PHIL 112. History Of Ethics. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Investigation of the main approaches to ethics in Western moral philosophy. Emphasis on Plato, Aristotle, Hume, Kant and Mill.

PHIL 115. Philosophy In Literature. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only — even years

Study of selected works of fiction which focus on philosophically controversial questions, e.g., basic moral dilemmas, the meaning of life, alienation, nihilism, the existence of God.

PHIL 117. Existentialism. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only

Study of the problem of the existing individual, or inner self – most especially the problem of choice in the context of radical freedom and finitude. Particular attention will be paid to the philosophical writings of Kierkegaard, Nietzsche, Heidegger and Sartre, through some major literary works of these figures and others (Camus, Dostoevsky) will also be considered.

PHIL 122. Political Philosophy. 3 Units
Term Typically Offered: Fall, Spring

A philosophical examination of the individual, the community, and rights; the conflict between individual rights and the common good; various conceptions of justice, equality, liberty and the public good; and the relationship of politics to ethics, economics, law; war and peace.

PHIL 123. Philosophy and Feminism. 3 Units
Term Typically Offered: Spring only — even years

Study of feminist perspectives on important philosophical questions. Examples of the questions treated are: mind-body dualism; reason and emotion; the fact/value distinction; the nature of the public and private realms; equal rights; and whether knowledge is intrinsically “gendered.” Different feminist perspectives will be considered and compared with traditional approaches to these questions.

PHIL 125. Philosophy Of Science. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer

Study of the philosophical problems that arise in the sciences: the nature of scientific reasoning, the limits and styles of explanation, identifying pseudoscience, values in science, unity and diversity of the sciences, and science’s impact on our world view.

PHIL 127. History Of Ancient Philosophy. 3 Units
Prerequisite(s): PHIL 89.
Term Typically Offered: Fall, Spring

Examination of the origins of Western philosophy, with emphasis on the works of the Pre-Socratics, Plato, and Aristotle.

PHIL 128. History of Modern Philosophy. 3 Units
Prerequisite(s): PHIL 89.
Term Typically Offered: Fall, Spring

Examination of the major developments in Western philosophy after the Middle Ages with emphasis on the period from Descartes to Kant.
PHIL 131. Philosophy Of Religion. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Summer only

Introduction to philosophical theology, the philosophical study of religious assertions, arguments, and beliefs: the existence and nature of God; the rationality of religious belief; the relation of faith to reason; the problem of evil; immortality and resurrection; the possibility of miracles; the meaning of religious language. Includes both traditional and contemporary approaches.

PHIL 136. Philosophy Of Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Inquiry into the nature of art, beauty and criticism, with critical consideration of representative theories.

PHIL 145A. Chinese Philosophy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Spring only

Survey of the major philosophical traditions of China and Japan, focusing on concepts of nature, man, society, freedom and knowledge. Special attention will be given to Confucianism, Taoism, Buddhism, and recent philosophical movements. Taught alternate semesters with PHIL 145B.

PHIL 145B. Philosophies Of India. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall only

Survey of the major schools of Indian philosophical development. The emphasis will be on the Hindu and Buddhist traditions, with consideration given to competing notions of the self, consciousness, the origin of human suffering, and the possibility of transcendence.
Note: Taught alternate semesters with PHIL 145A.

PHIL 153. Philosophy Of Mind. 3 Units
Prerequisite(s): 3 units in philosophy or instructor permission.
Term Typically Offered: Spring only

Rival theories of the nature of the mind and mental activity, including dualism, materialism, functionalism. Difficulties in achieving a theoretical understanding of familiar psychological concepts such as belief, sensation, emotion, intention.

PHIL 154. Philosophy Of Language. 3 Units
Term Typically Offered: Fall only

Study of philosophical issues concerning language: theories of the nature of linguistic meaning, in particular those involving the concepts of sense, reference, truth conditions, intention, convention, speech act, and force. Topics include the relation between meaning and reference to objects, and between meaning and mental processes. Emphasis on contemporary views, including views on the promise of a theory of language to shed light on fundamental philosophical problems in metaphysics and the philosophy of mind.

PHIL 155. Philosophy Of Law. 3 Units
Term Typically Offered: Spring only

Theories of the nature of law, e.g., natural law, legal positivism, legal realism. Selected controversies in contemporary law will also be studied, such as the justification of punishment, the legislation of morality, judicial activism vs. judicial restraint.

PHIL 156. Philosophy Of the Social Sciences. 3 Units
Term Typically Offered: Fall, Spring

An examination of concepts and problems arising in the philosophical study of the social sciences, including issues pertaining to ontology, epistemology, methodology, values & objectivity, scientific models, and explanation. Some questions explored are: What are social phenomena and social categories? What makes social science different from natural science? How do values influence the practice of social science? What kinds of mathematical and computational models are used in social science? How does social science explain social phenomena?

PHIL 160. Deductive Logic II. 3 Units
Prerequisite(s): CSC 28 or PHIL 60 or instructor permission.
Term Typically Offered: Spring only

Further study of deductive logic. Topics include: principles of inference for quantified predicate logic; connectives; quantifiers; relations; sets; modality; properties of formal logical systems, e.g. consistency and completeness; and interpretations of deductive systems in mathematics, science, and ordinary language.

PHIL 176. Twentieth Century Anglo-American Philosophy. 3 Units
Term Typically Offered: Summer only

Rise of the analytic tradition in contemporary Anglo-American philosophy represents a turn toward common sense, science, language, logic and rigor. Readings will cover the philosophical movements of common sense, logical atomism, logical positivism, ordinary language philosophy and more recent analytical philosophy.

PHIL 180. Knowledge and Understanding. 3 Units
Prerequisite(s): PHIL 60 or 61; PHIL 127 and 128 or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature of knowledge and understanding, as well as related concepts such as explanation, justification, and belief. Representative topics include: the Gettier problem, skepticism, the factivity of understanding, naturalized epistemology, pragmatic encroachment, and the value of knowledge. Emphasis is on contemporary formulations.
PHIL 181. Metaphysics. 3 Units
Prerequisite(s): PHIL 60 or 61; PHIL 127 and 128 or instructor permission.
Term Typically Offered: Fall, Spring

Examines arguments concerning the nature of reality. Representative topics include: substance, space, time, God, free will, determinism, identity, universals. Emphasis is on contemporary formulations.

PHIL 182. Ethical Theory. 3 Units
Prerequisite(s): PHIL 60 or 61; PHIL 127 and 128 or instructor permission.
Term Typically Offered: Fall, Spring

Examines major topics in normative ethics and meta ethics. Representative topics in normative ethics include principles of goodness, virtue, and right action as featured in utilitarianism, virtue theory, Kantianism, or rights-based theories. Representative topics in meta ethics include the semantics of moral terms, the epistemology of moral belief, and the metaphysics of moral properties.

PHIL 183. Rationality. 3 Units
Prerequisite(s): PHIL 60 or 61, PHIL 127, PHIL 128
Term Typically Offered: Fall, Spring

Examines the nature of rationality, its value, structure, limits, purpose, origins, operations, and proper use. Topics include the nature of deductive rationality, inductive rationality, bounded rationality, irrationality, reasoning under ignorance and uncertainty, probabilistic decision-making, expected value theory, utility theory, and game theory.

PHIL 189. Senior Seminar in Philosophy. 1 Unit
Prerequisite(s): Philosophy majors (any concentration), 21 upper-division units in Philosophy, and graduating semester; or instructor permission.
Corequisite(s): Philosophy major (any concentration) and graduating semester, or instructor permission.
Term Typically Offered: Fall, Spring

A required capstone experience in the philosophy major. The course involves: completion of a senior essay under direction of a faculty member; preparation for knowledge and skills examination; submission of written critiques for three public events in philosophy; completion of departmental assessment questionnaire.

PHIL 190. Selected Philosophers. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

An examination of the works of one or more important philosophers in different philosophical areas such as ethics, political philosophy, metaphysics, logic and epistemology.
Note: This course can be repeated for credit once if the second iteration focuses on a different philosopher than the first.

PHIL 192B. Topics in Bioethics. 3 Units
Prerequisite(s): 6 units of Philosophy or instructor permission
Term Typically Offered: Fall, Spring

Advanced in-depth study of an ethical dilemma faced by professionals and patients in the field of medicine, such as patient self-determination and informed consent, discrimination in health care, euthanasia, abortion, surrogate motherhood, genetic modification, or rights of health care.

PHIL 192E. Topics in Epistemology. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: the nature of inquiry, knowledge, explanation, understanding, rationality, judgment, and decision.
Note: This course can be repeated for credit once if the second iteration focuses on a different specific topic within Epistemology.

PHIL 192F. Topics in Ethics. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: animal rights, abortion, euthanasia and assisted suicide, poverty, race, gender, same-sex marriage, war and humanitarian intervention, environmental ethics, ethics of science or technology, and other advanced topics in bioethics.
Note: This course can be repeated once for credit if the second iteration focuses on a different specific topic within Ethics.

PHIL 192L. Topics in Philosophy Language. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Advanced topics in the philosophy of language. Topics may include: sense and reference, meaning and force, intentions vs. conventions, conditions for sameness of sense, conditions for successful reference, propositional content, indexical and demonstrative reference, and the semantics of propositional attitude and perceptual reports, linguistic pragmatics.

PHIL 192M. Topics in Philosophy of Mind. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics in Philosophy of Mind. Topics may include: Artificial Intelligence; Qualia; functionalism; philosophy of neuroscience; property dualism; eliminative materialism; or specific theories of consciousness. Emphasis is on contemporary formulations.

PHIL 192O. Topics in Contemporary Metaphysics. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission
Term Typically Offered: Fall, Spring

Contemporary topics in metaphysics. Topics may include: Ontology; realism and anti-realism; universals; individuals; substance; identity through time and change; kinds and degrees of necessity; physicalism; moral realism; realism regarding social entities. Emphasis is on contemporary formulations.

PHIL 192P. Topics in Social and Political Philosophy. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: specific theories such as anarchism, libertarianism, and contractualism; feminist theories; critical race theory; philosophy of education; and other concepts such as authority, justice, rights, equality, and freedom.
Note: This course can be repeated for credit once if the second iteration focuses on a different specific topic within Social and Political Philosophy.
PHIL 192R. Topics in Philosophy of Religion. 3 Units
Prerequisite(s): 6 units of Philosophy or instructor permission.
Topics may include: The problem of evil, atheism, modal arguments for God's existence, design arguments for God's existence, reformed epistemology, recent work in natural theology, divine hiddenness, skeptical theism, or Molinism. Emphasis is on contemporary formulations.

PHIL 192S. Topics in Philosophy of Science. 3 Units
Prerequisite(s): 6 units of Philosophy or instructor permission.
Term Typically Offered: Fall, Spring
Topics include: Issues in the epistemology and ontology of science; special problems in the philosophy of mathematics, physics, chemistry, cognitive science, and biology; naturalistic and non naturalistic approaches to understanding scientific inquiry.
Note: This course can be repeated for credit once if the second iteration focuses on a different specific topic within the Philosophy of Science.

PHIL 192T. Topics in Philosophy of Social Science. 3 Units
Prerequisite(s): 6 units of Philosophy or instructor permission.
Term Typically Offered: Fall, Spring
Topics include: the ontology of social kinds, social construction, individualism vs. structuralism, philosophy of economics, explanations of social injustice, critical theory, methodology of social sciences, and categorization and measurement in the social sciences.
Note: This course can be repeated for credit once if the second iteration focuses on a different specific topic within the Philosophy of Social Science.

PHIL 195. Philosophy Internship. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Supervised work experience in an approved office or organization where significant philosophical issues are raised. The student must write regular reports on these issues. Supervision is provided by the faculty instructor and a managing official in the work situation. Open to majors only.
Credit/No Credit

PHIL 196. Experimental Offerings in Philosophy. 3 Units
Term Typically Offered: Fall, Spring
Experimental offerings will be scheduled as needed.

PHIL 197. Honors Thesis. 1 Unit
Prerequisite(s): Admission into Philosophy Department Honors Concentration.
Term Typically Offered: Fall, Spring
Capstone seminar for Honors Program students in Philosophy major. Student will propose, research, write, and present an honors thesis; student will also provide comments and criticism of other honors theses.

PHIL 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Special projects calling for independent philosophical investigation under the supervision of an individual faculty member.
Note: Requires prior approval of the faculty member under whom work is to be conducted.
Credit/No Credit

PHIL 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Special projects calling for independent philosophical investigation under the supervision of an individual faculty member.
Note: Requires graduate status and prior approval of the faculty member under whom work is to be conducted.
Credit/No Credit

BA in Philosophy (Science, Reason and Values)
Units required for Major: 42
Total units required for BA: 120

Program Description
The concentration in Science, Reason and Values is designed for students who are interested in the philosophical, rational and moral foundations of science and its applications. This concentration provides an excellent double major opportunity for science students interested in broadening and deepening their understanding of the normative elements of their chosen field. It is also a good choice for philosophy students who are interested in graduate study in the philosophy of science.

The concentration focuses on providing students with a deep understanding of the nature of scientific rationality. Topics include scientific explanation, the nature of scientific evidence, the process of confirming and revising our theories and beliefs, the problem of decision under conditions of uncertainty, and the scientific study of social phenomena. The philosophy of science also explores traditional philosophical questions as they arise in the context of scientific inquiry. Some of these are: Do we really know that the theoretical entities of science exist? What is the difference between science and pseudo-science? Do different sciences give us fundamentally different ways of understanding the world? Is science converging on truth or will it always undergo revolutionary changes that reject widely accepted theories of the past? Does scientific inquiry have intrinsic value or are there questions that scientists should not ask?

Note: Philosophy majors must fulfill the GE Writing Intensive "supervenient requirement" with courses in the major, only.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHIL 89</td>
<td>Philosophical Methods (Philosophical Methods)</td>
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<tr>
<td>PHIL 60</td>
<td>Deductive Logic</td>
<td>1</td>
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LOWER DIVISION COURSES (5 Units)

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PHIL 112</td>
<td>History Of Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 127</td>
<td>History of Ancient Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 128</td>
<td>History of Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 180</td>
<td>Knowledge and Understanding</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 181</td>
<td>Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 182</td>
<td>Ethical Theory (Ethical Theory)</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 189</td>
<td>Senior Seminar in Philosophy</td>
<td>1</td>
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SCIENCE, REASON, AND VALUES CONCENTRATION (18 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>SCIENCE, REASON, AND VALUES CORE ELECTIVES</td>
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Select 3 of the following 4 courses.

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>PHIL 105</td>
<td>Science and Human Values</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 125</td>
<td>Philosophy Of Science</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 156</td>
<td>Philosophy of the Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 183</td>
<td>Rationality</td>
<td>3</td>
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</tbody>
</table>

Additional Electives

Select three courses from the Elective List for this concentration not taken to satisfy the above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 183</td>
<td>Philosophy Internship</td>
<td>3</td>
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</table>

**Total Units** 9

**Course also satisfies General Education (GE)/Graduation Requirement.**

**Elective List**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>PHIL 61</td>
<td>Inductive Logic I</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 104</td>
<td>Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 105</td>
<td>Science and Human Values</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 106</td>
<td>Philosophy of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 125</td>
<td>Philosophy Of Science</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 153</td>
<td>Philosophy Of Mind</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 154</td>
<td>Philosophy Of Language</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 156</td>
<td>Philosophy of the Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 160</td>
<td>Deductive Logic II</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 183</td>
<td>Rationality</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 190</td>
<td>Selected Philosophers</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192B</td>
<td>Topics in Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192E</td>
<td>Topics in Epistemology</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192F</td>
<td>Topics in Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192L</td>
<td>Topics in Philosophy Language</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192M</td>
<td>Topics in Philosophy of Mind</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192O</td>
<td>Topics in Contemporary Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192P</td>
<td>Topics in Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192R</td>
<td>Topics in Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192S</td>
<td>Topics in Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192T</td>
<td>Topics in Philosophy of Social Science</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 195</td>
<td>Philosophy Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units** 42

**Course also satisfies General Education (GE)/Graduation Requirement.**

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (6-9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
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<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
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</table>

Area B: Physical Universe and Its Life Forms (13 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
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<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
<td></td>
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<tr>
<td>B4 - Math Concepts</td>
<td>3</td>
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</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
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</table>

Area C: Arts and Humanities (6-12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>C1 - Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td>3</td>
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<tr>
<td>C1/C2 - Area C Course</td>
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Area D: The Individual and Society (6-9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>Area D Course</td>
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<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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Area E: Understanding Personal Development (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>Area E Course</td>
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</tbody>
</table>

Area F: Ethnic Studies (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Area F Course</td>
<td>3</td>
<td></td>
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</tbody>
</table>

**Total Units** 37-49

**Course also satisfies General Education (GE)/Graduation Requirement.**

**Graduation Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (6-9 Units)</td>
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<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
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<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
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</table>

**Graduation Requirements (required by Sacramento State) (12 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
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</table>

**Note:**

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Department offers students a "select from the following" option:
   - If student chooses to take PHIL 4, they will meet Area C2.
   - If student chooses to take PHIL 2, PHIL 6, or PHIL 26, they will meet Area C2.

3. Required in Major; also satisfies GE.

4. Department offers students a "select from the following" option:
   - If student chooses to take PHIL 102, PHIL 112, PHIL 115, PHIL 117, PHIL 122, PHIL 131, PHIL 136, PHIL 145A, or PHIL 145B, they will meet upper division Area C.
   - If student chooses to take PHIL 101, PHIL 103, PHIL 104, or PHIL 105, they will meet upper division Area D.
Race and Ethnicity in American Society (RE) 3
Foreign Language Proficiency Requirement 6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Department offers students a "select from the following" option:
   - If student chooses to take PHIL 101, PHIL 105, PHIL 112, PHIL 115, PHIL 117, PHIL 145A, or PHIL 145B, they will meet the Writing Intensive (WI) graduation requirement.

3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

BA in Philosophy (Ethics, Politics, and Law)

Units required for Major: 42
Total units required for BA: 120

Program Description

The concentration in Ethics, Politics, and Law is designed as a preparation for the study of law as well as for advanced professional study in applied ethics. It is also intended to give undergraduates a foundation in rational decision-making, embodying the conviction that such an intellectual capacity has broad application.

The concentration gives students an understanding of the theories behind moral and legal principles as well as training in the process of decision-making applying those principles. Students will be called upon to make decisions in particular cases; state the facts impartially; convey their decisions and their reasoning cogently and persuasively; and justify their decisions by showing how they are both a reasonable consequence of those principles and not overturned by overriding conflicting principles. There will be a particular emphasis on clear and effective writing.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 89</td>
<td>Philosophical Methods (Philosophical Methods)</td>
<td>2</td>
</tr>
<tr>
<td>PHIL 60</td>
<td>Deductive Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 112</td>
<td>History Of Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 127</td>
<td>History of Ancient Philosophy</td>
<td>3</td>
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<tr>
<td>PHIL 128</td>
<td>History of Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 180</td>
<td>Knowledge and Understanding</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 181</td>
<td>Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 182</td>
<td>Ethical Theory (Ethical Theory)</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 189</td>
<td>Senior Seminar in Philosophy</td>
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<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>PHIL 122</td>
<td>Political Philosophy</td>
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<tr>
<td>PHIL 155</td>
<td>Philosophy Of Law</td>
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</tr>
<tr>
<td>Select 190 or 192 series seminar from the Elective List for this concentration.</td>
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</table>

ADDITIONAL ELECTIVES

Select three courses from the Elective List for this concentration not taken to satisfy the above. 9

Total Units 42

1. Course also satisfies General Education (GE)/Graduation Requirement.

Note: Philosophy majors must fulfill the GE Writing Intensive "supervenient requirement" with courses in the major, only.

Elective List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHIL 61</td>
<td>Inductive Logic I</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 101</td>
<td>Ethics and Social Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 102</td>
<td>Professional and Public Service Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 103</td>
<td>Business and Computer Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 104</td>
<td>Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 105</td>
<td>Science and Human Values</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 106</td>
<td>Philosophy of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 156</td>
<td>Philosophy of the Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 183</td>
<td>Rationality</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 190</td>
<td>Selected Philosophers</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192B</td>
<td>Topics in Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192E</td>
<td>Topics in Epistemology</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192F</td>
<td>Topics in Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192L</td>
<td>Topics in Philosophy Language</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192M</td>
<td>Topics in Philosophy of Mind</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192O</td>
<td>Topics in Contemporary Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192R</td>
<td>Topics in Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 192S</td>
<td>Topics in Philosophy of Science</td>
<td>3</td>
</tr>
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<td>PHIL 192T</td>
<td>Topics in Philosophy of Social Science</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 195</td>
<td>Philosophy Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Course also satisfies General Education (GE)/Graduation Requirement.

Note: If taken for less than 3 units, must be repeated until 3 units are achieved.

General Education Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
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<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area B: Physical Universe and Its Life Forms (13 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Required in Major; also satisfies Graduation Requirement.

If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

### BA in Philosophy (General Concentration)

Units required for Major: 42
Total units required for BA: 120

**Program Description**

This general concentration forms an excellent basis for a broad liberal arts education and has been the chosen mode of preparation for successful careers in such diverse areas as university teaching, government, education, medicine, consulting, publishing, business, and finance.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 60</td>
<td>Deductive Logic (1)</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 89</td>
<td>Philosophical Methods</td>
<td>2</td>
</tr>
<tr>
<td>PHIL 112</td>
<td>History Of Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 127</td>
<td>History of Ancient Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 128</td>
<td>History of Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 180</td>
<td>Knowledge and Understanding</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 181</td>
<td>Metaphysics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 182</td>
<td>Ethical Theory</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 189</td>
<td>Senior Seminar in Philosophy</td>
<td>1</td>
</tr>
</tbody>
</table>

General Education Concentration (18 Units)

Select three Philosophy courses from the Elective List for this concentration.

Select three Philosophy courses from the Elective List for this concentration numbered 150 or above not taken to satisfy the above requirements.

**Total Units**

42

Note: Philosophy majors must fulfill the GE Writing Intensive "supervenient requirement" with courses in the major, only.

Course also satisfies General Education (GE)/Graduation Requirement.

### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement (3 Units)</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1. Department offers students a "select from the following" option:
- If student chooses to take PHIL 2, PHIL 6, or PHIL 26, they will meet Area C2.
- If student chooses to take PHIL 4, they will meet Area A3.

2. Required in Major; also satisfies GE.

3. Department offers students a "select from the following" option:
- If student chooses to take PHIL 101, PHIL 103, PHIL 104, or PHIL 105, they will meet upper division Area D.

4. Required in Major; also satisfies GE.

Note: Philosophy majors must fulfill the GE Writing Intensive "supervenient requirement" with courses in the major, only.

1. Course also satisfies General Education (GE)/Graduation Requirement.
Elective List

Code | Title | Units
---|---|---
PHIL 61 | Inductive Logic | 3
PHIL 101 | Ethics and Social Issues | 3
PHIL 102 | Professional and Public Service Ethics | 3
PHIL 103 | Business and Computer Ethics | 3
PHIL 104 | Bioethics | 3
PHIL 105 | Science and Human Values | 3
PHIL 106 | Philosophy of Medicine | 3
PHIL 115 | Philosophy In Literature | 3
PHIL 117 | Existentialism | 3
PHIL 122 | Political Philosophy | 3
PHIL 123 | Philosophy and Feminism | 3
PHIL 125 | Philosophy Of Science | 3
PHIL 131 | Philosophy Of Religion | 3
PHIL 136 | Philosophy Of Art | 3
PHIL 145A | Chinese Philosophy | 3
PHIL 145B | Philosophies Of India | 3
PHIL 153 | Philosophy Of Mind | 3
PHIL 154 | Philosophy Of Language | 3
PHIL 155 | Philosophy Of Law | 3
PHIL 156 | Philosophy of the Social Sciences | 3
PHIL 160 | Deductive Logic II | 3
PHIL 176 | Twentieth Century Anglo-American Philosophy | 3
PHIL 182 | Ethical Theory | 3
PHIL 183 | Rationality | 3
PHIL 190 | Selected Philosophers | 3
PHIL 192B | Topics in Bioethics | 3
PHIL 192E | Topics in Epistemology | 3
PHIL 192F | Topics in Ethics | 3
PHIL 192L | Topics in Philosophy Language | 3
PHIL 192M | Topics in Philosophy of Mind | 3
PHIL 192O | Topics in Contemporary Metaphysics | 3
PHIL 192P | Topics in Social and Political Philosophy | 3
PHIL 192R | Topics in Philosophy of Religion | 3
PHIL 192S | Topics in Philosophy of Science | 3
PHIL 192T | Topics in Philosophy of Social Science | 3
PHIL 195 | Philosophy Internship | 3
PHIL 196 | Experimental Offerings in Philosophy | 3
PHIL 199 | Special Problems | 3

2 See the Elective List below for Department approved electives for this concentration.

3 See the Elective list below for Department approved electives numbered 150 and above.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>0 - 3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>0 - 3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>D1</td>
<td>The Individual and Society (6-9 Units)</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D3</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>E1</td>
<td>Understanding Personal Development (3 Units)</td>
<td>3</td>
</tr>
<tr>
<td>E2</td>
<td>Area E Course</td>
<td>3</td>
</tr>
<tr>
<td>F1</td>
<td>Ethnic Studies (3 Units)</td>
<td>3</td>
</tr>
<tr>
<td>F2</td>
<td>Area F Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 37-49

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Department offers students a “select from the following” option:
   • If student chooses to take PHIL 4, they will meet Area A3.
   • If student chooses to take PHIL 2, PHIL 6, or PHIL 26, they will meet Area C2.

3 Department offers students a “select from the following” option:
   • If student chooses to take PHIL 102, PHIL 112, PHIL 115, PHIL 117, PHIL 122, PHIL 131, PHIL 136, PHIL 145A, or PHIL 145B, they will meet upper division Area C.
   • If student chooses to take PHIL 101, PHIL 103, PHIL 104, or PHIL 105, they will meet upper division Area D.

1 Course also satisfies General Education (GE)/Graduation Requirement.

2 If taken for less than 3 units, must be repeated until 3 units are achieved.
Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (6 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (W)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Proficiency Requirement</td>
<td>6</td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

   Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Required in Major; also satisfies Graduation Requirement.

3. Department offers students a "select from the following" option:
   - if student chooses to take PHIL 101, PHIL 105, PHIL 112, PHIL 115, PHIL 117, PHIL 145A, or PHIL 145B, they will meet the Writing Intensive (W) graduation requirement.
   - If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

BA in Philosophy (Honors)

Total units required in addition to the required major units: 46 units

Program Description

Students who maintain at least a 3.7 GPA in Philosophy may elect the Honors concentration. The Honors concentration must be combined with one or more of the non-honors concentrations: the General Major, the concentration in Ethics, Politics, and Law, or the concentration in Science, Reason, and Values. Upon admission to the Honors concentration, students will produce a course plan approved by the Department Honors Committee.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentrations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following concentrations:</td>
<td></td>
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<tr>
<td></td>
<td>General Major Concentration</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ethics, Politics, and Law Concentration</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Science, Reason, and Values Concentration</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seminar (3 Units)</td>
<td></td>
</tr>
</tbody>
</table>

Select one 190 or 192 series seminar from the Elective List below not taken to satisfy the non-Honors concentration.

Elective List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 190</td>
<td>Selected Philosophers (or 192 Series course from Elective List below)</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 197</td>
<td>Honors Thesis</td>
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</tr>
</tbody>
</table>

Total Units | 46 |

See list below for Department approved electives. Some courses listed may be requirements in the student's primary concentration.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Area A: Basic Subjects (6-9 Units)</td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
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<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Area B: Physical Universe and Its Life Forms (13 Units)</td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
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<td>Life Forms</td>
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<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Area C: Arts and Humanities (6-12 Units)</td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>0</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
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<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Area D: The Individual and Society (6-9 Units)</td>
<td></td>
</tr>
<tr>
<td>D1</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D3</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Area E: Understanding Personal Development (3 Units)</td>
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</tr>
<tr>
<td>E1</td>
<td>Area E Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Area F: Ethnic Studies (3 Units)</td>
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</tr>
</tbody>
</table>
Minor in Philosophy

Units required for Minor: 18

Program Description

The subject of philosophy encompasses such fundamental issues as the scope and limits of human knowledge, the ultimate constituents of reality, the sources of value and obligation, and the nature of logic and correct reasoning. Philosophy utilizes the findings of many other academic disciplines and, in its method, stresses clear, rigorous, impartial and systematic thought. The application of philosophical ideas to practical problems is central to the subject.

Note: Students who minor in Philosophy are free to plan a sequence of courses suited to their individual needs and interests. However, for a given major, the Department offers certain courses that have particular relevance. Contact Department advisors for course recommendations.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL</td>
<td>Introduction to Philosophy: Knowledge, World and Self</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>First Year Seminar: Becoming an Educated Person</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>History of Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Research Integrity</td>
<td>1</td>
</tr>
<tr>
<td>PHIL</td>
<td>Deductive Logic I</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Inductive Logic I</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Ethics and Social Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Professional and Public Service Ethics</td>
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<tr>
<td>PHIL</td>
<td>Business and Computer Ethics</td>
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<tr>
<td>PHIL</td>
<td>Bioethics</td>
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<tr>
<td>PHIL</td>
<td>Science and Human Values</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Philosophy of Medicine</td>
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<tr>
<td>PHIL</td>
<td>History Of Ethics</td>
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</tr>
<tr>
<td>PHIL</td>
<td>Philosophy In Literature</td>
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</tr>
<tr>
<td>PHIL</td>
<td>Existentialism</td>
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</tr>
<tr>
<td>PHIL</td>
<td>Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Philosophy and Feminism</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Philosophy Of Science</td>
<td>3</td>
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<tr>
<td>PHIL</td>
<td>History of Ancient Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>History of Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Philosophy Of Religion</td>
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</tr>
<tr>
<td>PHIL</td>
<td>Philosophy Of Art</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Chinese Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Philosophies Of India</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Philosophy Of Mind</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Philosophy Of Language</td>
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Elective List

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Theatre and Dance

College of Arts and Letters

Program Description

The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

Degree Programs

BA in Dance (p. 320)
BA in Theatre (p. 322)
Minor in Dance (p. 323)
Minor in Musical Theatre (p. 324)
Minor in Theatre (p. 324)

Theatre

Majors in the Theatre program receive in-depth training in acting, voice, movement, audition technique, design, history, literature, criticism, multicultural theatre, musical theatre, puppetry, and film studies.

Accreditation

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Arts in Theatre is accredited by the National Association of Schools of Theatre.

Notice to Students: Professional Licensure and Certification

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features

• Academic offerings include an excellent program of performance opportunities. Each year we offer four to six faculty-directed productions and a varied selection of additional productions including student-directed one-acts, recruitment shows, and community outreach performances. Students are also offered production assignments as stage managers, designers and technicians, all of which enhance the range of theatrical knowledge and experience.
• Included are African American and Chicano/Latino Theatre productions that make this program unique in the State University System.
• In addition to the performance and technical components, Sacramento State’s Theatre program provides organizations that encompass social, academic and professional opportunities, both on campus and in the community.
• The Theatre program participates annually in the Kennedy Center American College Theatre Festival (KCACTF).

Dance

Majors in the Dance program receive training in dance technique, performance, production, choreography, theory, dance history, and dance education.

The comprehensive Dance program starts with the basic principles of dance technique and refines them through choreographic and theoretic processes, culminating in the creation of full-scale concert productions. Students in the program are involved at every level of the creative process.

Special Features

• Dance majors have the opportunity to participate as members of several dance companies and organizations. Company members are involved in all aspects of producing and presenting dance, from creating and performing choreography to designing and implementing the production and promotional aspects of the concerts.
• Dance majors are given the opportunity to work with professional dance artists. Each year, at least one regional professional dance artist is in residence, and the program invites nationally acclaimed guest artists to teach master classes and choreograph.
• The Dance program participates annually in the American College Dance Association (ACDA) conference and the International Association of Blacks in Dance (IABD) conference.

Career Possibilities

Actor · Choreographer · Dancer · Director · Scenographer · Lighting Designer · Scenic Designer · Puppeteer · Theatre Manager · Critic · Announcer/Narrator · Sound/Light Technician · Scenic Artist · Propmaster · Educator (Instructor/Teacher/Professor) · Stage and Production Manager

Contact Information

Lorelei Bayne, Department Chair
Michelle Felten, Department Vice-Chair
Carol Wang, Academic Support Coordinator II
Shasta Hall 104
(916) 278-6368
Department of Theatre & Dance Website (https://www.csus.edu/college/arts-letters/theatre-dance/)
Faculty
BAYNE, LORELEI
BROWN, BERNARD
BRUNSVOLD-MERCEDES, MEGAN
FELTEN, MICHELLE
FLICKINGER, PHILIP
FORBES-ERICKSON, AMY-ROSE
WILSON, MELINDA D.

DNCE 1A. Jazz Dance Level IA.
Term Typically Offered: Fall, Spring
2 Units
Theory and practice of basic beginning jazz techniques.
Note: May be repeated for up to 4 units of credit.

DNCE 1B. Jazz Dance Level IB.
Term Typically Offered: Fall, Spring
2 Units
Continued theory and practice of beginning jazz techniques.
Note: May be repeated for up to 4 units of credit.

DNCE 1C. Jazz Dance Level IC.
Term Typically Offered: Fall, Spring
2 Units
Further theory and practice of beginning jazz techniques.
Note: May be repeated for up to 4 units of credit.

DNCE 2A. Contemporary Dance Level IA.
Term Typically Offered: Fall, Spring
2 Units
Introduction to the history and techniques of the contemporary dance and modern dance tradition through basic dance principles and aesthetics including the introduction to contemporary movement to develop and improve strength, flexibility, balance, coordination and creative expression.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 2B. Contemporary Dance Level IB.
Term Typically Offered: Fall, Spring
2 Units
Continues the introduction of the history and techniques of contemporary dance and the modern dance tradition through deepened study of basic dance principles and aesthetics including the continued practice of contemporary movement to continue the development and improvement of strength, flexibility, balance, coordination and creative expression.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 2C. Contemporary Dance Level IC.
Term Typically Offered: Fall, Spring
2 Units
Further introduction to the history and techniques of the contemporary dance and modern dance tradition through further study of basic contemporary dance principles and aesthetics including the further practice of contemporary movement for the deepened development and improvement of strength, flexibility, balance, coordination and creative expression.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 3A. Ballet Level IA.
Term Typically Offered: Fall, Spring
2 Units
Introduction to the history and development of traditional ballet techniques. Students will study ballet principles and aesthetics and continue to learn basic ballet movement, vocabulary, and skills.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 3B. Ballet Level IB.
Term Typically Offered: Fall, Spring
2 Units
This course provides continued introduction to the history and development of traditional ballet techniques. Students will study ballet principles and aesthetics and continue to learn basic ballet movement, vocabulary, and skills.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 3C. Ballet Level IC.
Term Typically Offered: Fall, Spring
2 Units
This course provides further introduction to the history and development of traditional ballet techniques. Students will expand upon their earlier study of ballet principles and aesthetics and continue to learn basic ballet movement, vocabulary, and skills.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 4A. Tap Dance Level IA.
Term Typically Offered: Fall, Spring
2 Units
Introduction to fundamental tap dance skills including basic steps, history and vocabulary, and style development.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirement, all students welcome.

DNCE 4B. Tap Dance Level IB.
Term Typically Offered: Fall, Spring
2 Units
Continued introduction to fundamental tap dance skills including a deepened study of basic steps, history and vocabulary, and continued style development.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.
DNCE 4C.  Tap Dance Level IC.  
Term Typically Offered: Fall, Spring  
Further introduction to fundamental tap dance skills including an expanded study of basic steps, history and vocabulary, and further style development.  
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 5A.  Mexican Folklorico Level IA.  
Term Typically Offered: Fall, Spring  
Introduction to dances typically and traditionally performed by Mexican and Latin Americans exploring the interrelationship of dance culture to historical events, holidays, and people throughout the Americas and with opportunities to learn folk dances representative of specific regions of Mexico and Latin America.  
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 5B.  Mexican Folklorico Level IB.  
Term Typically Offered: Fall, Spring  
Continued introduction to dances typically and traditionally performed by Mexican and Latin Americans with deepened exploration of the interrelationship of dance culture to historical events, holidays, and people throughout the Americas and with continued study of folk dances representative of specific regions of Mexico and Latin America.  
Note: May be repeated for up to 4 units of credit. Satisfies degree requirement, all students welcome.

DNCE 5C.  Mexican Folklorico Dance Level IC.  
Term Typically Offered: Fall, Spring  
Further introduction to dances typically and traditionally performed by Mexican and Latin Americans with expanded exploration of the interrelationship of dance culture to historical events, holidays, and people throughout the Americas and with further study of folk dances representative of specific regions of Mexico and Latin America.  
Note: May be repeated for up to 4 units of credit. Satisfies degree requirement, all students welcome.

DNCE 6A.  Hip Hop Level IA.  
Term Typically Offered: Fall, Spring  
Introduction to the fundamentals of Hip Hop and Urban dance skills, including basic steps, history, and vocabulary.  
Note: May be repeated for up to 4 units of credit. Does not satisfy degree requirement, all students welcome.

DNCE 6B.  Hip Hop Level IB.  
Term Typically Offered: Fall, Spring  
Continues the introduction of the fundamentals of Hip Hop and Urban dance skills, with a deepened study of basic steps, history, and vocabulary.  
Note: May be repeated for up to 4 units of credit, does not satisfy degree requirement, all students are welcome.

DNCE 6C.  Hip Hop Level IC.  
Term Typically Offered: Fall, Spring  
Further introduction of the fundamentals of Hip Hop and Urban dance skills, with an expanded study of basic steps, history, and vocabulary.  
Note: May be repeated for up to 4 units of credit, does not satisfy degree requirement, all students are welcome.

DNCE 11A.  Jazz Dance Level IIA.  
Term Typically Offered: Fall, Spring  
Theory and practice of current jazz techniques including continued study of movement vocabulary with an emphasis on the different jazz styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.  
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 11B.  Jazz Dance Level IIB.  
Term Typically Offered: Fall, Spring  
Continued theory and practice of current jazz techniques including the continued study of movement vocabulary with an emphasis on the different jazz styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.  
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during the first week of classes, all students welcome.

DNCE 11C.  Jazz Dance Level IIC.  
Term Typically Offered: Fall, Spring  
Further expanded theory and practice of current jazz techniques including the deepened study of movement vocabulary with an emphasis on the different jazz styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.  
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during the first week of classes, all students welcome.

DNCE 12A.  Contemporary Dance Level IIA.  
Term Typically Offered: Fall, Spring  
Examination of theories of the contemporary dance and modern dance tradition that develops proficiency in performing intermediate level contemporary dance techniques from an intellectual and kinesthetic understanding. Instructor with dance faculty representatives will audition students during first week of class for proper placement.  
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 12B.  Contemporary Dance Level IIB.  
Term Typically Offered: Fall, Spring  
Continued examination of theories of the contemporary dance and modern dance tradition that continues the proficiency in performing intermediate level contemporary dance techniques with a deepened intellectual and kinesthetic understanding. Instructor with dance faculty representatives will audition students during first week of class for proper placement.  
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.
### DNCE 12C. Contemporary Dance Level IIC.
**Term Typically Offered:** Fall, Spring

Further examination of theories of the contemporary dance and modern dance tradition that further expand the proficiency in performing intermediate level contemporary dance techniques from a deeper intellectual and kinesthetic understanding. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

**Note:** May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

### DNCE 13A. Ballet Level IIA.
**Term Typically Offered:** Fall, Spring

Understand and demonstrate proficiency of Ballet movement and vocabulary including different styles while learning the importance of proper anatomical alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

**Note:** May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

### DNCE 13B. Ballet Level IIB.
**Term Typically Offered:** Fall, Spring

Continued understanding and deepened demonstration of proficiency of Ballet movement and vocabulary including different styles while learning the importance of proper anatomical alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

**Note:** May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

### DNCE 13C. Ballet Level IIC.
**Term Typically Offered:** Fall, Spring

Further understanding and expanded demonstration of proficiency of Ballet aesthetics through Ballet movement and vocabulary including different styles while learning the importance of proper anatomical alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

**Note:** May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

### DNCE 14A. Tap Dance Level IIA.
**Term Typically Offered:** Fall, Spring

Development and refinement of intermediate tap skills and vocabulary through the study of historical and current tap styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

**Note:** May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

### DNCE 14B. Tap Dance Level IIB.
**Term Typically Offered:** Fall, Spring

Continued development and refinement of intermediate tap skills and vocabulary through the deepened study of historical and current tap styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

**Note:** May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

### DNCE 14C. Tap Dance Level IIC.
**Term Typically Offered:** Fall, Spring

Further development and refinement of intermediate tap skills and vocabulary through the expanded study of historical and current tap styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

**Note:** May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

### DNCE 21. First Year Seminar: Becoming an Educated Person.
**General Education Area/Graduation Requirement:** Understanding Personal Development (E)

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

### DNCE 22. Music for Dance.
**Prerequisite(s):** DNCE 1A or DNCE 1B or DNCE 1C or DNCE 2A or DNCE 2B or DNCE 2C or instructor permission.

**Term Typically Offered:** Fall only

Experiential course exploring the musical elements utilized by the dancer, choreographer, and teacher of dance including a survey of music history and vocabulary; rhythms and theory; musical and dance phrasing; and dance performance musicality. This course fulfills requirements for the Dance Major and Dance Minor, non-dance major or minor students welcome.

### DNCE 96A. Hip Hop Level IIA.
**Term Typically Offered:** Fall, Spring

Theory and practice of Hip Hop and Urban dance skills, including continued study of steps/movement, history, and vocabulary with an emphasis on multiple styles. May be counted for Dance Major with advisor approval, all students are welcome. Instructor permission through course audition required.

**Note:** May be repeated for up to 4 units of credit

### DNCE 111A. Jazz Dance Level IIIA.

**Term Typically Offered:** Fall, Spring

Advanced training in the theory and practice of jazz techniques. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

**Note:** May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.
DNCE 111B. Jazz Dance Level III B.
Term Typically Offered: Fall, Spring

2 Units

Continued training at the advanced level in the theory and practice of Jazz Dance techniques. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

DNCE 111C. Jazz Dance Level III C.
Term Typically Offered: Fall, Spring

Further advanced training at a deepened level for the theory and practice of jazz techniques. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 112A. Contemporary Dance Level III A.
Term Typically Offered: Fall, Spring

2 Units

Advanced training in the theory and practice of Contemporary Dance techniques and Modern Dance Traditions. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 112B. Contemporary Dance Level III B.
Term Typically Offered: Fall, Spring

2 Units

Continued training at the advanced level in the theory and practice of Contemporary Dance techniques and Modern Dance Traditions. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 112C. Contemporary Dance Level III C.
Term Typically Offered: Fall, Spring

Further advanced training at a deepened level for the theory and practice of Contemporary Dance techniques and Modern Dance Traditions. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 113A. Ballet Level III A.
Term Typically Offered: Fall, Spring

Advanced training in the theory and practice of Ballet including proper alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 113B. Ballet Level III B.
Term Typically Offered: Fall, Spring

2 Units

Continued training at the advanced level in the theory and practice of Ballet including proper alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 113C. Ballet Level III C.
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Further refinement within the proficiency of performing Ballet techniques while expanded intellectual and kinesthetic understanding of different Ballet styles which will be attained through the further emphasis of anatomy and the expanded building of the bodily strength and endurance through barre and center work.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 118. Dance Improvisation.
2 Units

Prerequisite(s): DNCE 1A or DNCE 1B or DNCE 1C or DNCE 2A or DNCE 2B or DNCE 2C or instructor permission.
Term Typically Offered: Spring only

Exploration of the creation of movement through improvisation. Students will simultaneously explore and create, while spontaneously performing inner-directed movement without intellectual censorship.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 120. Dance Composition I.
2 Units

Prerequisite(s): DNCE 118 or instructor approval
Term Typically Offered: Fall only

An exploration of the principle elements and processes utilized in the choreographic process.

Note: Satisfies degree requirements, all students welcome

DNCE 122. Dance Composition II.
2 Units

Prerequisite(s): DNCE 120 or Instructor permission.
Term Typically Offered: Fall, Spring

An in-depth exploration of the concepts, approaches, and processes used to further develop a stylistic approach to Dance Composition.

Note: Satisfies degree requirements, all students welcome.

DNCE 130. Appreciation and History of Dance.
3 Units

General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey in the appreciation and history of dance and the relationship of dance to the fine and liberal arts in Western Civilization. Emphasis upon the history of ballet; American modes of expression: modern and jazz forms.

Note: Non-activity.
DNCE 131. Dance Cultures Of America. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring
Survey course in the appreciation and understanding of dance cultures in America. The relationship of dance to the identity and expression of different cultural groups in the U.S. will be examined. Jazz, modern, and ballet from a multicultural perspective will be the focus of the class.
Note: Non-activity.

DNCE 132. African-Caribbean Dance. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring
Introduction to the rich dance cultures of the Caribbean. Students will learn the different dances of Haiti, Cuba, Jamaica and Trinidad as they relate to their function in secular and religious culture, including the study of the Dunham Dance Technique.
Note: May be repeated for up to 6 units of credit.

DNCE 142. Dance Science and Somatics. 3 Units
Prerequisite(s): Upper division standing, or instructor permission.
Term Typically Offered: Fall, Spring
The study of skeletal structure, joint and muscle function, and the mechanics of movement geared specifically for dancers and movement practitioners. Incorporated into the course will be the study of embodied awareness practices - Somatics. The structural and energetic connections of the body will be explored within a context of both ease and efficiency of movement as well as creative expression.
Note: May be repeated for up to 6 units of credit. Satisfies degree requirement, all students welcome.

DNCE 143. University Dance Company. 1 Unit
Term Typically Offered: Fall, Spring
Participation in the University Dance Company includes pre-professional dance conditioning and performance skill acquisition. Fulfills requirement for Dance Major and elective for Dance Minor; all students welcome to audition.
Note: Admission by audition only, this course is approximately 30 hours of participation in mandatory weekly class.

DNCE 150. Dance Theory and Criticism. 3 Units
Prerequisite(s): DNCE 122, DNCE 130, DNCE 131, instructor permission.
Term Typically Offered: Fall, Spring
Exploration of the contemporary theories and philosophies of movement, specifically in the dance genres of modern and jazz.. Also explores personal aesthetics and how to look at dance from a critical writing and oral presentation perspective. The role of the audience as well as the critic will be assessed and students will learn to evaluate content of movement in relation to its intention, motivation, and delivery.

DNCE 160. Creative Dance for Children. 3 Units
Term Typically Offered: Spring only
Exploration of creative dance as it applies to young children; including exploration of non-locomotor and locomotor movement patterns through problem solving and guided discovery techniques.

DNCE 190. Capstone Dance Project. 2 Units
Prerequisite(s): DNCE 150
Term Typically Offered: Fall, Spring
Participation and creative research in the rehearsal, production, and performance of a public dance production. Students will synthesize all major course materials to individually create a new choreographic work and collaboratively produce the Senior Dance Concert as their capstone project. Fulfills requirements for Dance Major.
Note: Dance Majors Only or Instructor Permission.

THEA 1. Introduction To Theatre. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
Primarily for non-majors interested in acquiring a background of information in theatre. Plays, history, acting theories, technical methods and people in the theatre. Lectures, demonstrations and discussions will characterize the greater portion of the course.

THEA 2. History of the Theatre: Ancient to Renaissance. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only
Broad survey of the nature and development of theatrical performance from ancient times through the Renaissance which emphasizes the relationship between theatre and the larger philosophical social and political concerns of its time.

THEA 3. Theatre History After 1660. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only
Investigates the relationship between the development of theatre styles, structures and institutions, and philosophical, political, and cultural practices after 1660. Considers plays, production styles, theatre as an institution, and issues of representation of gender, race and class.

THEA 5. Aesthetics of Theatre and Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
Interpretations of seminal dramatic scripts emphasizing the aesthetics of the theatrical art in relation to the cinematic medium.

THEA 9. Appreciation Of Acting. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
Examination of the art of acting, including a review of actors and acting - past and present. Basic exercises in voice and diction, movement, and character will be utilized.

THEA 11. Acting Study I. 3 Units
Prerequisite(s): Theatre and Dance Majors or Minors or instructor permission.
Term Typically Offered: Fall, Spring
An introduction to, and a solid working foundation of, the basic building blocks of the acting craft. Through ensemble building, personal reflection, physical commitment, and vocal awareness exercises, students have the opportunity to improve and grow as an actor in both individual and partnered performance. Key learning goals include the ability to understand, interpret and execute the foundational elements of drama (plot, character, thought, and language).
THEA 14. Stage Makeup and Costume Construction. 3 Units
Term Typically Offered: Fall, Spring
This course provides a comprehensive look at the technical side of stage makeup and stage costumes, with an emphasis on makeup application and costume construction. Students learn use of materials, equipment, theatre terminology, and the practical aspects of costume and stage makeup realization. Students work on costume and makeup projects from start to finish in the makeup lab and costume shop.
Note: Enrollment restricted to Theatre Majors/Minors, Dance Majors/Minors; non-majors enrolled with Department approval only; Instructor permission required to enroll concurrently with THEA 16 or 20.

THEA 16. Stagecraft. 3 Units
Term Typically Offered: Fall, Spring
Principles of scenic and stage prop construction, techniques of mounting and shifting stage scenery, and the study of ground plans and construction drawings for theatrical production. Lecture/lab activity.
Note: May not be taken concurrently with THEA 14 or THEA 20 without instructor permission.

THEA 20. Lighting. 3 Units
Term Typically Offered: Fall, Spring
Principles of stage lighting, fixtures, control and color. Introduction to basic concepts and practices of lighting design. Lecture/lab activity.
Note: May not be taken concurrently with THEA 14 or THEA 16 without instructor permission.

THEA 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

THEA 96A. Stage and Production Management. 3 Units
Term Typically Offered: Spring only
Explores the relationship between stage and production management, including the preparation of prompt scripts, pre- and post-production planning and organization, as well as the management of actors, technical rehearsals, and performances. This course focuses on historical and global perspectives, communication tools, and strategies used in the creation and organization of a theatrical production. May count as an elective for the major with advisor approval.

THEA 100. Script Analysis. 3 Units
Prerequisite(s): THEA 2, THEA 3
Corequisite(s): THEA 3
Term Typically Offered: Spring only
Through lecture and discussion, students explore the foundational elements of play scripts. The class investigates the structure of a play as well as its use of character, thought, plot, diction, song, and spectacle to analyze how a play’s social and cultural elements inform potential productions.

THEA 102A. Voice and Movement I. 3 Units
Prerequisite(s): THEA 11.
Term Typically Offered: Fall, Spring
Introduction to the basic fundamentals of voice production and movement for the actor. Basic anatomy and physiology, relaxation, alignment, and breath work and its connection to movement. Feldenkrais, the Alexander Technique, and physical strengthening exercises are used in combination with vocal exercises to develop the actor’s voice and body. Vocal and physical improvisation are introduced through various voice and movement exercises.

THEA 102B. Voice and Movement II. 3 Units
Prerequisite(s): THEA 11, THEA 102A or instructor permission.
Term Typically Offered: Fall, Spring
Strengthening and enhancing the vocal work developed in Voice and Movement I is continued with an in depth study of the International Phonetic Alphabet and its importance when performing heightened language plays. Solo presentation and a devised final ensemble project round out the course requirements.

THEA 104. Acting Study II. 3 Units
Prerequisite(s): THEA 11, THEA 102A or instructor permission.
Term Typically Offered: Fall, Spring
To further develop the basic concepts of acting through scene work from the American modern repertoire. Particular emphasis is placed on the importance of a play’s given circumstances, and the commitment required to make bold, active tactics choices when developing a character. Further investigation of the actor’s process in analyzing text and incorporating research through character analysis, as it ties into performance, are explored.

THEA 106. Latin American Film. 3 Units
Term Typically Offered: Fall, Spring
Exploration of the major movements in Latin American cinema beginning with the initial impetus of the Argentine and Mexican film industry of the late 1940’s and the relationship of their aesthetic formulas to the cultural and socio/political climate of major Latin American nations.

THEA 107. Directing. 3 Units
Prerequisite(s): THEA 2, THEA 3, THEA 11, THEA 14, THEA 16, THEA 20, THEA 100
Term Typically Offered: Fall only
Practical experience in production procedures, characterization and basic principles of play direction. Analyzes directing techniques. Class typically attends a rehearsal and performance at Capital Stage (professional theatre in Midtown).
Note: Field trip.
Field trip(s) may be required.

THEA 109. Musical Theatre. 3 Units
Prerequisite(s): THEA 11
Term Typically Offered: Spring only
Practical study in singer-actor performance techniques. Major consideration is given to coordination of gesture and/or choreography, dialogue, melody, and lyric.
3 Units
**Prerequisite(s):** THEA 11, THEA 102A and/or THEA 102B, THEA 104 or instructor permission.  
**Term Typically Offered:** Fall, Spring

The study of ways to research, rehearse and perform advanced acting styles and techniques with an emphasis on text analysis, given circumstances, subtext, and heightened language.  
**Note:** May be taken twice for credit.

THEA 111. Audition Technique.  
3 Units
**Prerequisite(s):** THEA 11, THEA 102A &/OR THEA 102B, THEA 104; Musical Theatre minors must also take THEA 109.  
**Term Typically Offered:** Spring only

An in-depth study of the business of becoming a working professional actor and the techniques needed when auditioning for a professional theatre company. Students prepare an audition repertoire that is appropriate to their age and type; audition for a panel of theatre professionals and receive feedback for both areas of skill and those needing improvement. Resumes, headshots, trade papers, skill sets, and financial budgeting are examples of the areas included within the content of this course. An introduction to television/commercial and musical theatre audition techniques is also incorporated.

THEA 113. Acting Styles: Shakespeare.  
3 Units
**Prerequisite(s):** THEA 11, THEA 102A &/or THEA 102B, THEA 104  
**Term Typically Offered:** Fall, Spring

Designed to familiarize the intermediate acting student with the very specific demands of performing the works of William Shakespeare. Beginning with an in-depth study of the structure and meter of verse poetry, THEA 113 provides the vocal, physical, and analytical tools with which to approach this material in an intelligent and confident manner. Scene and monologue work is detailed and extensive.

THEA 115. Puppetry.  
3 Units  
**Term Typically Offered:** Fall, Spring

Play production with puppets. Practical work in constructing and manipulating various kinds of puppets. Simple puppets for use at elementary level; hand puppet production. Lecture/lab activity.

THEA 115A. Multicultural Puppetry.  
3 Units  
**General Education Area/Graduation Requirement:** Arts (Area C1), Race & Ethnicity Graduation Requirement (RE)  
**Term Typically Offered:** Fall, Spring

Multicultural puppetry was developed to introduce the student to the techniques and construction of puppetry and its use in a multicultural setting. Puppetry has been found to be an excellent tool for the teaching of multiculturalism to children. Emphasizes the methodology in the development of multicultural/multilingual scripts and their use in the implementation of curriculum. The ability to speak a second language is not a prerequisite.

THEA 118. Children's Theatre.  
3 Units  
**Term Typically Offered:** Fall, Spring

Study of special problems and techniques in the production of formal and improvisational drama for children; a consideration of techniques, methods and materials for use in the classroom to support and supplement curricular goals.

THEA 120A. Practicum in Technical Production.  
1 Unit  
**Term Typically Offered:** Fall, Spring

Practical experience in handling technical stagecraft problems, stage management, and crew management. Activity and participation in major productions. Four hours per week minimum required in workshop.  
**Note:** THEA 120A requires students to work on one departmental production a semester for a minimum of 4 hours/week; may be repeated for credit.

THEA 120B. Practicum in Technical Production.  
2 Units  
**Term Typically Offered:** Fall, Spring

Practical experience in handling technical stagecraft problems, stage management, crew management. Activity and participation in major productions. Eight hours minimum a week required workshop.  
**Note:** THEA 120B requires students to work on two departmental productions a semester for a minimum of 8 hours/week; may be repeated for credit.

THEA 120C. Practicum in Technical Production.  
3 Units  
**Term Typically Offered:** Fall, Spring

Practical experience in handling technical stagecraft problems, stage management, crew management. Activity and participation in major productions. 12 hours minimum a week required workshop.  
**Note:** THEA 120C requires students to work on three departmental productions a semester for 12 hours/week; may be repeated for credit.

THEA 121. Rehearsal and Performance.  
1 Unit  
**Term Typically Offered:** Fall, Spring

Participation in the preparation, rehearsal and performance of a departmental production. Approximately 50 hours of participation (including rehearsal and performance time) for one unit of credit. Admission by audition. A total of six undergraduate units may be taken.

THEA 123. Lighting and Set Design.  
3 Units  
**Prerequisite(s):** THEA 16 and THEA 20 or instructor permission.  
**Term Typically Offered:** Fall, Spring

Advancement in the methods of developing concepts for and of productions involving analysis of the script, research and spatial awareness in relation to scenic and lighting design.

THEA 131. Costume Design.  
3 Units  
**Term Typically Offered:** Spring only

Study of costume history, design elements, play and character analysis, rendering and presentation techniques, and production procedures. Practical experience in the basics of costume construction with a focus on character interpretation and collaboration with other theatre artists.

THEA 140. Black Drama in the African Diaspora.  
3 Units  
**General Education Area/Graduation Requirement:** Arts (Area C1)  
**Term Typically Offered:** Fall, Spring

Survey of the contributions of theatre artists in the African Diaspora. The reading list includes dramas from Africa, the Caribbean and United States and focuses on how social, cultural, and political climates influence Black Drama.
THEA 144.  Women and Theatre: Staging Diversity.  3 Units
General Education Area/Graduation Requirement: Race & Ethnicity
Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring
Survey and performance course that focuses on identity theories and the
contributions of contemporary female theatre artists. Lecture two hours;
lab two hours.
Cross Listed: WOMS 144; only one may be counted for credit.

THEA 155.  Contemporary World Cinema.  3 Units
Term Typically Offered: Fall, Spring
A historical review of the development of major international film styles
and themes. Theoretical and critical concepts derived from this study of
international film and then used as the basis to analyze contemporary
films of South America, Europe, India, East Asia, Africa and the Middle
East. Emphasis is on both the development of formal film techniques and
a comparison of the unique cultural values that shape the film narrative
style.
Crosslisted: FILM 155

THEA 170.  African American Theatre and Culture.  3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+;
or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement
in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ
score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing
Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Survey of African American theatre and drama as a reflection of African
American history and culture from slavery to today. This is a writing-
intensive course.

THEA 173.  Contemporary Chicano/Latino Theatre: Themes and
Performance 1965-Present.  3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
Study of contemporary Chicano/Latino, Chicana/Latina theatre and
drama from 1965 to the present, and its approaches toward performance.
The course focuses on new trends, influences and new developments in
playwriting, directing, performance styles, and its impact on the movie
industry.

THEA 174.  Multicultural Perspectives in American Theatre.  3 Units
General Education Area/Graduation Requirement: Arts (Area C1), Race &
Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring
Study of the historical and artistic contributions of Native Americans,
Chicano/Latinos, African-Americans and Asian-Americans to American
Theatre. Focuses on a range of plays from various ethnic and racial
groups, forming a multicultural classroom experience; specifically study
groups, from 1965 to the present, and examine the cultural, sociological
and political climate in which these plays were created.

THEA 175.  Multicultural Perspectives in American Film.  3 Units
General Education Area/Graduation Requirement: Arts (Area C1), Race &
Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring
Study of the historical and artistic contributions of Native American,
Chicano/Latino, African-Americans and Asian American to the American
cinema. The course will concentrate on a range of films with an emphasis
on multicultural theoretical and critical writings and will examine the
cultural and socio-political climate in which these films were crafted.

THEA 190.  Senior Production.  2 Units
Prerequisite(s): THEA 2, THEA 3, THEA 11, THEA 14, THEA 16, THEA 20,
THEA 100, THEA 120A, THEA 104, THEA 107, THEA 120 (3 units),
THEA 121 and THEA 123 or THEA 131.
Corequisite(s): THEA 120 (3 units) may be taken concurrently if needed
Term Typically Offered: Spring only
This capstone course provides practical experience in theatrical
production by focusing on the foundational elements of play production
and the collaborative page-to-page production process.

THEA 194.  Theatre-Related Work Experience.  3 - 12 Units
Prerequisite(s): Consent of Department chair.
Term Typically Offered: Fall, Spring
Supervised employment in a company or producing agency working
on theatre-related work, arranged through the Theatre and Dance
Department and the Cooperative Education Program office. Requires
preparation of application packet, completion of a 3-6 month full-time or
part-time work assignment, and a written report. No more than 3 units
will be counted towards the degree.
Note: Open only to upper division or graduate students with appropriate
course preparation.
Credit/No Credit

THEA 195.  Fieldwork.  2 - 3 Units
Prerequisite(s): Junior or Senior standing and permission of the
instructor of record.
Term Typically Offered: Fall, Spring
Internship with local theatre company or arts organization that provides
direct, supervised experience with different aspects of performance and/
or theatre management. Requires students to maintain a journal and
submit a final paper to faculty internship coordinator. Graded: Credit/ No
Credit Units: 2.00 - 3.00
Credit/No Credit

THEA 199.  Special Problems in Theatre.  1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Individual project or directed reading.
Note: Departmental petition required.

THEA 500.  Culminating Experience.  3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate
coordinator.
Term Typically Offered: Fall, Spring
Completion of a thesis, directing project, or playwriting project.

BA in Dance
Units required for Major: 48
Total units required for BA: 120

Program Description
The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

Minimum Grade Requirement
A minimum grade of "C-" is required of courses applied to the major.

Program Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>DNCE 11A</td>
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<td>or DNCE 11C</td>
<td>Jazz Dance Level IIC</td>
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<td>DNCE 12A</td>
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<td>or DNCE 12C</td>
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<td>DNCE 22</td>
<td>Music for Dance</td>
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<td>THEA 14</td>
<td>Stage Makeup and Costume Construction</td>
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<td>or THEA 16</td>
<td>Stagecraft</td>
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<td>or THEA 20</td>
<td>Lighting</td>
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<td>or DNCE 4B</td>
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<td>or DNCE 4C</td>
<td>Tap Dance Level IC</td>
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<td>or DNCE 5A</td>
<td>Mexican Folklorico Level IA</td>
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<td>DNCE 111A</td>
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<td>DNCE 112A</td>
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<td>DNCE 122</td>
<td>Dance Composition II</td>
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<td>DNCE 130</td>
<td>Appreciation and History of Dance</td>
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<td>DNCE 131</td>
<td>Dance Cultures Of America</td>
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<td>DNCE 132</td>
<td>African-Caribbean Dance</td>
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<td>DNCE 142</td>
<td>Dance Science and Somatics</td>
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<td>DNCE 143</td>
<td>University Dance Company</td>
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<td>DNCE 150</td>
<td>Dance Theory and Criticism</td>
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<td>DNCE 160</td>
<td>Creative Dance for Children</td>
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<td>DNCE 190</td>
<td>Capstone Dance Project</td>
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<td>THEA 120A</td>
<td>Practicum in Technical Production</td>
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<td>THEA 121</td>
<td>Rehearsal and Performance</td>
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Total Units: 48

1 Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements

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<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>A1</td>
<td>Oral Communication</td>
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<td>A2</td>
<td>Written Communication</td>
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<td>A3</td>
<td>Critical Thinking</td>
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<td>B1</td>
<td>Physical Science</td>
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<tr>
<td>B2</td>
<td>Life Forms</td>
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<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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<td>B4</td>
<td>Math Concepts</td>
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<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td>C1</td>
<td>Arts</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
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<td>C1/C2</td>
<td>Area C Course 2</td>
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<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<td>D1</td>
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<tr>
<td>Area D Course</td>
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<tr>
<td>Area D Course</td>
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<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<td>E1</td>
<td>Understanding Personal Development (3 Units)</td>
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<td>Area E Course</td>
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<td>P1</td>
<td>Ethnic Studies (3 Units)</td>
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<tr>
<td>Area F Course</td>
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</tbody>
</table>

Total Units: 43

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.
Graduation Requirements

Code | Title | Units
--- | --- | ---
**Graduation Requirements (required by CSU) (9 Units)**
American Institutions: U.S. History | 3
American Institutions: U.S. Constitution & CA Government | 3
Writing Intensive (WI) | 3

**Graduation Requirements (required by Sacramento State) (12 Units)**
English Composition II | 3
Race and Ethnicity in American Society (RE) | 3
Foreign Language Proficiency Requirement | 6

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

1 Required in Major; also satisfies Graduation Requirement.
2 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Theatre

Units required for Major: 48
Total units required for BA: 120

Program Description

The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

Minimum Grade Requirement

A minimum grade of "C-" is required of courses applied to the major.

Program Requirements

Code | Title | Units
--- | --- | ---
**Required Lower Division Courses (18 Units)**
THEA 2 | History of the Theatre: Ancient to Renaissance | 3
THEA 3 | Theatre History After 1660 | 3
THEA 11 | Acting Study I | 3
THEA 14 | Stage Makeup and Costume Construction | 3
THEA 16 | Stagecraft | 3

THEA 20 | Lighting | 3
**Required Upper Division Courses (24 Units)**
THEA 100 | Script Analysis | 3
THEA 102A | Voice and Movement I | 3
THEA 104 | Acting Study II | 3
THEA 107 | Directing | 3
THEA 120A | Practicum in Technical Production (1 unit x 3) | 1
THEA 121 | Rehearsal and Performance | 1
THEA 190 | Senior Production | 2
THEA 192 | Advanced Stagecraft | 3
THEA W85 | Directed Readings in Theatre | 1
THEA 195 | Fieldwork | 1
THEA 199 | Special Problems in Theatre | 1

Select one of the following courses fulfilling the "Multicultural Theatre" requirement:
THEA/WOMS 144 | Women and Theatre: Staging Diversity | 1
THEA 170 | African American Theatre and Culture | 1
THEA 173 | Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present | 1
THEA 174 | Multicultural Perspectives in American Theatre | 1

Select one of the following courses fulfilling the "Design" requirement:
THEA 123 | Lighting and Set Design | 3
THEA 131 | Costume Design | 3

**Electives (6 Units)**
Select two of the following: | 6
THEA 102B | Voice and Movement II | 2
THEA 109 | Musical Theatre | 3
THEA 110 | Acting Study III: Advanced Acting | 3
THEA 111 | Audition Technique | 3
THEA 113 | Acting Styles: Shakespeare | 3
THEA 115 | Puppetry | 3
THEA 115A | Multicultural Puppetry | 1
THEA 118 | Children's Theatre | 3
THEA 140 | Black Drama in the African Diaspora | 1
THEA 175 | Multicultural Perspectives in American Film | 1
THEA 195 | Fieldwork | 1
THEA 199 | Special Problems in Theatre | 1

**Total Units** | **48**

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 Electives must be determined in consultation with a faculty advisor.

General Education Requirements

Code | Title | Units
--- | --- | ---
**Area A: Basic Subjects (9 Units)**
A1 - Oral Communication | 3
A2 - Written Communication | 3
A3 - Critical Thinking | 3

**Area B: Physical Universe and Its Life Forms (13 Units)**
B1 - Physical Science | 3
B2 - Life Forms | 3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) | 1
B4 - Math Concepts | 3
Graduation Requirements

<table>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU)</td>
<td>6-9</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Graduation Requirements (required by Sacramento State)</td>
<td>9-12</td>
</tr>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Proficiency Requirement</td>
<td>6</td>
</tr>
</tbody>
</table>

Notes:

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Department offers students a "select from the following" option:
   - If student chooses to take THEA 170, they will meet the Writing Intensive (WI) graduation requirement.

3. Department offers students a "select from the following" option:
   - If student chooses to take THEA 115, THEA 144/ WOMS 144, THEA 174, or THEA 175, they will meet the Race and Ethnicity (RE) graduation requirement.

4. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C" or better required.

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-proficiency.html

Minor in Dance

Units required for Minor: 18, 9 of which must be upper division

Program Description

The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

Minimum Grade Requirement

A minimum grade of "C-" is required of courses applied to the minor.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNCE</td>
<td>Jazz Dance Level IA</td>
<td>2</td>
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<tr>
<td>DNCE</td>
<td>Jazz Dance Level IB</td>
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</tr>
<tr>
<td>DNCE</td>
<td>Jazz Dance Level IC</td>
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</tr>
<tr>
<td>DNCE</td>
<td>Contemporary Dance Level IA</td>
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</tr>
<tr>
<td>DNCE</td>
<td>Contemporary Dance Level IB</td>
<td></td>
</tr>
<tr>
<td>DNCE</td>
<td>Contemporary Dance Level IC</td>
<td></td>
</tr>
<tr>
<td>DNCE</td>
<td>Ballet Level IA</td>
<td></td>
</tr>
<tr>
<td>DNCE</td>
<td>Ballet Level IB</td>
<td></td>
</tr>
<tr>
<td>DNCE</td>
<td>Ballet Level IC</td>
<td></td>
</tr>
<tr>
<td>DNCE</td>
<td>Tap Dance Level IA</td>
<td></td>
</tr>
<tr>
<td>DNCE</td>
<td>Tap Dance Level IB</td>
<td></td>
</tr>
<tr>
<td>DNCE</td>
<td>Tap Dance Level IC</td>
<td></td>
</tr>
<tr>
<td>DNCE</td>
<td>Mexican Folklorico Level IA</td>
<td></td>
</tr>
<tr>
<td>DNCE</td>
<td>Mexican Folklorico Level IB</td>
<td></td>
</tr>
<tr>
<td>DNCE</td>
<td>Mexican Folklorico Dance Level IC</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

Select two of the following:

| DNCE   | Jazz Dance Level IIA      | 4     |

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Department offers students a "select from the following" option:

3. Department offers students a "select from the following" option:

4. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C" or better required.

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-proficiency.html
### Minor in Musical Theatre

**Units required for Minor: 18**

**Program Description**
The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

**Minimum Grade Requirement**
A minimum grade of "C-" is required of courses applied to the minor.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 11</td>
<td>Acting Study I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 109</td>
<td>Musical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEA 111</td>
<td>Audition Technique</td>
<td>3</td>
</tr>
<tr>
<td>THEA 121</td>
<td>Rehearsal and Performance</td>
<td>1</td>
</tr>
<tr>
<td>DNCE 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DNCE 3A</td>
<td></td>
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<tr>
<td>DNCE 4</td>
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<td>DNCE 6</td>
<td></td>
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<tr>
<td>DNCE 11</td>
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<tr>
<td>Total Units</td>
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<td>12</td>
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</tbody>
</table>

1 Credit MUST be from participation in the "Outreach Show"

### Minor in Theatre

**Units required for Minor: 18**

**Program Description**
The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 2</td>
<td>History of the Theatre: Ancient to Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>or THEA 3</td>
<td>Theatre History After 1660</td>
<td>3</td>
</tr>
<tr>
<td>THEA 11</td>
<td>Acting Study I</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THEA 14</td>
<td>Stage Makeup and Costume Construction</td>
<td>3</td>
</tr>
<tr>
<td>THEA 16</td>
<td>Stagecraft</td>
<td></td>
</tr>
<tr>
<td>THEA 20</td>
<td>Lighting</td>
<td></td>
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<tr>
<td>Total Units</td>
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<td>12</td>
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</tbody>
</table>

**Required Lower Division Courses (9 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>THEA 2</td>
<td>History of the Theatre: Ancient to Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>or THEA 3</td>
<td>Theatre History After 1660</td>
<td>3</td>
</tr>
<tr>
<td>THEA 11</td>
<td>Acting Study I</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THEA 14</td>
<td>Stage Makeup and Costume Construction</td>
<td>3</td>
</tr>
<tr>
<td>THEA 16</td>
<td>Stagecraft</td>
<td></td>
</tr>
<tr>
<td>THEA 20</td>
<td>Lighting</td>
<td></td>
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</table>

**Required Upper Division Courses (9 Units)**

<table>
<thead>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 120A</td>
<td>Practicum in Technical Production</td>
<td>1</td>
</tr>
<tr>
<td>THEA 121</td>
<td>Rehearsal and Performance</td>
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</tr>
</tbody>
</table>
Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>THEA 100</td>
<td>Script Analysis</td>
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<tr>
<td>THEA 102A</td>
<td>Voice and Movement I</td>
<td></td>
</tr>
<tr>
<td>THEA 102B</td>
<td>Voice and Movement II</td>
<td></td>
</tr>
<tr>
<td>THEA 104</td>
<td>Acting Study II</td>
<td></td>
</tr>
<tr>
<td>THEA 109</td>
<td>Musical Theatre</td>
<td></td>
</tr>
<tr>
<td>THEA 110</td>
<td>Acting Study III: Advanced Acting</td>
<td></td>
</tr>
<tr>
<td>THEA 111</td>
<td>Audition Technique</td>
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<tr>
<td>THEA 113</td>
<td>Acting Styles: Shakespeare</td>
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<tr>
<td>THEA 115</td>
<td>Puppetry</td>
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<tr>
<td>THEA 115A</td>
<td>Multicultural Puppetry</td>
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<td>THEA 118</td>
<td>Children's Theatre</td>
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<td>THEA 123</td>
<td>Lighting and Set Design</td>
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<tr>
<td>THEA 131</td>
<td>Costume Design</td>
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<td>THEA 140</td>
<td>Black Drama in the African Diaspora</td>
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<tr>
<td>THEA/WOMS 144</td>
<td>Women and Theatre: Staging Diversity</td>
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<tr>
<td>THEA 170</td>
<td>African American Theatre and Culture</td>
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<tr>
<td>THEA 173</td>
<td>Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present</td>
<td></td>
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<tr>
<td>THEA 174</td>
<td>Multicultural Perspectives in American Theatre</td>
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<tr>
<td>THEA 175</td>
<td>Multicultural Perspectives in American Film</td>
<td></td>
</tr>
<tr>
<td>THEA 195</td>
<td>Fieldwork</td>
<td></td>
</tr>
<tr>
<td>THEA 199</td>
<td>Special Problems in Theatre</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 18

World Languages and Literatures

College of Arts and Letters

Program Description

Sacramento State offers courses and/or degrees in the languages listed below. Refer to appropriate section of catalog for course descriptions and requirements.

- **Chinese** - Minor
- **French** - Bachelor of Arts, Minor
- **German** - Minor
- **Italian** - Minor
- **Japanese** - Minor
- **Spanish** - Bachelor of Arts, Minor, Master of Arts

In addition, coursework is available in:

- **Arabic**
- **Korean**
- **Punjabi**

Special Features

- International Programs are offered in China, France, Germany, Italy, Japan, Quebec, Spain and Taiwan.
- Honor Societies exist for the areas of French, German, and Spanish. Language Clubs are organized for Chinese, French, German, Italian, Japanese, and Spanish. Community internships and field experience are offered in Chinese, French, German, Italian, Japanese, and Spanish.

Certificate Program in Criminal Justice Spanish

Total Units for Certificate: 17

The Certificate Program in Criminal Justice Spanish is designed to prepare students and professionals in the criminal justice and related fields to serve the needs of the growing Spanish-speaking population in California by being able to communicate with them.

Coursework in the Certificate Program in Criminal Justice Spanish lends itself to a practical acquisition of specialized terminology in Spanish used in criminal justice settings and Hispanic cultural competence.

For admission to the program, participants need to be in good academic standing and successful completion of three years of HS Spanish, which is equivalent to SPAN 2A, or instructor permission.

The program coordinator will review every student at the end of every academic term, and determine whether students are making sufficient progress to continue in the program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 8A</td>
<td>Intermediate Spanish for Criminal Justice I</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 8B</td>
<td>Intermediate Spanish for Criminal Justice II</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 195</td>
<td>Internship/Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 121J</td>
<td>Spanish Language For Criminal Justice Professionals</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in Chinese (p. 327)

Contact Information
Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051
(916) 278-6333
Department of World Languages & Literatures Website (http://www.csus.edu/wll/)

Faculty
SMITH, CURTIS D.

CHIN 1A. Elementary Mandarin. 5 Units
Term Typically Offered: Fall only

Beginning Mandarin with emphasis on listening comprehension, speaking, grammar structure and character writing. The relationship between language and culture will also be emphasized. Includes an introduction to elements of Chinese culture that pertain to language, such as mode of thinking, inter-human relations, and aesthetic expressions.

CHIN 1B. Elementary Mandarin. 5 Units
Prerequisite(s): CHIN 1A or instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of CHIN 1A, with growing emphasis on reading, writing, and listening. Chinese cultural patterns as reflected in the language, such as societal values and views of the world, will continue to be emphasized.

CHIN 2A. Intermediate Mandarin. 4 Units
Prerequisite(s): CHIN 1B or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall only

Intermediate Mandarin on the further development of reading, speaking, and writing skills. Emphasis will be placed on the shift from romanized script to Chinese characters. Introduction will also be made to simple prose reading. Meets the Foreign Language Graduation Proficiency Requirement.

CHIN 2B. Intermediate Mandarin. 4 Units
Prerequisite(s): CHIN 2A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of CHIN 2A designed to further the development of reading, speaking and writing skills at the intermediate to intermediate-high level.

CHIN 110. Advanced Mandarin. 3 Units
Prerequisite(s): CHIN 2B or instructor permission.
Term Typically Offered: Fall only

Offered to third-year Mandarin learners, this course is designed to further develop language and communication skills with a focus on reading and discussing selected topics pertaining to a variety of contemporary China. Students will also study strategies for reading both simplified and traditional Chinese characters.

CHIN 120. Chinese Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Presentation of formative cultural achievements of China through language and literature with a view to understanding present-day popular Chinese culture. A general survey conducted in English for students who are taking Chinese language courses and others who want a deeper appreciation of this important non-Western culture.
Minor in Chinese

Total units required for Minor: 12 upper division units in Chinese selected with the approval of the Chinese language advisor

Program Description

Courses in Chinese encompass the study of Chinese language, literature, media, and culture. The primary emphasis is on Modern Standard Mandarin Chinese. Elementary Chinese courses (CHIN 1A through CHIN 1B) focus on reading, writing, and spoken Mandarin, based on Traditional Chinese characters. Upon completion of CHIN 2B, students will be able to converse at an elementary to intermediate level and to read and write Traditional and Simplified Chinese texts. The upper division courses form the nucleus for a minor and provide a foundation for advanced studies at other universities or graduate school. Upper division lecture courses taught in English are designed to help students appreciate the richness of Chinese culture, language, and literature in the tradition of general education.

An understanding of China, combined with proficiency in the Chinese language, will, in addition to the obvious academic and intellectual gains, make graduates more versatile and sought after in international business, education, social work, law enforcement, government, and Foreign Service positions.

Through language instruction, students will acquire the basic tools to communicate with the growing population of Chinese-speaking immigrants in California, to undertake travels in China, Taiwan, Hong Kong, and other Southeast Asian countries where Chinese are a major ethnic group, and to pursue further studies in Chinese history, culture, and society.

Students interested in further advanced study in Chinese may design a Special Major in Chinese by consulting program faculty and spending one year undergoing intensive language study at a Mandarin Training Center in Taiwan, China, or Hong Kong. The Asian Studies Program also offers a major with a concentration in Chinese Studies.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 110</td>
<td>Advanced Mandarin: Modern Chinese Fiction</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select International Studies program or upper division units in Chinese</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>12</td>
</tr>
</tbody>
</table>

Note: The prerequisite lower division language acquisition will generally be done through coursework; though an equivalency exam is available for those students who feel they may already be at the upper division level.

French

Program Description

The French program is a cultural resource to Sacramento State and the Sacramento community in general; it represents the French language, literature, and civilization of Europe, Africa, and North America as well as other areas of the world where French is the common language.

The French program helps prepare its majors and minors for careers not only in teaching but in many other fields as well, such as business, journalism, political sciences, and government service. To that end it offers courses that enable students to grow intellectually and to live and work successfully in areas where the French language is spoken.

The program reaches out to both the local and international communities. Students have the opportunity to study abroad as well as to tutor and teach in local schools. The French faculty pride themselves on being accessible to students and taking a keen interest in the students' individual achievements.

The Bachelor of Arts in French offers an exploration of the vast contribution that French language and Francophone cultures have made to the world. The program gives courses in literature, culture, and language (there are also courses in translating and interpreting).

Students majoring in business often find a French minor to be an asset to their careers. Students majoring in other fields may minor in French if a large part of their professional literature is in French or because they may work in a location where French is widely spoken; for others a French minor may meet graduate-degree requirements.

Degree Programs

BA in French (p. 330)
Minor in French (p. 331)
Subject Matter Program (p. 332)
Special Features

- An active Francophone Club offers students the opportunity to participate in Francophone-oriented cultural and social events and a chance to meet Francophone people on an informal basis.
- Students are encouraged to spend part of their undergraduate careers in study abroad. Sacramento State sponsors exchanges with various universities in Quebec and a consortium of campuses of the University of Paris. The CSU has a Junior Year Abroad program in France at Aix-en-Provence. In addition, each year a Sacramento State graduate with a major in French is awarded a teaching assistantship in France with a salary from the French government. CSU students, with any major, may enroll for one year at a Canadian university. French majors, particularly, will find this program gives them a unique opportunity to become acquainted with French-Canadian culture and language. Summer language programs are available in Canada; students who achieve sufficient proficiency in French may attend a French-language university (information available from the Sacramento State Office of International Programs, Library 1001).

Career Possibilities

International Business Personnel · Trade and Commerce · Export/Import · Interpreter/Translator · Banking Representative · Buyer/Sales Representative · Foreign/Diplomatic Service · Airlines Personnel · Travel Industry · Media Personnel/Foreign Correspondent · Public Relations · US Immigration/Customs · US Information Agency · Peace Corps · Language Teacher · Bilingual/Foreign Secretary · Foreign Publications/Textbook Editor · Research Assistant

Contact Information

Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051
(916) 278-6333
Department of World Languages & Literatures Website (http://www.csus.edu/wll/)

Faculty

RUSSELL, BEATRICE

FREN 1A. Elementary French. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the development of elementary linguistic skills, with emphasis on the spoken language. The relationship of the language to French civilization and culture is given special attention.

FREN 1B. Elementary French. 4 Units
Prerequisite(s): FREN 1A and a suitable score on placement exam; or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring

Continuation of FREN 1A, with emphasis on reading, writing, listening and speaking. French culture and its relationship to language is given continued attention.

Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 2A. Intermediate French. 4 Units
Prerequisite(s): One year of college French, suitable score on placement exam; or instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Emphasis on speaking, reading and writing ability. Dialogues, discussions and compositions in French.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 2B. Intermediate French. 4 Units
Prerequisite(s): FREN 2A, suitable score on the placement exam; or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of FREN 2A.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 100. Phonetics and Pronunciation. 3 Units
Prerequisite(s): Four semesters of French or equivalent.
Term Typically Offered: Fall, Spring

Review and practice all the main phonetic features of the spoken French language. Complete familiarization with the international phonetic alphabet. Practice in written transcription and oral pronunciation of all vowel and consonant sounds in French. Review and practice characteristics of diction, articulation, intonation, the musical movement of the sentence and rhythm. Orthographic problems and the phenomena of spelling and pronunciation are integrated with all written and oral exercises. Elimination of specific pronunciation problems for English speakers (r/l, mute, e, nasals, final consonants, etc.).

FREN 101. Advanced Grammar. 3 Units
Prerequisite(s): FREN 2B or equivalent.
Term Typically Offered: Fall, Spring


FREN 102. Advanced Conversation. 3 Units
Prerequisite(s): Four semesters of French or equivalent.
Term Typically Offered: Fall, Spring

Mastery of spoken French language through discussion of personal readings to develop vocabulary and syntactical skills. Conducted in French. May be taken for credit twice.

FREN 103. Advanced Composition. 3 Units
Prerequisite(s): FREN 101 or instructor permission.
Term Typically Offered: Fall, Spring

Special attention to help students learn the dynamics of good writing, become sensitive to style and develop ability to express their thoughts coherently, in essentially correct and well structured French prose. Conducted in French.
FREN 104A. French Translation (French-English). 3 Units
Prerequisite(s): Upper division status in French.
Term Typically Offered: Fall, Spring
Development of translating techniques applicable to texts in areas such as literature, sciences, journalism, history, art. Review and comparative study of French and English grammars and styles. Conducted in French.

FREN 104B. French Translation (English-French). 3 Units
Prerequisite(s): FREN 101 and upper division status in French.
Term Typically Offered: Fall, Spring
Development of translating techniques from English to French applicable to texts in such areas as business, culture and/or literature. Continued comparative study of French and English grammars and styles. Conducted in French.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 107. Business French. 3 Units
Prerequisite(s): Second year college level proficiency or equivalent; or instructor permission.
Term Typically Offered: Fall, Spring
Designed to create awareness of linguistic and crosscultural differences affecting effective communication between American and Francophone speakers in the world of business, and to provide added confidence in transactions and negotiations. Explores how to do business in France, how different business structures work and interact, and how to participate in everyday business activities. Particularly helpful to International Business students to enhance understanding of Francophone and European markets and to develop business oriented French language skills. Prepares student to obtain two different Business French Certificates offered by the Chamber of Commerce and Industries of Paris and the French Ministry of Education. Conducted in French.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 109. French Language Practice. 3 Units
Prerequisite(s): FREN 2B.
Term Typically Offered: Fall, Spring
Practice with French conversation, reading, and vocabulary development; supervised individual and small-group instruction designed to develop French vocabulary, including the conversation, listening and reading skills necessary for advanced study in French. May be taken for credit three times.

FREN 110. Survey of French Literature. 3 Units
Prerequisite(s): FREN 101, FREN 103, FREN 109 or instructor permission.
Term Typically Offered: Fall, Spring
An introduction to French literature through texts of varied length from different time periods and genres with a focus on the use of language. Conducted in French.

FREN 111. Topics in Francophone Literature. 3 Units
Prerequisite(s): FREN 110, or equivalent; or instructor permission.
Term Typically Offered: Fall, Spring
Study of literary texts by Francophone writers with an emphasis placed on textual analysis and the relationship between text and context. Conducted in French.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 120. French Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Presentation of formative cultural achievements of the French world from its origins to the present, i.e., the origin of the French language. Contributions to European Renaissance, Baroque and Classicism, the Revolutionary and Romantic eras, and modern western culture.
Note: Open to non-majors. Course taught in English.

FREN 125. Quebec and French North America. 3 Units
Term Typically Offered: Fall, Spring
Development and significance of francophone culture in North America, notably Quebec, French Canada and Louisianan, are explored through historical events, social changes and artistic achievements. Introduces major cultural trends and traditions from the 17th century to the present through non-fiction, literary works and audio-visual presentations in art and music. French majors and minors are required to do all reading, research and papers in French.
Note: Upper division status required.

FREN 130. Culture Wars: From Knighthood to Revolution. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring
Study of the profound influence of culture wars through the interpretation of major French writers, philosophers and scientists ranging from the Middle Ages to the 18th century. All readings and lectures in English.
Note: Open to non-majors.

FREN 170. Seminar Conducted in French. 3 Units
Prerequisite(s): FREN 110.
Term Typically Offered: Fall, Spring
Seminars in French will be offered as needed.

FREN 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in French and instructor permission.
Term Typically Offered: Fall, Spring
Directed fieldwork in a project which uses language skills developed through previous study of French. Projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. May be taken more than once for credit. Does not apply to major.
Credit/No Credit

FREN 195. Fieldwork - Tutoring. 1 - 3 Units
Prerequisite(s): Native or near-native fluency in French, upper division status; or instructor permission.
Term Typically Offered: Fall, Spring
Tutoring of lower division French students under supervision of an instructor. Three hours of tutoring per week for each unit. Does not apply to major.
Credit/No Credit

FREN 196. Experimental Offerings in French. 3 Units
Term Typically Offered: Fall, Spring
Special courses will be scheduled as needed.
BA in French

Units required for Major: 36
Total units required for BA: 120

Program Description
The French program is a cultural resource to Sacramento State and the Sacramento community in general; it represents the French language, literature, and civilization of Europe and North America as well as other areas of the world where French is the common language.

The French program helps prepare its majors and minors for careers not only in teaching but in many other fields as well, such as business, journalism, and government service. To that end it offers courses that enable students to grow intellectually and to live and work successfully in areas where the French language is spoken.

The program reaches out to both the local and international communities. Students have the opportunity to study abroad as well as to tutor and teach in local schools. The French faculty pride themselves on being accessible to students and taking a keen interest in the students’ individual achievements.

The Bachelor of Arts in French offers an exploration of the vast contribution that French language and culture have made to the world. The program gives courses in literature, culture, and language (there are also courses in translating and interpreting).

Note: A GPA of 2.75 is required in courses applied to the major.

Additional Information
- **Credit by Exam:** A maximum of 16 units in foreign language studies may be challenged, only 12 of which may be in French.
- **Junior Year in France:** Student planning to apply for admission to the overseas program should consult the department for information.
- **Foreign Language for Advanced Degree Requirements:** Many graduate degree programs require competence in one or more foreign languages, and French is often is recommended or required. Students planning advanced degree study in areas having foreign language requirements should give careful consideration to completing two or more years of a foreign language as part of their baccalaureate degree.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Lower Division Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREN 1A</td>
<td>Elementary French</td>
<td>3</td>
</tr>
<tr>
<td>FREN 1B</td>
<td>Elementary French ²</td>
<td>3</td>
</tr>
<tr>
<td>FREN 2A</td>
<td>Intermediate French</td>
<td>3</td>
</tr>
<tr>
<td>FREN 2B</td>
<td>Intermediate French ²</td>
<td>3</td>
</tr>
</tbody>
</table>

| **Required Upper Division Courses (24 Units)**        |       |
| Language                                                                 |
| FREN 100 | Phonetics and Pronunciation                    | 3     |
| FREN 101 | Advanced Grammar                               | 3     |
| FREN 102 | Advanced Conversation                          | 3     |
| FREN 103 | Advanced Composition                           | 3     |
| Literature                                                                 |
| FREN 110 | Survey of French Literature                    | 3     |
| FREN 111 | Topics in Francophone Literature               | 3     |
| FREN 170 | Seminar Conducted in French                    | 3     |
| Culture                                                                 |
| FREN 120 | French Civilization ²                           | 3     |

| **Electives (9 Units)**                                |       |
| Select three of the following:                         | 9     |
| FREN 104A | French Translation (French-English)             |       |
| FREN 104B | French Translation (English-French)             |       |
| FREN 107  | Business French                                 |       |
| FREN 109  | French Language Practice                        |       |
| FREN 125  | Quebec and French North America                 |       |
| FREN 196  | Experimental Offerings in French                |       |

Total Units 33
There are no specific lower division course requirements. However, students must demonstrate competency equivalent to successful completion of the listed courses before beginning upper division work.

1 Course also satisfies General Education (GE)/Graduation Requirement.

Note: Students majoring in French are encouraged to minor in another field of their choice.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities 2</td>
<td>0</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course 2</td>
<td>0</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
</tbody>
</table>

**Area D: The Individual and Society (9 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area E: Understanding Personal Development (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>Area E Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area F: Ethnic Studies (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>Area F Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**: 40

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103). Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

**Graduation Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Writing Intensive (WI)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Graduation Requirements (required by Sacramento State) (6 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Foreign Language Proficiency Requirement 2,3</td>
<td>0</td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103). Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

**Minor in French**

Units required for Minor: 12 units all upper division courses taught in French

**Program Description**

The French program is a cultural resource to Sacramento State and the Sacramento community in general; it represents the French language, literature, and civilization of Europe and North America as well as other areas of the world where French is the common language.

The French program helps prepare its majors and minors for careers not only in teaching but in many other fields as well, such as business, journalism, and government service. To that end it offers courses that enable students to grow intellectually and to live and work successfully in areas where the French language is spoken.

The program reaches out to both the local and international communities. Students have the opportunity to study abroad as well as to tutor and teach in local schools. The French faculty pride themselves on being accessible to students and taking a keen interest in the students’ individual achievements.

Students majoring in business often find a French minor to be an asset to their careers. Students majoring in other fields may minor in French if a large part of their professional literature is in French or because they may work in a location where French is widely spoken; for others a French minor may meet graduate-degree requirements.

**Additional Information**

- Credit by Exam: A maximum of 16 units in foreign language studies may be challenged, only 12 of which may be in French.
- Junior Year in France: Student planning to apply for admission to the overseas program should consult the department for information.
- Foreign Language for Advanced Degree Requirements: Many graduate degree programs require competence in one or more foreign languages, and French is often is recommended or required. Students
planning advanced degree study in areas having foreign language requirements should give careful consideration to completing two or more years of a foreign language as part of their baccalaureate degree.

Program Requirements
Units required for Minor: 12 units all upper division courses taught in French

Note: Students are required to meet with a Minor Advisor for course selection.

Subject Matter Program
Program Description
The French program is a cultural resource to Sacramento State and the Sacramento community in general; it represents the French language, literature, and civilization of Europe and North America as well as other areas of the world where French is the common language.

The French program helps prepare its majors and minors for careers not only in teaching but in many other fields as well, such as business, journalism, and government service. To that end it offers courses that enable students to grow intellectually and to live and work successfully in areas where the French language is spoken.

The program reaches out to both the local and international communities. Students have the opportunity to study abroad as well as to tutor and teach in local schools. The French faculty pride themselves on being accessible to students and taking a keen interest in the students’ individual achievements.

Additional Information
- Credit by Exam: A maximum of 16 units in foreign language studies may be challenged, only 12 of which may be in French.
- Junior Year in France: Student planning to apply for admission to the overseas program should consult the department for information.
- Foreign Language for Advanced Degree Requirements: Many graduate degree programs require competence in one or more foreign languages, and French is often recommended or required. Students planning advanced degree study in areas having foreign language requirements should give careful consideration to completing two or more years of a foreign language as part of their baccalaureate degree.

Program Requirements
The requirements for a teaching credential in French are the same as those for the major. Candidates must contact the French Credential Program Coordinator, in the Department of Foreign Languages, to have their transcripts reviewed, to schedule an oral interview in French and to assess their subject matter competency. The Foreign Language Proficiency Examination in French may also be required.

Teaching credential candidates must also complete the Professional Education Program in addition to other requirements for a teaching credential. You may obtain information about the Professional Education Program from the Teacher Preparation Program Office, Eureka Hall 216, (916) 278-6403.

A minor in another subject which can lead to a Supplementary Teaching Credential is strongly recommended.

German
College of Arts and Letters
Program Description
Courses in German encompass the study of German language, literature, and culture. Language study begins with the imparting of the four basic language skills, namely, speaking, aural comprehension, reading, and writing. The teaching of these skills is provided as part of programs in liberal arts, in general education and in professional training, as well as a service for other degree programs.

The imparting of the basic language skills is the first and necessary step toward what is actually the liberal arts core of our curriculum: the upper division offerings. It is through the advanced language, literature, and culture courses that the students become familiar with the intricacies of another language and with the literary and cultural contributions made by the people who speak it.

Students who are considering the study of German should talk to a German faculty advisor. Each student minorning in German is assigned an advisor upon entry into the program. For assistance in obtaining an advisor, contact the Foreign Language Department office.

Teaching credential candidates must complete the Professional Education Program in addition to other requirements for a teaching credential. Consult a Department credential advisor for details. They may also obtain information about the Professional Education Program from the Teacher Preparation Program Office, Eureka Hall 216, (916) 278-6403.

Degree Programs
Minor in German (p. 334)
Subject Matter Program (p. 334)

Special Features
- Close cooperation between members of the German faculty and the Sacramento German community has provided students with an opportunity to improve their language abilities and to become familiar with German customs and traditions.
- In addition, the German Club on campus allows students to socialize with others of similar interests.
- The Sacramento State chapter of Delta Phi Alpha, the national German honor society, gives recognition and awards to outstanding students and scholars.
- The German program is supported by modern language laboratory facilities, a departmental library, and a collection of instructional materials.
- Students receive tutorial help from graduate exchange students and other graduate students.
- In order to acquire maximum proficiency in the use of the German language, students are encouraged to participate in the Sacramento State International Programs in Heidelberg or Tübingen, the student exchange program established with the Department of American Studies at the Johannes-Gutenburg Universität of Mainz, Germany, or the German-Education Student Exchange Program at the
Faculty

GERM 1A. Elementary German. 4 Units
Term Typically Offered: Fall only
Focuses on the development of listening, speaking, and reading skills. Special attention will be given to the relationship of the language to the civilization and culture of the German-speaking countries.

GERM 1B. Elementary German. 4 Units
Prerequisite(s): GERM 1A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring
Continuation of GERM 1A. Speaking, listening, and reading skills are practiced and more emphasis is placed on the development of writing skills than in GERM 1A. Cultural introduction to the German-speaking countries is continued.

GERM 2A. Intermediate German. 4 Units
Prerequisite(s): GERM 1B or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring
Continuation of GERM 1B with review of grammar and with further development of reading ability but with a greater emphasis on active skills in speaking and writing.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

GERM 2B. Intermediate German. 4 Units
Prerequisite(s): GERM 2A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Spring only
Continuation of GERM 2A with greater emphasis on skills in writing.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

GERM 5A. German Language Practice. 3 Units
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring
Practice with German conversation and vocabulary; supervised individual and small-group instruction designed to develop German vocabulary, including conversation and listening skills at an intermediate level.
Note: Meets the Foreign Language Graduation Proficiency Requirement. May be taken for credit four times.

GERM 100. Advanced German Grammar. 3 Units
Term Typically Offered: Fall, Spring
Study of grammar and style and their practical application in writing and speaking.

GERM 105. Advanced German Language Practice. 3 Units
Term Typically Offered: Spring only
Supervised individual and small-group practice for upper-division students desiring to improve their German language skills, especially conversation, listening and vocabulary. Some written work may be assigned. May be taken for credit three times, but may count only once for major or minor credit.

GERM 140. Heroes, Dragons and Quests. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only
Exploration of the heroic adventures of the medieval knights in their quests for fame and love, with special attention to the bridal quest and the roles of their "ladies": their social, political, and economic position, and their impact on life in the Middle Ages. Discussions will be based on the reading of selected Middle High German works in English translation.
Note: No German language requirement.

GERM 141. German Mythology and Legend. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only
Exploration of Germanic myth and legend and their impact on art and literature. Readings in English.
Note: No German language requirement.

GERM 142. German Folk Literature, Legend, and Lore. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only
Study of the traditional folk literature; fairy tales, folk tales, legends, ballads and folk songs; of the German-speaking people, their holiday traditions, festivals and social customs. Readings in English.
Note: No German language requirement.

GERM 143. King Arthur and the Knights of the Round Table in Germany. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only
Study of King Arthur and the knights of the Round Table in the German medieval romances read in English translation.
Note: No German language requirement. Course will be offered every two years.

Contact Information
Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051
(916) 278-6333
Department of World Languages & Literatures Website (http://www.csus.edu/wll/)

Note: Continuation of GERM 2A with greater emphasis on skills in writing.

Term Typically Offered:
- Fall only
- Fall, Spring
- Spring only

General Education Area/Graduation Requirement:
- Humanities (Area C2)

Prerequisite(s):
- GERM 1B or instructor permission.
- GERM 2A or instructor permission.
- GERM 2A or instructor permission.

Notes:
- Meets the Foreign Language Graduation Proficiency Requirement.
- May be taken for credit four times.
- May be taken for credit three times, but may count only once for major or minor credit.
- No German language requirement.
- Meets the Foreign Language Graduation Proficiency Requirement.
GERM 150. German Civilization: Beginning to 16th Century. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Historical, social, and artistic forces in German civilization from the time of the Great Migrations to the Reformation. All readings and lectures in English.

GERM 151. German Civilization: 17th Century to Present. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Historical, social, and artistic forces in German civilization from the Reformation through the 20th century. All readings and lectures in English.

GERM 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in German and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses the language skills developed through previous study of German. The project may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. May be taken more than once for credit.

Credit/No Credit

GERM 195. Fieldwork: Tutoring. 1 - 3 Units
Prerequisite(s): Native/near-native fluency in German; upper division status; instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division students of German under supervision of instructor. May be taken for credit more than once.

Credit/No Credit

GERM 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of instructor supervising the work.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Open only to students who appear competent to carry on independent study.

Credit/No Credit

Minor in German

Units required for Minor: 12 upper division units.

Program Description

Courses in German encompass the study of German language, literature, and culture. Language study begins with the imparting of the four basic language skills, namely, speaking, aural comprehension, reading, and writing. The teaching of these skills is provided as part of programs in liberal arts, in general education and in professional training, as well as a service for other degree programs.

The imparting of the basic language skills is the first and necessary step toward what is actually the liberal arts core of our curriculum: the upper division offerings. It is through the advanced language, literature, and culture courses that the students become familiar with the intricacies of another language and with the literary and cultural contributions made by the people who speak it.

Students who are considering the study of German should talk to a German faculty advisor. Each student minoring in German is assigned an advisor upon entry into the program. For assistance in obtaining an advisor, contact the Foreign Language Department office.

Program Requirements

Units required for Minor: 12 upper division units.

Note: Students are required to meet with an advisor for course selection.

German Studies Options

No new majors are being accepted into the German BA at this time. Please consult a German Faculty Advisor for information regarding meeting subject matter certification requirements in preparation for a teaching credential and/or a special major in German with one year of study in Germany.

Additional Information

- Residence Requirement: Transfer students and students participating in International Programs must complete at least 6 upper-division units in German at Sacramento State.
- Study in Germany: Students are urged to participate in a study-abroad program through California State University International Programs.
- Credit by Examination: A maximum of 16 units in Foreign Language studies may be earned through examination, of which only 8 units may be in German.

Subject Matter Program

Program Description

Courses in German encompass the study of German language, literature, and culture. Language study begins with the imparting of the four basic language skills, namely, speaking, aural comprehension, reading, and writing. The teaching of these skills is provided as part of programs in liberal arts, in general education and in professional training, as well as a service for other degree programs.

The imparting of the basic language skills is the first and necessary step toward what is actually the liberal arts core of our curriculum: the upper division offerings. It is through the advanced language, literature, and culture courses that the students become familiar with the intricacies of another language and with the literary and cultural contributions made by the people who speak it.

Candidates for a teaching credential in German must also complete the Professional Education Program in addition to other requirements for a teaching credential. Consult the German credential advisor for details and contact the Teacher Preparation Program Office, Eureka Hall 216, (916) 278-6403 for application procedures and requirements.

Note: A minor in another subject which can lead to a Supplementary Teaching Credential is strongly recommended.

German Study Options

No new majors are being accepted into the German BA at this time. Please consult a German Faculty Advisor for information regarding meeting subject matter certification requirements in preparation for a
teaching credential and/or a special major in German with one year of study in Germany.

**Additional Information**
- **Residence Requirement:** Transfer students and students participating in International Programs must complete at least 6 upper-division units in German at Sacramento State.
- **Study in Germany:** Students are urged to participate in a study-abroad program through California State University International Programs.
- **Credit by Examination:** A maximum of 16 units in Foreign Language studies may be earned through examination, of which only 8 units may be in German.

**Italian**

*College of Arts and Letters*

**Program Description**
The Italian program offers its students a strong foundation in Italian language, literature, cinema, and civilization. Students who concentrate on Italian studies may teach in secondary schools, be admitted to graduate school, work in translating and interpreting firms, or work at the national or international level for Italian firms or American firms dealing with Italy. Statistics show that Sacramento State graduates are in graduate programs, are teaching Italian, or are working in international programs, using their preparation from the Sacramento State Italian program.

**Degree Program**

Minor in Italian (p. 336)

**Special Features**
- Students may enroll for a junior year abroad with the CSU International Program in Florence, for which they may receive units toward graduation.
- By enrolling in fieldwork courses, students can tutor or teach in local parochial schools.
- Students interested in further advanced study in Italian language and culture may design a Special Major in Italian by consulting program faculty and spending one year undergoing intensive language study in Italy. Policies relating to the special major are discussed in this catalog.

**Contact Information**

Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051
(916) 278-6333
Department of World Languages & Literatures Website (http://www.csus.edu/wll/)

**Faculty**

CARLE, BARBARA

**ITAL 1A. Elementary Italian.** 4 Units
Term Typically Offered: Fall only
Focuses on the development of the four basic skills (understanding, speaking, reading, writing) through the presentation of many cultural components (two per week) which illustrate the Italian "modus vivendi" social issues, family, food, sports, etc.

**ITAL 1B. Elementary Italian.** 4 Units
Prerequisite(s): ITAL 1A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring
Continuation of ITAL 1A with greater emphasis on reading, writing. Addition of one reader which contains more cultural material (geography, political issues, government, fashion, etc.).

**ITAL 2A. Intermediate Italian.** 4 Units
Prerequisite(s): One year college Italian or suitable score on placement exam.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall only
Intermediate course in the Italian language with emphasis on speaking, reading and writing ability; review of grammar; discussions and compositions in Italian. Meets the Foreign Language Graduation Proficiency Requirement.

**ITAL 2B. Intermediate Italian.** 4 Units
Prerequisite(s): ITAL 2A or suitable score on placement exam.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring
Continuation of ITAL 2A. Meets the Foreign Language Graduation Proficiency Requirement.

**ITAL 102. Italian Advanced Conversation.** 3 Units
Prerequisite(s): ITAL 2B or instructor permission.
Term Typically Offered: Fall, Spring
Designed to develop oral fluency through free discussion on prepared topics, and supervised practice to develop audio-lingual skills at the advanced level. Course conducted in Italian. May be taken for credit twice.

**ITAL 103. Advanced Grammar and Composition.** 3 Units
Prerequisite(s): ITAL 2B or equivalent.
Term Typically Offered: Fall, Spring
Study of grammar and style and their application in oral and written exercises, in translations and in compositions.

**ITAL 104A. Introduction to Italian Cinema I.** 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
Italian Cinema from the 1940’s to its Golden Period in the 1960’s through the 1970’s. Films will be viewed in their cultural, aesthetic and/or historical context. Readings and guiding questionnaires will help students develop appropriate viewing skills. Films will be shown in Italian with English subtitles.
ITAL 104B. Introduction to Italian Cinema II.  3 Units
Term Typically Offered: Fall, Spring
Focuses on Italian Cinema from the 1980’s and the 1990’s. The "New Generation" of Italian Directors will be considered (Nanni Moretti, Gabriele Salvatores, Maurizio Nichetti, Giuseppe Tornatore, Roberto Benigni, Liliani Cavani, Fiorenza Infascelli, Francesca Archibugi, etc.) as well as current productions. Films will be shown in Italian with English subtitles.

ITAL 110. Introduction to Italian Literature I.  3 Units
Prerequisite(s): Upper division status and instructor permission.
Term Typically Offered: Fall only
Beginning and major developments of the literature of Italy from the Middle Ages through the Baroque period of the 17th Century. Analyzes the literary movements with emphasis on their leading figures, discussion of literary subjects, instruction in the preparation of reports on literary, biographical and cultural topics. Taught in Italian.

ITAL 111. Introduction to Italian Literature II.  3 Units
Prerequisite(s): Upper division standing and instructor permission.
Term Typically Offered: Fall, Spring
Major developments in the literature of Italy from the Enlightenment movement of the 18th Century through the 20th Century. Analysis of the literary movements with emphasis on their leading figures, discussion of literary subjects, instruction in the preparation of reports on literary, biographical, and cultural topics. Taught in Italian.

ITAL 130. Italian Civilization: The Dialogue Form It’s Origins and European Context.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Focus on Italian civilization in a Mediterranean context. Allows students to develop a critical understanding of the dialogue in the context of Italian and Western Civilization, from its origins in Ancient Egypt and Greece, to its flowering in the Renaissance and its return during the Enlightenment, to its endurance in modern times. Issues emphasized are philosophical and literary movements in their historical contexts. Socratic dialogue and other related genres, the dialogue as a typical Renaissance form with a variety of perspectives (feminine, poetic, satirical, etc.) the Enlightenment thinkers in Italy and France and their modern heritage are studied. Taught in English.

ITAL 131. The Italian Renaissance and Its Influence on Western Civilization.  3 Units
Term Typically Offered: Fall, Spring
Taught in English, explores the phenomenon of the Italian Renaissance in its literary, artistic, religious, social, historical, scientific, and economic aspects through the analysis of the period’s major works, and through films, slides, lectures and discussions. The issues to be emphasized are the uniqueness of the Italian contribution to new ideas and values, and their influence on Western Civilization. The students will learn to recognize the sources and the effects of the Italian Renaissance within the integrated context of Western culture and various fields of knowledge.

ITAL 194. Field Experience/Internship.  1 - 3 Units
Prerequisite(s): Intermediate competency in Italian and instructor permission.
Term Typically Offered: Fall, Spring
Directed fieldwork in a project which uses the language skills developed through previous study of Italian. The projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. Can be taken more than once for credit.
Credit/No Credit

ITAL 195. Fieldwork - Tutoring.  1 - 3 Units
Prerequisite(s): Student with native or near-native fluency in Italian and upper division status; or instructor permission.
Term Typically Offered: Fall, Spring
Tutoring of lower division Italian students, under the supervision of an instructor. Three hours of tutoring per week for each unit.
Note: May be repeated until a maximum of 6 units is reached.
Credit/No Credit

ITAL 199. Special Problems.  1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading.
Note: Departmental petition required.
Credit/No Credit

Minor in Italian
Total units required for Minor: 12

Program Description
The Italian program offers its students a strong foundation in Italian language, literature, cinema, and civilization. Students who concentrate on Italian studies may teach in secondary schools, be admitted to graduate school, work in translating and interpreting firms, or work at the national or international level for Italian firms or American firms dealing with Italy. Statistics show that Sacramento State graduates are in graduate programs, are teaching Italian, or are working in international programs, using their preparation from the Sacramento State Italian program.

Additional Information
- Placement in Italian Courses: Students should consult an advisor in Italian regarding the level at which to begin college Italian, as well as the choice and sequence of courses to take. Students who studied Italian in high school must take a placement test. Arrangement for the placement test should be made with an advisor in Italian.
- Transfers: Students from other colleges must have their pattern of courses assessed by a Department advisor and complete at least one upper division Italian course in residence before the Department can approve a program.
- Credit by Exam: A maximum of 16 units in foreign language studies may be challenged, only 12 of which may be in Italian.
- Junior Year in Italy: Students planning to apply for admission to the overseas program should consult the Italian advisor and the Sacramento State Office of Global Education, Lassen Hall 2304, (916) 278-6686, for information.
Program Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ITAL 104A</td>
<td>Introduction to Italian Cinema I</td>
<td>3</td>
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<tr>
<td>ITAL 110</td>
<td>Introduction to Italian Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ITAL 111</td>
<td>Introduction to Italian Literature II</td>
<td>3</td>
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<tr>
<td>ITAL 130</td>
<td>Italian Civilization: The Dialogue Form It's Origins and European Context</td>
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Total Units 12

The above requirements may be substituted as follows:

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<td>Introduction to Italian Cinema I</td>
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<tr>
<td>or ITAL 102</td>
<td>Italian Advanced Conversation</td>
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<td>Introduction to Italian Literature I</td>
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<tr>
<td>or ITAL 130</td>
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<tr>
<td>or ITAL 104A</td>
<td>Introduction to Italian Cinema I</td>
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<td>or ITAL 131</td>
<td>The Italian Renaissance and Its Influence on Western Civilization</td>
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Japanese

College of Arts and Letters

Program Description

A working knowledge of Japanese is increasingly becoming an important tool in the world of international business and foreign affairs; hence Sacramento State offers a minor program in the Japanese language. Coursework in Japanese may be applied toward other specially designed minors and majors such as Asian Studies, Anthropology, Humanities and Religious Studies, International Business, and International Affairs.

Degree Program

Minor in Japanese (p. 338)

Contact Information

Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051
(916) 278-6333
Department of World Languages & Literatures Website (http://www.csus.edu/wll/)

Faculty

MASUYAMA, KAZUE
VASSIL, KRISTINA

JAPN 1A. Elementary Japanese. 5 Units
Term Typically Offered: Fall only

Develops elementary spoken Japanese, reading and writing in Kana and Kanji, and the practical skills required to effectively use the modern language. Emphasis on the culture, customs, and traditions of Japan.

JAPN 1B. Elementary Japanese. 5 Units
Prerequisite(s): JAPN 1A or instructor permission.

General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Spring only

Continuation of JAPN 1A, with emphasis on speaking, vocabulary, reading, grammar, speech patterns, and cultural knowledge. The Kana and Kanji writing systems, geography, and aspects of Japanese customs and manners are included.

JAPN 1C. Accelerated Elementary Japanese. 8 Units
This is an intensive introductory Japanese language course equivalent to one year of first-year Japanese (JAPN 1A and JAPN 1B) concentrated in one semester. Class meets four times a week for two hours a period and progresses at an accelerated pace. The course provides a solid foundation in the four language skills—listening, speaking, reading, and writing. In addition, students will acquire cultural knowledge necessary for appropriate communication and smooth functioning in Japanese society. Students enrolling in JAPN 1C must be able to read and write hiragana and katakana, the two basic phonetic syllabaries.

JAPN 2A. Intermediate Japanese. 4 Units
Prerequisite(s): JAPN 1A, JAPN 1B; or equivalent.

General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall only

Emphasis on speaking, reading, and grammatical skills through dialogues, discussions, and reading. Meets the Foreign Language Graduation Proficiency Requirement.

JAPN 2B. Intermediate Japanese. 4 Units
Prerequisite(s): JAPN 2A or equivalent.

General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of JAPN 2A. Further development of speaking, reading, grammar, and composition skills. Meets the Foreign Language Graduation Proficiency Requirement.

JAPN 110. Introduction to Japanese Literature. 3 Units
Prerequisite(s): JAPN 2B or instructor permission.
Term Typically Offered: Spring only

Introduction to Japanese literature from the 10th century to the present. The various forms of Japanese classic and contemporary literature will be surveyed through the selective reading of representative works. Class will be conducted in both Japanese and English.
JAPN 116A. Third Year Japanese 1 - Language and Culture of Japan. 4 Units

**Prerequisite(s):** JAPN 2B or equivalent.
**Term Typically Offered:** Fall only

This course is the first in a two-semester series in advanced (third-year) Japanese. It is designed to expose students to the practical use of advanced structures and to further develop the four language skills—listening, speaking, reading and writing. Students will also acquire cultural knowledge necessary for appropriate communication at the advanced level. Taught in Japanese. This course counts towards the Japanese Minor.

JAPN 116B. Third Year Japanese 2 - Language and Culture of Japan. 4 Units

**Prerequisite(s):** JAPN 116A or the equivalent.
**Term Typically Offered:** Spring only

This course is a continuation of JAPN116A. JAPN116B is the second in a two-semester series in advanced (third-year) Japanese. It is designed to expose students to the practical use of advanced structures and to further develop the four language skills—listening, speaking, reading and writing. Students will also acquire cultural knowledge necessary for appropriate communication at the advanced level. Taught in Japanese. This course counts towards the Japanese Minor.

JAPN 120. Japanese Civilization. 3 Units

**General Education Area/Graduation Requirement:** Humanities (Area C2)
**Term Typically Offered:** Spring only

A broad survey of Japanese civilization from ancient to contemporary times, focusing on the overarching themes of continuity and change. Exploration includes Japanese geography, traditional aesthetics, warrior ethos, rapid modernization, postwar culture, popular culture, among others. Materials drawn predominantly from the fields of literature, film, and history.

JAPN 128. Introduction to Japanese Popular Culture. 3 Units

**General Education Area/Graduation Requirement:** GE AREA D
**Term Typically Offered:** Fall, Spring

A survey of major forms of Japanese popular culture from the postwar period to the present with a focus on genre and narrative. Genres include anime, shojo manga, Jpop, popular fiction, and fashion. Among topics to be discussed are common themes, narrative form, global appeal, and fandom. Emphasis on close reading and analysis of the texts/films. No knowledge of Japanese language or culture is required.

JAPN 150. Advanced Japanese Grammar, Conversation. 3 Units

**Prerequisite(s):** JAPN 2B or instructor permission.
**Term Typically Offered:** Fall only

Review of general principles of Japanese grammar and study of advanced grammar and their application in oral and written exercises and projects such as speech, presentations, and translations.

JAPN 194. Field Experience/Internship. 1 - 3 Units

**Prerequisite(s):** Intermediate competency in Japanese and instructor permission.
**Term Typically Offered:** Fall, Spring

Directed fieldwork in a project which uses the language skills developed through previous study of Japanese. The projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. Can be taken more than once for credit.

Credit/No Credit

JAPN 195. Fieldwork -- Tutoring. 1 - 3 Units

**Prerequisite(s):** Advanced students who have native or near native fluency or upper division status, or instructor permission.
**Term Typically Offered:** Fall, Spring

Tutoring of lower division Japanese students, under the supervision of an instructor. 3 hours of tutoring per week for each unit.

Credit/No Credit

JAPN 199. Special Problems. 1 - 3 Units

**Term Typically Offered:** Fall, Spring

Individual projects, or directed reading. Open only to students competent to carry on independent study.

**Note:** Departmental petition required.

Credit/No Credit

**Minor in Japanese**

**Total units required for Minor:** 12

**Program Description**

A working knowledge of Japanese is increasingly becoming an important tool in the world of international business and foreign affairs; hence Sacramento State offers a minor program in the Japanese language. Coursework in Japanese may be applied toward other specially designed minors and majors such as Asian Studies, Anthropology, Humanities and Religious Studies, International Business, and International Affairs.

**Program Requirements**

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<tr>
<td>JAPN 110</td>
<td>Introduction to Japanese Literature</td>
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<tr>
<td>JAPN 116A</td>
<td>Third Year Japanese 1 - Language and Culture of Japan</td>
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<tr>
<td>or JAPN 116B</td>
<td>Third Year Japanese 2 - Language and Culture of Japan</td>
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<td>JAPN 150</td>
<td>Advanced Japanese Grammar, Conversation</td>
<td>3</td>
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<tr>
<td>JAPN 116B</td>
<td>Third Year Japanese 2 - Language and Culture of Japan 1</td>
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<td>JAPN 120</td>
<td>Japanese Civilization</td>
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<tr>
<td>JAPN 195</td>
<td>Fieldwork – Tutoring</td>
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</table>
Spanish

**College of Arts and Letters**

**Program Description**

A working knowledge of Spanish will enable students to communicate with one of America’s rapidly growing minority groups, as well as to benefit extensively from travel to foreign countries. Most coursework lends itself to a practical acquisition of the necessary language skills for effective communication.

Coursework at the upper division and graduate level is equally distributed among four areas: linguistics, culture, Peninsular literature, and Hispanic American literature. Students with career plans in teaching, bilingual programs, translation and diplomatic services, as well as careers in public service requiring knowledge of Spanish, will find a balanced curriculum available at Sacramento State. The programs in Spanish also serve those students who plan on continuing their studies at the doctorate level by providing a thorough academic background in the language.

Students interested in Bilingual/Crosscultural programs should also contact the College of Education (916) 278-6840 for more details.

Many students find that the acquisition of skills in Spanish is a valuable adjunct to their career goals in other areas such as business administration, public administration, international relations, etc.

**Degree Programs**

<table>
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<tr>
<th>Program Type</th>
<th>Details</th>
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<tbody>
<tr>
<td>BA in Spanish</td>
<td>(p. 344)</td>
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<tr>
<td>Minor in Spanish</td>
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<tr>
<td>Subject Matter Program</td>
<td>(p. 347)</td>
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<tr>
<td>HealthSPAN Certificate Program</td>
<td>(p. 345)</td>
</tr>
<tr>
<td>MA in Spanish</td>
<td>(p. 345)</td>
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</table>

**Career Possibilities**

International Business Personnel · Trade and Commerce · Export/Import · Interpreter/Translator · Banking Representative · Buyer/Sales Representative · Foreign/Diplomatic Service · Airlines Personnel · Travel Industry · Media Personnel/Foreign Correspondent · Public Relations · U.S. Immigration/Customs · U.S. Information Agency · Peace Corps · Language Teacher · Bilingual/Foreign Secretary · Foreign Publications/Textbook Editor · Research Assistant · Bilingual: Counselor, Social Worker, Civil Service, Law Enforcement Officer, Medical/Health Worker, Realtor, IRS/Franchise Tax Board · Court Interpreter

**Contact Information**

Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051

(916) 278-6333
Department of World Languages & Literatures Website (http://www.csus.edu/wll/)

**Faculty**

BARANOWSKI, EDWARD
BOTA, MIGUEL
FLECK, JONATHAN
KIM, EUISUK
MAYBERRY, MARIA
ROMERO, BRENDA

**SPAN 1A. Elementary Spanish.** 4 Units

Term Typically Offered: Fall, Spring

Beginning Spanish language with primary emphasis on the development of audio-lingual skills. Attention will also be given to the interrelatedness of language and civilization and culture. Additional attention will be given to the development of reading and writing. Students will be expected to spend several hours per week in the language laboratory. Not recommended for students with any previous study of Spanish.

**SPAN 1B. Elementary Spanish.** 4 Units

Prerequisite(s): SPAN 1A, or instructor permission.

General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)

Term Typically Offered: Fall, Spring

Continuation of SPAN 1A with a greater emphasis on the development of speaking, reading, writing, and listening skills. Cultural knowledge continues to be an important component: elements of Hispanic character, customs, and the way in which the Spanish and Latin American peoples view themselves and others in the world is studied.

**SPAN 1C. Intensive Elementary Spanish.** 6 Units

Prerequisite(s): SPAN 1A, or instructor permission.

General Education Area/Graduation Requirement: Foreign Language Graduation Requirement

Term Typically Offered: Fall, Spring

This course emphasizes a rapid development of the four language skills—speaking, reading, writing, and listening—covered in the first two semesters of university Spanish. Cultural knowledge is also an important component of this course, and elements of Hispanic character, customs, and the way in which the Spanish and Latin American peoples view themselves and others in the world will be studied. Recommended for students who have had some previous study of Spanish, but need a quick review of the structures covered in the first two years of high school Spanish or the equivalent.

Graduate Program in Spanish Information (http://www.csus.edu/wll/spanish/ma-in-spanish/graduate-program.html)
SPAN 2A. Intermediate Spanish. 4 Units
Prerequisite(s): One year of college Spanish, or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Oral, auditory, and written practice based on more advanced dialogue material and on short stories, plays, and the like. Attention to the development of reading fluency and to the extension of both active and passive vocabulary. Meets the Foreign Language Graduation Proficiency Requirement.

SPAN 2B. Intermediate Spanish. 4 Units
Prerequisite(s): SPAN 2A, suitable score on placement exam, or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of SPAN 2A. Meets the Foreign Language Graduation Proficiency Requirement.

SPAN 6A. Intermediate Spanish for Professionals I. 4 Units
Prerequisite(s): Three years of High School Spanish or instructor permission.
Term Typically Offered: Fall only

Continuation of SPAN 6A. Students continue to practice conversational, reading and written practice based on dialogue material, presentations, and the like at the intermediate level of Spanish. The course includes specialized themes related to the professions, such as healthcare and related fields. Meets the Foreign Language Graduation Proficiency Requirement.

SPAN 6B. Intermediate Spanish for Professionals II. 4 Units
Prerequisite(s): SPAN 6A
Term Typically Offered: Spring only

Continuation of SPAN 6A. Students continue to practice conversational, reading and written practice based on dialogue material, presentations, and the like at the intermediate level of Spanish. The course includes specialized themes related to the professions, such as healthcare and related fields. Meets the Foreign Language Graduation Proficiency Requirement.

SPAN 7. Spanish Reading Proficiency. 3 Units
Prerequisite(s): SPAN 1A or two years of high school Spanish.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Designed to improve Spanish reading proficiency. Students will acquire the ability to understand various types of materials written in Spanish (e.g. news items, personal correspondence, technical material, short stories); follow essential points and ideas of special interest or knowledge. Students will demonstrate Spanish reading comprehension by their ability to translate and answer content questions in Spanish as well as English.

SPAN 8A. Intermediate Spanish for Criminal Justice I. 4 Units
Prerequisite(s): Three years of High School Spanish or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Conversational, reading and written practice based on dialogue material, presentations, and other activities at the intermediate level of Spanish. The course includes specialized themes related to the Criminal Justice professions and related fields. Meets the Foreign Language Graduation Proficiency Requirement.

SPAN 8B. Intermediate Spanish for Criminal Justice II. 4 Units
Prerequisite(s): SPAN 8A
Term Typically Offered: Fall, Spring

Continuation of SPAN 8A to develop conversational, reading and written skills based on dialogue material, presentations, and other activities at the intermediate level of Spanish. The course includes specialized themes related to the Criminal Justice professions or related fields. Meets the Foreign Language Graduation Proficiency Requirement. Field Trip(s)
Note: As part of this course, students will pay a fee to take the Spanish Proficiency Exam for assessment purposes.

Field trip(s) may be required.

SPAN 42. Conversation In Spanish. 3 Units
Prerequisite(s): SPAN 2B or equivalent, or instructor permission.
Term Typically Offered: Fall, Spring

Conducted in Spanish, will further develop the audio-lingual skills that the students have acquired in their early Spanish language training. Emphasis will be placed on maintaining ideas and concepts in actual conversation situations, taken from topics of most interest to students.

SPAN 47. Introduction to Composition and Grammar Review. 3 Units
Prerequisite(s): SPAN 2B or equivalent.
Term Typically Offered: Fall, Spring

Develops the necessary skills to write with clarity, precision, and style. It emphasizes the proper use of the accents and the correct use of grammar.

SPAN 100. Introduction to the Study of Hispanic Literature. 3 Units
Prerequisite(s): SPAN 47.
Term Typically Offered: Fall, Spring

Introduction to literary theory and a practical application of the techniques of literary criticism.

SPAN 102. Spanish Phonetics. 3 Units
Prerequisite(s): SPAN 47 or equivalent.
Term Typically Offered: Fall, Spring

Study of the sound system of Spanish with some attention to comparison with English and the physiology of sounds. Drills to develop good pronunciation.
Study of the specific components of Spanish grammar with particular emphasis on the Spanish verbal system, the subjunctive, and other problematic aspects of grammar. Will be of particular interest to those planning to teach Spanish as well as to the Spanish-speaking students.

SPAN 106. Advanced Spanish Composition. 3 Units
Prerequisite(s): SPAN 103 and completion of all lower division requirements.
Term Typically Offered: Fall, Spring

Increased practice in writing with emphasis on sentence and paragraph structure, and compositions to effectively convey meaning and ideas. Attention will be given to narrative, descriptive, expository prose, and dialogue, as well as to letters and other forms of written communication.

SPAN 110. Survey of Spanish Literature to 1800. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Fall only

Advanced readings, lectures, and discussions dealing with a panoramic view of Spanish literature from early works through the Golden Age up to the 1800s.

SPAN 111. Survey of Spanish Literature from 1800 to the Present. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Continuation of SPAN 110; deals with literature from the Neoclassic period to the contemporary. Readings taken from works and genres of this period.

SPAN 113. Latin American Literature, Beginnings to Modernism. 4 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Fall only

Study of the major writers and trends in Latin American literature from beginnings until Modernism.

SPAN 114. Latin American Literature, Modernism to Present. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Study of the major writers and trends in Latin American literature from Modernism to the present.

SPAN 115. Magical Realism. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Magic and the wonderful infra-mythical world of major contemporary Latin America writers are explored in this in-depth study of Magical Realism. Short stories and novels are examined as they create a marvelous "other world" or reality. Authors studied include Gortazar, Carpentier, Bombal, Borges, Rulfo, Garcia Marquez, Fuentes, Sainz, Esquivel, and others.

SPAN 121. Spanish For Professionals. 3 Units
Prerequisite(s): SPAN 2A or equivalent.
Term Typically Offered: Fall, Spring

Designed to teach present and future professional in criminal justice and related fields, including Social Work and Sociology, the necessary vocabulary and structures for effective communication in interviews, visits, etc. Some attention to local dialect differences.

SPAN 121J. Spanish Language For Criminal Justice Professionals. 3 Units
Prerequisite(s): SPAN 8A and 8B, or instructor permission.
Term Typically Offered: Fall, Spring

Designed to teach present and future professional in criminal justice and related fields, including Social Work and Sociology, the necessary vocabulary and structures for effective communication in interviews, visits, etc. Some attention to local dialect differences. Readings, visuals, and discussion of Latino/Hispanic culture and cross-cultural practices variation within Latin America and Spain as related to conducting interviews and writing reports in the criminal justice fields and other professions.

SPAN 123. Topics in Spanish Literature. 3 Units
Prerequisite(s): SPAN 100
Term Typically Offered: Fall only

Topics in literature from Spain offered as needed. Typical topics are: Spanish novel through the Golden Age; 19th and 20th century Spanish novel; Spanish drama from the Middle Ages to the Golden Age; Spanish Contemporary drama.

Note: May be repeated for credit provided topic is different.

SPAN 125. Introduction to Spanish-English Translation and Interpreting. 3 Units
Prerequisite(s): Spanish 47 or Instructor Consent
Term Typically Offered: Fall only

Teaches foundational technical and critical skills that bilingual Spanish-English speakers need to embark on the path to successful written translation and spoken interpreting in fields such as healthcare, law, education, business, and community service. Students engage theoretical readings, authentic case studies, and hands-on practice. By the end of the semester, students develop critical observation skills and build confidence to explore specialization in translation and/or interpreting.

SPAN 126. Spanish-English Medical Interpreting. 3 Units
Prerequisite(s): SPAN 6B or SPAN 125
Term Typically Offered: Spring only

The proposed course teaches technical and critical skills needed to address the growing demand for qualified Spanish-English medical interpreters. In addition to meeting community needs, the course increases career opportunities for bilingual speakers of Spanish and English by fulfilling the prerequisite for certification through the National Board of Certification for Medical Interpreters. The course adds an option for students pursuing the Spanish major, Spanish minor, and HEALS certificate (Form B expected Fall 2023) who wish to focus on interpreting.

Note: Teaches the technical and critical skills needed for successful Spanish-English interpreting in the field of medicine. Students engage theoretical readings, glossaries of medical terminology, authentic case studies, and hands-on practice. Includes preparation for certification exams.
SPAN 129. Spanish Civil War.  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall, Spring  
In-depth examination of the Spanish Civil War (1936-1939) focusing on its social, political, and cultural contexts. The course also examines the war's historical origins, immediate aftermath and implications for understanding modern Spain.  
Cross listed: HIST 136.

SPAN 130. Contemporary Mexican Literature.  
Term Typically Offered: Spring only  
Inquiry into the significance of the individual in contemporary Mexican culture and his greater relationship to the cosmos as seen through his literature. May be of particular interest to the Mexican American.

SPAN 131. Special Topics in Latin American Literature.  
Term Typically Offered: Spring only  
Topics in literature from Latin America offered. Class will focus on marginalized literary genres, places, or peoples. Possible class topics include: Caribbean Literature, Female Writers from Latin America, Afro Latinx Voices, Indigenous Authors from Latin America, Latin American Playwrights, etc.  
Note: May be repeated for credit provided topic is different.

SPAN 134. The Short Story in Latin America.  
Term Typically Offered: Spring only  
Development of the short story in Latin America with some introductory study of the North American short story by way of comparison. Selected readings from different countries where the short story has had an important development. Emphasis on the contemporary short story.

SPAN 142. Advanced Spanish Conversation.  
Term Typically Offered: Fall, Spring  
Increases language fluency and acquisition of new vocabulary through intensive conversational practice, based on topics of contemporary interest.

SPAN 151. Civilization and Culture of Hispanic America.  
Term Typically Offered: Fall, Spring  
Readings, visuals, and discussion of the history, geography, anthropology, sociology, politics, economics, folklore, and artistic expression of the nations of Hispanic America.

SPAN 152. Civilization and Culture of Spain.  
Term Typically Offered: Fall, Spring  
Reading and discussion of the history, geography, anthropology, sociology, political science, economics, folklore, music, art, and the dance as these areas relate to Modern Spain.

SPAN 153. Civilization and Culture of Mexico.  
Term Typically Offered: Fall, Spring  
Reading and discussion of the history, geography, anthropology, sociology, political science, economics, folklore, music, art, and the dance of Mexico.

SPAN 159. Cultures of Latin America for the Professions.  
Term Typically Offered: Spring only  
Readings, visuals, and discussion of Latino/Hispanic culture and cross-cultural practices variation within Latin America as related to healthcare and other professions such as Criminal Justice, Social Work, Sociology, and Psychology.  
Note: Students will need to pay a fee to cover for the cost of the Spanish Proficiency Exam, which will be used for Assessment Purposes.

SPAN 159J. Cultures of Spain and Latin America for the Professions in Criminal Justice.  
Term Typically Offered: Fall, Spring  
Readings, visuals, and discussion of Latino/Hispanic culture and cross-cultural practices variation within Latin America and Spain as related to Criminal Justice and other professions, including Social Work and Sociology.

SPAN 194. Field Experience/Internship.  
Term Typically Offered: Intermediate competency in Spanish and instructor permission.  
Can be taken more than once for credit.

SPAN 195. Internship/Field Experience.  
Term Typically Offered: Intermediate competency in Spanish and instructor permission.  
Can be taken more than once for credit.
SPAN 199. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of instructor supervising work, the advisor, and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work, and enrollment will be limited to hardship cases.

Credit/No Credit
SPAN 201A. General Spanish Linguistics. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Depending upon the interest of the group, one topic of Spanish Linguistics will be chosen. The emphasis may be Comparative, Popular Spanish divergencies, or psycho- or socio-linguistics, especially the development of Mexican-American Spanish and the learning problems of bilinguals.

SPAN 201B. History of the Spanish Language. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Historical evolution of the Spanish language from Vulgar Latin to the present day with special emphasis on the phonetic and morphological changes involved in this evolution. Some attention will be devoted to Old Spanish readings as well as the differences between Old and Modern Spanish. Knowledge of Latin is helpful, but not required.

SPAN 201C. Contrastive Grammatical Structures of Spanish and English. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Analyzes the major differences between the grammatical system of Spanish and English, with particular emphasis on those areas of contrast which are vital to the teacher.

SPAN 201D. Applied Spanish Linguistics. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Application of linguistic theory, principally to the areas of language teaching and learning acquisition. Occasionally the application of linguistics to other fields may be examined.

SPAN 220A. Spanish Literature in the Middle Ages. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 220B. Spanish Literature in the Golden Age. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 220C. Spanish Literature in the 18th and 19th Centuries. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 220D. Contemporary Spanish Literature. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 224A. Spanish-American Literature to 1825. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Latin American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Beginnings of Spanish American Literature from the period of discovery and conquest through the colonial period until the end of the Wars of Independence in 1825. Covers the Renaissance, Baroque, and Neo-Classical Periods.

SPAN 224B. Spanish-American Literature, 1825 to 1880. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Latin American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Independence (1825) through 1880. Covers the following movements: Romanticism, Realism, and Naturalism and deals with selected authors.

SPAN 224C. Spanish-American Literature, 1880 to 1945. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Spanish American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 224D. Spanish-American Literature, 1945 to Present. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Spanish American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 250A. Civilization and Culture of Spain. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring

Seminar examining aspects of the national character and personality of Spain as revealed through Hispanic social and literary studies from prehistory to 1700.

SPAN 250B. Civilization and Culture of Modern Spain. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring

Seminar examining aspects of the character and personality of the various political, geographical, and cultural groups of Spain as revealed through the social and literary studies of Spain from 1700 to the present.
Program Description

A working knowledge of Spanish will enable students to communicate with one of America’s rapidly growing minority groups, as well as to benefit extensively from travel to foreign countries. Most coursework lends itself to a practical acquisition of the necessary language skills for effective communication.

Coursework at the upper division and graduate level is equally distributed among four areas: linguistics, culture, Peninsular literature, and Hispanic American literature. Students with career plans in teaching, bilingual programs, translation and diplomatic services, as well as careers in public service requiring knowledge of Spanish, will find a balanced curriculum available at Sacramento State. The programs in Spanish also serve those students who plan on continuing their studies at the doctorate level by providing a thorough academic background in the language.

Many students find that the acquisition of skills in Spanish is a valuable adjunct to their career goals in other areas such as business administration, public administration, international relations, etc.

Minimum Grade Requirement

All Spanish majors must earn a grade of "C" or better in all courses counted toward the major. SPAN 42 and SPAN 142 may be taken by challenge exam for Credit/No Credit only provided that student enrolls in course.

Required Lower Division Courses

It is assumed that Spanish majors will have completed the equivalent of college level elementary and intermediate Spanish in high school, at a community college, or by completing SPAN 2B at Sacramento State, prior to beginning upper-division courses.

\[1]\text{Course also satisfies General Education (GE)/Graduation Requirement.}\]

Study Abroad Programs

Students having a 2.75 GPA average overall are eligible to apply for admission to the CSU International Programs in a Spanish-speaking country such as Chile, Mexico, or Spain for their junior or senior years or during graduate studies. Spanish skills must be sufficiently developed to permit satisfactory performance in a Spanish-language university; planning from the beginning of the freshman year is advisable. Programs are also available for beginning students in Spain and Mexico. For details, contact International Programs and Global Engagement and consult a member of the Spanish faculty about developing your language skills.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 47</td>
<td>Introduction to Composition and Grammar Review 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Required Lower Division Courses (3 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Required Upper Division Courses (36 Units)</td>
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<tr>
<td></td>
<td>Electives (3 Units)</td>
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<tr>
<td>SPAN 42</td>
<td>Conversation In Spanish</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 115</td>
<td>Magical Realism</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 121</td>
<td>Spanish For Professionals</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 123</td>
<td>Topics in Spanish Literature</td>
<td>3</td>
</tr>
</tbody>
</table>
General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (13 Units)</td>
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<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
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<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area D: The Individual and Society (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area E Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area F: Ethnic Studies (3 Units)</td>
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<td></td>
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<tr>
<td>Area F Course</td>
<td>3</td>
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<td>Total Units</td>
<td>49</td>
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</table>

Graduation Requirements (required by Sacramento State) (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area F Course - The Short Story in Latin America</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SPAN 12</td>
<td>Contemporary Mexican Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 134</td>
<td>The Short Story in Latin America</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td>42</td>
<td></td>
</tr>
</tbody>
</table>

1. It is assumed that Spanish majors will have completed the equivalent of college level elementary and intermediate Spanish in high school, at a community college, or by completing SPAN 2B at Sacramento State, prior to taking SPAN 47.

Certificate Program in Healthcare Spanish

Total units required for certificate: 17

Program Description

The HEALS Certificate Program is designed to prepare students and professionals in the healthcare fields to serve healthcare needs of the growing Spanish-speaking population in California by being able to communicate with them.

Coursework in the HEALS program lends itself to a practical acquisition of specialized medical/healthcare terminology in Spanish and Hispanic cultural competence.

Certificate Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Lower Division (8 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 6A</td>
<td>Intermediate Spanish for Professionals I</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 6B</td>
<td>Intermediate Spanish for Professionals II</td>
<td>4</td>
</tr>
<tr>
<td>Required Upper Division (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 121</td>
<td>Spanish For Professionals</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 159</td>
<td>Cultures of Latin America for the Professions</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 194</td>
<td>Field Experience/Internship</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td>17</td>
<td></td>
</tr>
</tbody>
</table>

MA in Spanish

Units required for the MA: 30

Program Description

The Master of Arts program in Spanish affords an opportunity for specialized work in Spanish linguistics, Peninsular and Latin American Literature, and in the cultures of the Spanish-speaking world. The program is of particular value to those who plan to teach Spanish at the
secondary school level (or already do so) or in a community college, and to those who plan to continue working toward a doctorate in Spanish.

Admission Requirements

Admission as a classified graduate student in Spanish requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units attempted;
- a satisfactory score on the Graduate Examination designed and administered by the Spanish Area of the Department of Foreign Languages. The student must take the Graduate Examination prior to entrance into any 200 series graduate course and must successfully pass the entire examination before being advanced to candidacy. The student may pursue graduate work while concurrently correcting any deficiencies noted as a result of the examination and must retake the exam sections failed only after the passage of one semester. Three-summer MA applicants will take the Graduate Exam during their first summer in the program and will retake any sections not passed during the second summer that they attend the program. Consult the Graduate Coordinator in Spanish regarding steps to complete this requirement; and
- completion of the following Sacramento State courses (or equivalents):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 100</td>
<td>Introduction to the Study of Hispanic Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 102</td>
<td>Spanish Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 103</td>
<td>Advanced Spanish Grammar</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>One upper division course in Peninsular Literature</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>One upper division course in Latin American Literature</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>One upper division course in Hispanic culture</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Students not meeting all these requirements may be admitted with conditionally classified graduate status and work toward the MA degree while the admission requirements are being completed. (SPAN 102 and SPAN 103 may be met by challenge examination.) Units taken to remove admission requirement deficiencies do not count toward the MA program. Any such deficiencies will be noted on a written response to the admission application.

Admission Procedures

Applications are accepted as long as room for new students exists during the application filing period. The University operates under a completion deadline system; all transcripts and materials must be received by the filing deadline of March 1st. Only completed applications will be reviewed. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines please visit the Office of Graduate Studies Website (http://www.csus.edu/gradstudies/).

At the same time, each applicant must complete a supplemental application that includes:

1. A cover letter.
2. A one-page Statement of Purpose.
3. A five-page writing sample in Spanish that was graded by an instructor.
4. Two letters of recommendation if their BA is not from Sacramento State.

Departmental recommendation for Office of Graduate Studies acceptance into the MA in Spanish program is based on overall student scholastic achievement, the number of completed prerequisites, the quality of the applicant’s writing in Spanish, and letters of recommendation.

For more admissions information and application deadlines please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/) and the Department of World Languages and Literatures website (http://www.csus.edu/wll/spanish/ma-in-spanish/master-application-guidelines.html).

A decision regarding admission will be mailed from the Office of Graduate Studies approximately 6 weeks after the completion deadline.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 18 units in the graduate program with a minimum 3.0 GPA, including at least four 200-level courses; and
- taken the Writing Placement for Graduate Students (WPG) within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

The Advancement will list all of the courses presented for the degree and must be approved by the Spanish Graduate Coordinator and the Office of Graduate Studies.

Culminating Requirement

The comprehensive exams for the MA in Spanish can be taken in November or April. Students take an exam in each of the following areas: Spanish Linguistics, Spanish Peninsular Literature, Latin American Literatures, and Hispanic Culture. A passing grade is considered to be 80% or higher, and a student may only fail one exam, which must be re-taken the following semester.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses (24 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Latin American Literature</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 113</td>
<td>Latin American Literature, Beginnings to Modernism</td>
<td>6</td>
</tr>
<tr>
<td>SPAN 114</td>
<td>Latin American Literature, Modernism to Present</td>
<td></td>
</tr>
<tr>
<td>SPAN 115</td>
<td>Magical Realism</td>
<td></td>
</tr>
<tr>
<td>SPAN 130</td>
<td>Contemporary Mexican Literature</td>
<td></td>
</tr>
<tr>
<td>SPAN 134</td>
<td>The Short Story in Latin America</td>
<td></td>
</tr>
<tr>
<td>SPAN 224A</td>
<td>Spanish-American Literature to 1825</td>
<td></td>
</tr>
<tr>
<td>SPAN 224B</td>
<td>Spanish-American Literature, 1825 to 1880</td>
<td></td>
</tr>
<tr>
<td>SPAN 224C</td>
<td>Spanish-American Literature, 1880 to 1945</td>
<td></td>
</tr>
</tbody>
</table>

Select two of the following:
Programs, translation and diplomatic services, as well as careers in public American literature. Students with career plans in teaching, bilingual among four areas: linguistics, culture, Peninsular literature, and Hispanic coursework at the upper division and graduate level is equally distributed effective communication. lends itself to a practical acquisition of the necessary language skills for benefit extensively from travel to foreign countries. Most coursework with one of America's rapidly growing minority groups, as well as to A working knowledge of Spanish will enable students to communicate Study Abroad Programs Students having a 2.75 GPA average overall are eligible to apply for admission to the CSU International Programs in a Spanish-speaking country such as Chile, Mexico, or Spain for their junior or senior years or during graduate studies. Spanish skills must be sufficiently developed to permit satisfactory performance in a Spanish-language university, planning from the beginning of the freshman year is advisable. Programs are also available for beginning students in Spain and Mexico. For details, contact International Programs and Global Engagement and consult a member of the Spanish faculty about developing your language skills. Minimum Grade Requirement All Spanish minors must earn a grade of "C" or better in all courses counted toward the minor. Required Lower Division Courses It is assumed that Spanish majors will have completed the equivalent of college level elementary and intermediate Spanish in high school, at a community college, or by completing SPAN 1A, 1B, 1C, or SPAN 2A at Sacramento State, prior to beginning SPAN 47. Program Requirements Code Title Units SPAN 47 Introduction to Composition and Grammar Review 3 Must be taken before upper-division courses in Spanish 12 units of upper-division courses from following: SPAN 100 Introduction to the Study of Hispanic Literature 3 SPAN 103 Advanced Spanish Grammar 3 One course from the SPAN 150 series 3 3 units of elective coursework from the following: SPAN 106 Advanced Spanish Composition SPAN 121 Spanish For Professionals SPAN 125 Introduction to Spanish-English Translation and Interpreting SPAN 142 Advanced Spanish Conversation SPAN 195 Internship/Field Experience (May take one unit per term for total of 3 units) 3 Total Units 15 Minor in Spanish Units required for Minor: 15, 12 of which must be upper division courses Minimum total units required for BA: 120 Program Description A working knowledge of Spanish will enable students to communicate with one of America's rapidly growing minority groups, as well as to benefit extensively from travel to foreign countries. Most coursework lends itself to a practical acquisition of the necessary language skills for effective communication. Coursework at the upper division and graduate level is equally distributed among four areas: linguistics, culture, Peninsular literature, and Hispanic American literature. Students with career plans in teaching, bilingual programs, translation and diplomatic services, as well as careers in public service requiring knowledge of Spanish, will find a balanced curriculum available at Sacramento State. The programs in Spanish also serve those students who plan on continuing their studies at the doctorate level by providing a thorough academic background in the language. Students interested in Bilingual/Crosscultural programs should also contact the College of Education (916) 278-6840 for more details. Many students find that the acquisition of skills in Spanish is a valuable adjunct to their career goals in other areas such as business administration, criminal justice, healthcare, international relations, political science, public administration. Subject Matter Program (Spanish) Program Description A working knowledge of Spanish will enable students to communicate with one of America's rapidly growing minority groups, as well as to benefit extensively from travel to foreign countries. Most coursework
lends itself to a practical acquisition of the necessary language skills for effective communication.

Coursework at the upper division and graduate level is equally distributed among four areas: linguistics, culture, Peninsular literature, and Hispanic American literature. Students with career plans in teaching, bilingual programs, translation and diplomatic services, as well as careers in public service requiring knowledge of Spanish, will find a balanced curriculum available at Sacramento State. The programs in Spanish also serve those students who plan on continuing their studies at the doctorate level by providing a thorough academic background in the language.

Students interested in Bilingual/Crosscultural programs should also contact the College of Education (916) 278-6840 for more details.

Many students find that the acquisition of skills in Spanish is a valuable adjunct to their career goals in other areas such as business administration, public administration, international relations, etc.

**Program Requirements**

Spanish majors wishing to pursue a Single Subject Teaching Credential in Spanish should contact the Spanish credential advisor to have their transcript reviewed for courses currently required for the credential program and then have single subject competency assessed. Specific course requirements are the same as for the BA in Spanish plus successful completion of a proficiency examination in Spanish. The Single Subject Credential in Spanish is valid for teaching Spanish in grades K-12.

Teaching credential candidates must also complete the Professional Education Program in addition to other requirements for a teaching credential. Consult the department credential advisor for details. You may also obtain information about the Professional Education Program from the Teacher Preparation Credentialing Office, Eureka Hall 216, (916) 278-6403.

**College of Business**

**Mission Statement**

The Sacramento State College of Business develops engaged, responsible, and inclusive leaders who enrich our communities.

**Undergraduate Program Description**

The College of Business offers a broad, professional education in Business. The Bachelor of Science program offers students a choice of 9 concentrations by which they may focus their goals. All students must choose a concentration to complete their requirements for the baccalaureate degree. Students who are uncertain about which concentration to choose are encouraged to select the General Management concentration, as it is the most comprehensive. The structure of the General Management concentration also provides an overlap with other concentrations, thus making changes in focus possible. Students who wish a more customized program may elect to complete the requirements for additional concentrations as well. For example, students may elect dual concentrations such as General Management and Management of Human Resources and Organizational Behavior. For more information about program options, contact Undergraduate Business Advising Center, Tahoe Hall 1030, (916) 278-BIZZ (2499).

The College offers Minors in Business, Human Resources Management, Marketing, Real Estate and Land Use Affairs, and Risk Management and Insurance. A Minor in Business is valuable to the student majoring in another area who wishes to supplement his/her knowledge with a business background.

For more information about the College of Business, please click here (http://www.csus.edu/cba/).

**Concentrations**


**Graduate Program Description**

The College offers several general and specialized business graduate degree programs. They include Master of Business (MBA), International Master of Business (IMBA), Master of Business for Executives (EMBA), Master of Science in Accountancy (MS/ACCY).

**Concentrations**

- MBA: Finance / Business Analytics in Healthcare/Entrepreneurship and Global Business

**Special Features**

- The College of Business is fully accredited by the AACSB International. The Association to Advance Collegiate Schools of Business.
- Operating a class schedule from 7:30 a.m. to 9:00 p.m., the College is designed to facilitate the full- and part-time student.
- Graduate academic counselors are available in the Graduate Programs Office, Tahoe Hall 1020. This office serves in all aspects of program advising and graduation evaluation approval for business students.
- The College of Business has a Business Graduate Career Services Office that serves all MBA/graduate programs. Services include individual and customized career advising, employment and internship support, and professional development events. Services also include resume and document review, interview preparation, and job seeking strategies.

**Centers And Institutes**

**Center for Small Business**

The Center for Small Business provides technical business services to business enterprises and non-profit institutions in the Sacramento area, in the areas of financial planning and budgeting, feasibility studies, market research, design of accounting systems, production planning and control, advertising strategies, capital budgeting, and management improvement programs. Gratuitous assistance is provided on a voluntary basis by students of the College with faculty members serving as experienced advisors to the students and their clients. Sharyn Gardner, Faculty Director, (916) 278-7278.

**Student Activities**

The following organizations are affiliated with the College:
Honor Societies

Beta Alpha Psi
Beta Alpha Psi is an honorary organization for Financial Information students and professionals. This includes promoting the study and practice of accounting, finance and information systems; providing opportunities for self-development, service and association among members and practicing professionals, and encouraging a sense of ethical, social, and public responsibility.

Beta Gamma Sigma
Beta Gamma Sigma is the honor society serving business programs accredited by AACSB International - The Association to Advance Collegiate Schools of Business. Membership in Beta Gamma Sigma is the highest recognition a business student anywhere in the world can receive in a business program accredited by AACSB International. Invitations are sent to qualified students during the fall and spring semesters.

Student Organizations

- Accounting Society
- American Marketing Association
- Delta Sigma Pi
- Financial Management Association
- Gamma Iota Sigma
- Human Resource Management Association
- Management Information Systems Association
- MBA Networking Association
- Student Investment Fund
- Women in Business

Contact Information

Office of the Dean
Tahoe Hall 1010
cob@csus.edu
(916) 278-6578

College of Business Website
Jean-Francois Coget, Dean
Mylah Nurse, Executive Assistant to the Dean
Cyndy LaFitte, Budget Analyst
Douglas Evans, Marketing Specialist
Ale Reiher, Administrative Coordinator
Tim Richter, Director of Development

Office of the Associate Dean for Faculty Support
Tahoe Hall 2130
(916) 278-5577

Jaydeep Balakrishnan, Associate Dean
Angela Park-Girouard, Administrative Analyst
Jeannie Hansen, Faculty Personnel Analyst

Office of the Associate Dean for Academic Programs
Tahoe Hall 2028
(916) 278-6463
Andrey Mikhailitchenko, Associate Dean
Barbara (Mei Po) Vong, Administrative Analyst
Maryam Sabet, Academic Programs Coordinator & Enrollment Specialist

Office of Student Engagement
Tahoe Hall 1030
(916) 278-BIZZ (2499)
Bonnie McDonald Beevers, Director
Sanitta Coey, Administrative Coordinator
Maggie Hansen, Program Coordinator

Undergraduate Business Advising Center
Tahoe Hall 1030
(916) 278-BIZZ (2499)
Website: https://www.csus.edu/college/business-administration/undergraduate/
Email the Undergraduate Business Advising Center (cba-ugrad@csus.edu)

Graduate Programs Office
(EPP, MPS, Grad Career Services)
Tahoe Hall 1020
Oliver Liu, Interim Director of Graduate Programs
Claire Goldsby, Graduate Programs Coordinator
Maryanne Ruperto, Administrative Coordinator
Serena Hoffman, EPP Advisor

MBA Program Services (MPS)
(916) 278-3354
Email the MBA Program Services (cba-mbaadmissions@csus.edu)
Sophie Mills, Graduate Recruitment & Admissions Coordinator
Jeanie Williams, Graduate Coordinator & MBA Advisor

Business Graduate Career Services
Tahoe Hall 2065
(916) 278-7142
Brent Bynum, Director

Accounting

College of Business

Program Description
The College of Business offers a broad professional education in Business. The Bachelor of Science program offers students a choice
of 9 concentrations by which they may focus their goals. Additionally, the COB's Business Honors program provides an alternative path to its most capable students to prepare them for management opportunities. All students must choose a concentration to complete their requirements for the baccalaureate degree. Students who are uncertain about which concentration to choose are encouraged to select the General Management concentration, as it is the most comprehensive. The structure of the General Management concentration also provides an overlap with the other concentrations, thus making changes in focus possible. Students who wish a more customized program may elect to complete the requirements for additional concentrations as well. For example, students may elect dual concentrations such as General Management and Management of Human Resources and Organizational Behavior. For information about program options, please visit our website at: Undergraduate Programs | Sacramento State (csus.edu) (https://www.csus.edu/college/business-administration/undergraduate/).

The College also offers Minors in Business, Management of Human Resources and Organizational Behavior, Marketing, Real Estate and Land Use Affairs, and Risk Management and Insurance. A Minor in Business is valuable to the student majoring in another area who wishes to supplement his/her knowledge with a business background.

Degree Programs
BS in Business Administration (Accountancy) (p. 355)
MS in Accountancy (p. 357)

Career Possibilities
Account Executive · Accountant · Auditor · Bank Examiner · Budget Analyst · Budget Officer · Certified Fraud Examiner · Certified Information Systems Auditor · Certified Internal Auditor · Certified Management Accountant · Certified Public Accountant · Chief Financial Officer · Controller · Cost Accountant · Cost Analyst · Credit Analyst · Credit Manager · Estate Planner · FBI Agent · Franchise Tax Board Agent · Government Accountant · Government Auditor · Internal Auditor · Internal Revenue Service Agent · Investment Analyst · Loan Officer · Tax Accountant · Tax Consultant · Treasurer

Contact Information
Office of the Dean
Tahoe Hall 1010
Email: cob@csus.edu
Phone: (916) 278-6578

College of Business Website (https://www.csus.edu/college/business-administration/)
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Office of Student Engagement
Tahoe Hall 1030
(916) 278-8752 (2499)
Bonnie McDonald Beevers, Director
Sanitta Coey, Administrative Coordinator
Maggie Hansen, Program Coordinator

Undergraduate Business Advising Center
Tahoe Hall 1030
(916) 278-8752 (2499)
Website: https://www.csus.edu/college/business-administration/undergraduate/ (https://www.csus.edu/college/business-administration/undergraduate/)
Email: cba-ugrad@csus.edu

Graduate Programs Office
(EPP / MPS / Grad Career Svs.)
Tahoe Hall 1020
Oliver Liu, Interim Director of Graduate Programs

Executive & Professional Programs (EPP)
(916) 278-5576
Email: cba-grad@csus.edu
Claire Goldsby, Graduate Programs Coordinator
Maryanne Ruperto, Administrative Coordinator
Serena Hoffman, EPP Advisor

MBA Program Services (MPS)
(916) 278-3554
Contact the MBA Program Services (https://www.csus.edu/college/business-administration/graduate/mba.html)
Sophie Mills, Graduate Recruitment & Admissions Coordinator
Jeanie Williams, Graduate Coordinator & MBA Advisor

Business Graduate Career Services
Tahoe Hall 2065
(916) 278-7142
Brent Bynum, Director

ACCY 1. Accounting Fundamentals. 3 Units
Prerequisite(s): Entry Level Math (ELM) test of at least 36 or a CR grade in LS 7A.
Term Typically Offered: Fall, Spring

Accounting as the basis of an information system with emphasis on concepts and assumptions underlying data accumulation for financial reports. Includes the concepts of income determination and financial position, and the accounting for various types of ownership equities.
ACCY 2. Managerial Accounting.  
Prerequisite(s): ACCY 1. 
Term Typically Offered: Fall, Spring

Use and reporting of accounting data for managerial planning, control, and decision making. Broad coverage of concepts, classification, and behavior of costs.

ACCY 111. Intermediate Accounting I.  
Term Typically Offered: Fall, Spring

In-depth knowledge of how financial information provides information about a company’s: economic resources, obligations, and owner’s equity; income and its components; and cash flows. Topics include the development and application of basic assumptions, principles and constraints underlying financial statements; the use of information derived from financial statements and the limitations of the information; and the use of accounting information to evaluate a company’s performance on investment, risk, financial, flexibility, liquidity, and operational capability. Students learn how to prepare financial statements.

ACCY 112. Intermediate Accounting II.  
Prerequisite(s): ACCY 111. 
Term Typically Offered: Fall, Spring

Application of Generally Accepted Accounting Principles to the reporting of tangible and intangible assets, liabilities, and the capital section of the balance sheet. Other topics include the reporting of stock-based compensation and earnings-per-share.

ACCY 113. Intermediate Accounting III.  
Prerequisite(s): ACCY 111. 
Term Typically Offered: Fall, Spring

Application of Generally Accepted Accounting Principles to revenue recognition and matching; pensions, leases, income taxes, accounting changes, interim financial statements, and segmental reporting. Students develop an in-depth knowledge of the preparation and the analysis of the cash flow statement.

ACCY 117. Advanced Accounting.  
Prerequisite(s): ACCY 111 and ACCY 112. 
Term Typically Offered: Fall, Spring

Specialized topics in partnership accounting; consolidated statements; foreign currency translation and financial statements.

ACCY 121. Cost Accounting.  
Term Typically Offered: Fall, Spring

Importance of the allocation of costs; the cost allocation techniques available to accountants; the techniques used by management to maintain and create enterprise value, e.g., CVP analysis; the accountant’s responsibility for the management of inventory; and the ethical consideration in internal reporting.

ACCY 122. Advanced Management Accounting.  
Prerequisite(s): ACCY 121. 
Term Typically Offered: Fall, Spring

Accountant’s responsibility to provide financial and nonfinancial information to managers; the planning techniques available to accountants; managerial control techniques that enhance the maintenance and improvement of enterprise value, and short-run and long-run analyses.

ACCY 131. Survey of Auditing, Attest, and Assurance Topics.  
Prerequisite(s): ACCY 111, ACCY 112. 
Term Typically Offered: Fall, Spring

Survey of topics in auditing as a control activity in society. Covers a variety of opportunities in the auditing profession including external auditing, internal auditing, compliance auditing, and operational auditing as well as fraud examinations. Topics include evidence and documentation, professional ethics, auditing computer systems, statistical sampling, and internal controls.

ACCY 132. Accountants’ Ethical and Professional Responsibilities.  
Prerequisite(s): ACCY 111, ACCY 112. 
Corequisite(s): ACCY 131. 
Term Typically Offered: Fall, Spring

This course addresses professional responsibilities for the accounting profession, including the development of ethical standards, ethical reasoning, AICPA and California Codes of Professional Conduct, financial reporting fraud, corporate governance, and other relevant topics.

ACCY 143. Accounting Data Analytics.  
Prerequisite(s): ACCY 112. 
Term Typically Offered: Fall, Spring

Examines the changing technological environment in accounting, and the role of data analytics in accounting. This course will help students to understand different structured and unstructured accounting data, and develop new analytic skills to make better accounting decisions. It will also improve students’ ability to conduct audit analytical procedures in accordance with financial reporting regulatory requirements.

Prerequisite(s): ACCY 111 
Term Typically Offered: Fall, Spring

Fundamentals of accounting and financial reporting for governmental units and institutions; accounting for various types of funds; accounting aspects of budgetary control.

ACCY 171. Federal Tax Procedures I.  
Prerequisite(s): ACCY 171. 
Term Typically Offered: Fall, Spring

Federal taxation concepts are used in effective decision making; a working knowledge of the concepts of gross income, deductions, tax rates, and property transactions as they pertain to C corporations, partnerships, S corporations, and individuals; and proficiency in the application of tax concepts as they pertain to business and individual taxpayers.

ACCY 172. Federal Tax Procedures II.  
Prerequisite(s): ACCY 171. 
Term Typically Offered: Fall, Spring

Business entity formation, operation, and termination and business taxation principles and concepts used in effective decision-making. Students develop the ability to understand and apply business tax principles and the critical and analytical skills that are necessary in the study and application of taxation and tax law.
### ACCY 190. International Accounting. 3 Units
**Prerequisite(s):** ACCY 111, Business Major  
**Term Typically Offered:** Fall, Spring

Accounting concepts, principles, and methods applicable to multinational transactions and global corporations. Contents include the translation of financial statements, comparative accounting systems, financial reporting, currency risk management, international accounting standards and organizations, taxation problems, and the managerial aspects of multinational transactions.

### ACCY 194. Cooperative Education Experience in Accountancy. 6 - 12 Units
**Prerequisite(s):** Minimum overall GPA of 2.75; instructor permission.  
**Term Typically Offered:** Fall, Spring

In-depth supervised work experience in accounting for the purpose of exposing the student to comprehensive accountancy experience in business, governmental, or service agencies.  
**Note:** Open to upper division students, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

### ACCY 195. Internship in Accountancy. 3 Units
**Prerequisite(s):** Completion of 15 units of upper division business courses at Sacramento State; minimum overall GPA of 2.75; instructor permission.  
**Term Typically Offered:** Fall, Spring

Supervised work experience in accountancy for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies.  
**Note:** Open to declared business administration upper division majors only, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

### ACCY 196B. Exper Offer Accountancy. 3 Units
**Prerequisite(s):** AIS 141  
**Corequisite(s):** ACCY 131  
**Term Typically Offered:** Fall, Spring

A course in Accounting and Audit Analytics examines the changing technological environment in accounting and the role of data analytics in accounting. This course will help students to understand different structured and unstructured accounting data, and develop new analytic skills to make better accounting decisions. It will also improve student's ability to conduct audit analytical procedures, in accordance with financial reporting regulatory requirements.

### ACCY 199. Special Problems in Accountancy. 1 - 3 Units
**Prerequisite(s):** Senior status or instructor permission.  
**Term Typically Offered:** Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.  
**Note:** Open to declared business administration majors only.

### ACCY 220. Accountancy Teaching Experience. 3 - 6 Units
**Term Typically Offered:** Fall, Spring

Supervised experience of teaching lower division accountancy courses. Students will teach one section of ACCY 1 or 2 for each three units of credit. They may teach no more than two classes (6 units of credit) during any semester and be under direct supervision of an appropriate coordinator. To be eligible, students must register for nine units in addition to ACCY 220 and must have approval of the Department Chair. May not be used to satisfy any requirements in the CBA graduate programs. No student may earn more than twelve (12) units cumulative.  
**Credit/No Credit**

### ACCY 240. Integrated Accounting Concepts. 3 Units
**Term Typically Offered:** Fall, Spring

Designed for students who enter the Master of Science Accountancy program without a Bachelor of Science in Accountancy or students who need to refresh their basic skills and understanding in record keeping, financial statement preparation and analysis, ethics in the practice of accounting, and internal controls through the use of comprehensive case study/practice set. Delivered via independent project work rather than lecture.

### ACCY 250. Financial Reporting I. 3 Units
**Term Typically Offered:** Fall, Spring

Corporate financial reporting to external users in accordance with US Generally Accepted Accounting Principles (GAAP), including financial information about a company's economic resources, obligations, owners' equity, income, case flow, and use of information to evaluate a company's return on investment, risk, financial flexibility, liquidity, and operational capability.

### ACCY 251. Foundations of International Accounting. 3 Units
**Prerequisite(s):** ACCY 250 or equivalent.  
**Term Typically Offered:** Fall, Spring

The role of culture in accounting; comparative international financial and managerial accounting fundamentals; international financial statement analysis; international accounting standards and U.S. GAAP convergence; international business combinations; foreign exchange; international auditing; international taxation; and international capital flows.

### ACCY 260. Financial Reporting II. 3 Units
**Prerequisite(s):** ACCY 250.  
**Term Typically Offered:** Fall, Spring

In-depth study of technical financial accounting issues including accounting for pensions and leases, income tax, accounting changes, consolidated financial statements, and foreign currency.

### ACCY 261. Cost Analysis and Control. 3 Units
**Term Typically Offered:** Fall, Summer

Fundamentals of cost accounting concepts and practice relating to cost accumulation, control, and analysis for managerial planning and decision making. Specific topics generally include product costing, standards, cost allocation, estimation, budgeting, transfer pricing, and performance evaluation. Emphasis is on current issues.
ACCY 262. Auditing.  
Term Typically Offered: Fall, Spring

Study auditing as a control activity in society. It covers a variety of opportunities in the auditing profession including external auditing, internal auditing, compliance auditing, and operational auditing as well as fraud examinations. Topics include evidence and documentation, auditing computer systems, and internal controls.

ACCY 263. Governmental and Non-Profit Accounting.  
Term Typically Offered: Fall, Spring

This course provides an in depth study of accounting and reporting for state and local governmental and non-profit entities. The course emphasizes the governmental reporting environment, the accounting for various types of funds, the accounting aspects of budgetary control, and the preparation of governmental financial information to be included in the Comprehensive Annual Financial Report. This course also emphasizes the key differences between governmental and non-profit organizations, and the financial accounting and reporting for non-profit organizations.

ACCY 264. Taxation of Business Entities.  
Term Typically Offered: Fall, Spring

Covers the topics for corporate tax, partnership tax, estate and gift tax, and tax planning. Corporate tax includes taxation of transactions between corporations and their shareholders, transfers to corporations, dividends and non-liquidating distributions, stock redemptions, corporate liquidations, and S corporation. Partnership tax includes operation and liquidation, dissolution, sales, and exchange of partnership interests. Estate and gift tax addresses the types of transfers for federal gift tax.

Term Typically Offered: Fall, Spring

Emphasis on the role of computer and information technology in the development, analysis, and operation of accounting information systems; may include advanced coverage of accounting transaction cycles, accounting systems planning and analysis, accounting system design, accounting systems implementation and operation, the accounting system internal control structure, data modeling and database design in accounting, computer fraud and security, and auditing of computer-based information systems.

Term Typically Offered: Fall, Spring

Designed to provide understanding of knowledge and skills necessary for the general business environment and business operation. In addition, students are required to apply that knowledge in performing professional responsibilities. Topics include corporate governance, business cycles, global economic markets, business strategy, effect of financial management policies on accounting transactions, economic substance of transactions and their accounting implications, and budgeting/forecasting techniques.

ACCY 269. Taxation of Individuals.  
Term Typically Offered: Fall, Spring

Covers the required topics for tax form preparation for reporting individual incomes. Examines fundamental concepts in tax law and the underlying reasons for income identification, exemption, and deduction.

ACCY 270. Tax Research and Procedure.  
Prerequisite(s): ACCY 172 or ACCY 269.  
Term Typically Offered: Fall, Spring

Tax reporting and collection procedure; administrative and judicial procedures governing tax controversies; the rights and obligations of the taxpayer. Intensive training in performing and communicating tax research. Includes use of current database programs. Lecture basis, followed by "hands-on" application of research methods.

ACCY 271. Tax Accounting Periods and Methods.  
Prerequisite(s): ACCY 172 or ACCY 269.  
Term Typically Offered: Fall, Spring

Concepts and principles of the overall cash, accrual and hybrid methods of tax accounting. Applications of specific methods such as: inventory costing and capitalization rules, installment sales, long-term contracts, and original issue discount/time value of money will be examined. Lecture format to present the underlying rules and concepts. Case studies will then be analyzed and discussed by the students to examine the topics in a "real-world" context.

Prerequisite(s): ACCY 172 or ACCY 269.  
Term Typically Offered: Fall, Spring

Discusses federal tax law as it applies to corporations, including the following topics: special deductions, formation, distributions, and complete liquidations. Incorporates problem sets, case analysis, a corporate tax return project, and a research project to enhance analytical and critical thinking skills and compliance experience.

Prerequisite(s): ACCY 172 or ACCY 269.  
Term Typically Offered: Fall, Spring

Discusses general concepts, acquisitions and basis of partnerships interests, operations, transfers of partnership interests, and distributions. Incorporates problem sets, a partnership tax return project, and research projects to enhance analytical and critical thinking skills and compliance experience and to develop students' technical proficiency in the application of partnership concepts.

ACCY 274. Estate, Gift and Trust Taxation.  
Prerequisite(s): ACCY 172 or ACCY 269.  
Term Typically Offered: Fall, Spring

Taxation of decedent's estate and lifetime gifts; valuation of property subject to estate and gift taxes; income taxation of estates and trusts; estate planning. Uses a lecture format to present the underlying rules and concepts. Case studies will then be analyzed and discussed by the students to examine the topics in a "real-world" context.

Term Typically Offered: Fall, Spring

Importance of global asset protection and wealth management; domestic Statutory and case law authorities of selected European, American and Asian countries as they relate to wealth protection and asset management; bi-lateral international agreements relating to wealth management and asset protection; Multilateral agreement affecting wealth management and asset protection; tax and legal liability minimizing models.
ACCY 276. U.S. Taxation of International Transactions. 3 Units
Prerequisite(s): ACCY 272, Advanced to Candidacy.
Term Typically Offered: Fall, Spring

U.S. tax jurisdiction; U.S. source of income rules and related expense allocation; U.S. taxation of foreign taxpayers; transfer pricing issues; U.S. taxation of the foreign income of U.S. citizens and residents; cross border transactions; foreign currency tax issues; and U.S. bilateral tax agreements. Successful completion will satisfy the culminating experience for the MSBA/Taxation program. Students may select topics for their Master’s projects that are outside the discipline topic of the class subject to the approval of the instructor.

ACCY 277. Comparative International Tax Systems. 3 Units
Term Typically Offered: Fall, Spring

The similarities and differences between current global tax systems including jurisdiction and conflict of laws issues; the role of bilateral international tax treaties and other international tax related agreements in business operations; international tax planning for individuals and multinational enterprise including corporations, partnerships and estates and trusts.

ACCY 278. International and Multi-State Taxation. 3 Units
Term Typically Offered: Fall, Spring

Focuses on the taxation of cross-border transactions which encompasses discussion of the laws, rules, and regulations that affect transactions that cross both state and national borders. It covers various issues such as income sourcing and jurisdiction to tax. This course generally discusses these issues from the perspective of a U.S. person, but emphasizes and illustrates the general applicability of these rules for the tax regimes as established by other countries and states.

ACCY 280. Management Control Systems. 3 Units
Term Typically Offered: Fall, Spring

Development of the concepts and practice of management control systems. How alternative accounting-based planning, performance motivation and evaluation, and control systems fit and are used in varying strategic, management, and operative environments. How systems focus and motivate managers’ decision behavior. How systems fit and are used in varying decision, competitive, and organization settings. Emphasis is on cases.

ACCY 295. Internship in Accountancy. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's accounting operations. Supervision is provided by the faculty and the cooperating agencies. Open to MS in Accountancy students. Petitions are obtained from Tahoe Hall 1035.
Credit/No Credit

ACCY 296. Experimental Offerings in Accountancy. 3 Units
Term Typically Offered: Fall, Spring

When a sufficient number of qualified students apply, a faculty member may conduct a seminar on a designated advanced topic in accountancy.

ACCY 299. Special Problems in Accountancy. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval from the Department Chair of Accountancy. Petitions to be obtained from the CBA Graduate Programs Office, Tahoe Hall 1037.
Credit/No Credit

ACCY 500A. Thesis. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MGMT 210 is required for the MBA only.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master’s degree.

ACCY 500B. Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MGMT 210 is required for the MBA only.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master’s degree.

ACCY 500C. Comprehensive Examination for MS/Accountancy and MSBA/Taxation Degrees. 1 - 3 Units
Prerequisite(s): Advanced to candidacy. For comprehensive examination for MBA only (MGMT 500C, 1 unit), completion of Program Requirements (ACCY 240, MGMT 222, MGMT 223, MGMT 234, MGMT 280, MIS 221, OBE 252). For comprehensive examination for MS/Accountancy and MSBA/Taxation degrees, student must be in final semester of program.
Term Typically Offered: Fall, Spring

Note: MS Accountancy degree, student must be in final semester of program.

ACCY 501. Culminating Experience Project in Accounting and Ethics. 3 Units
Prerequisite(s): Advancement to Candidacy
Term Typically Offered: Fall, Spring

Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MS in Accountancy program as required in Title V of the CA Educational Code. The course also covers the development of ethical standards, ethical reasoning, AICPA Code of Professional Conduct, accountants’ professional responsibilities, financial reporting fraud and responses, corporate governance, and other relevant topics.
Note: May be repeated for credit

AIS 141. Accounting Information Systems Development. 3 Units
Term Typically Offered: Fall, Spring

Design, analysis, and implementation of computer-based accounting information systems. Discussion of flow charting, data security, systems development, program architecture, and management of the implementation process. Development of computer applications and formulation of decision information for managerial uses. Use of the computer in projects.
AIS 142. Enterprise and E-Commerce Accounting Models. 3 Units
Prerequisite(s): AIS 141 or instructor permission.
Term Typically Offered: Fall, Spring
Survey of Enterprise Resource Planning (ERP) models, Business-to-Business (B2B) E-commerce models, and the effects of the changing business and technology landscape upon the accounting profession. Topics include internal control, auditing, and economics relating to these new business-process models.

AIS 194. Cooperative Education Experience in Accounting Information Systems Problems. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring
In-depth supervised work experience in accounting information systems for the purpose of exposing the student to comprehensive Accounting Information Systems experience in business, governmental, or service agencies. 
Note: Open to upper division students, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

AIS 195. Internship in Accounting Information Systems. 3 - 6 Units
Prerequisite(s): Completion of 15 units of upper division business courses at Sacramento State; minimum GPA of 2.75 required; instructor permission.
Term Typically Offered: Fall, Spring
Supervised work experience in accounting information systems for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and cooperating agencies. 
Note: Open to declared business administration upper division majors only, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

AIS 199. Special Problems in Accounting Information Systems. 1 - 3 Units
Prerequisite(s): Senior status or instructor permission.
Term Typically Offered: Fall, Spring
Individual accounting information systems projects or directed reading for students qualified to carry on independent work. 
Note: Open to declared business administration majors only. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Credit/No Credit

BS in Business Administration (Accountancy)

Units required for Major: 69
Total units required for BS: 120

Program Description
The objective of the Accountancy concentration is to provide conceptual and practical knowledge to students who will practice accounting or use accounting in business or other organizations. Students in Accountancy at Sacramento State have the opportunity to take courses of study in preparation for careers in public accountancy, private industry, and government. Studies in Accountancy give students a strong preparation in the fields of business, finance, insurance, banking, government agencies, tax authorities, and many other profit and nonprofit organizations. Some of these career opportunities may lead to professional certification such as Certified Public Accountants, Certified Internal Auditors, Certified Management Accountants, and Certified Governmental Financial Managers. An Accountancy undergraduate education provides a foundation for entry-level jobs and long-term careers in these areas, giving students familiarity with a range of employment opportunities.

Note: The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

Pre-Requisite Requirements
A student may not enroll in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of "C-" or better in each course and an overall GPA of 2.0 ("C"), with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Computer Literacy
All business majors must meet spreadsheet competency prior to taking upper division courses in the major. This requires completing MIS 10 (or equivalent).

Minimum Grade Requirements
The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.
The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 2</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>1</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 21

Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/impaction.html for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

Accountancy (ACCY) Concentration (24 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 111</td>
<td>Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 112</td>
<td>Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 121</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 131</td>
<td>Survey of Auditing, Attest, and Assurance Topics</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 171</td>
<td>Federal Tax Procedures I</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (9 Units)

Select three of the following: 9

General Education Requirements

Area A: Basic Subjects (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

Area B: Physical Universe and Its Life Forms (10 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts 2</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

Area C: Arts and Humanities (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Area D: The Individual and Society (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area D Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area D Course 2</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

Area E: Understanding Personal Development (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area E Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Area F: Ethnic Studies (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area F Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
One result is a heightened interest in the regulatory climate, including the Sarbanes-Oxley Act, have increased the demand for graduate education in accounting. The MS/ACCY program helps to qualify students to sit for professional accounting examinations that lead to credentials such as the CPA (Certified Public Accountant) and the CMA (Certified Management Accountant) designations. The MS/ACCY program uses an online platform to deliver a completely web-based degree. The MS/ACCY courses are only available through the College of Continuing Education.

Admission Requirements

For students who have taken the GMAT, the five Admission Criteria are as follows:

1. Index #1 of 1050 or Index #2 of 1100 (see description below) AND
2. Minimum Total GMAT score of 500 AND
3. Minimum GMAT Quantitative percentile of 30 AND
4. Minimum GMAT Verbal percentile of 30 AND
5. Minimum 2.5 overall undergraduate GPA.

Index #1 - (index = (GPA x 200) + GMAT score). An index of 1050 is required using the overall undergraduate GPA.

Index #2 - (index = (GPA x 200) + GMAT score). An index of 1100 is required using the last 60 semester units (last 90 quarter units) undergraduate GPA.

Example: 3.0 GPA x 200 + 500 GMAT Score = 1100

For students who have not taken the GMAT, the Admission Criteria are as follows:

If the applicant has passed all four parts of the Certified Public Accountant examination but has not taken the GMAT, then a 500 GMAT score will be used to calculate admission indices #1 and #2. If the applicant has taken the LSAT but has not taken the GMAT, then the LSAT score will be used to calculate admission indices #1 and #2. Actual GMAT scores take precedence over imputed GMAT scores as admission criteria for the CBA graduate business programs. LSAT minimum score of 150.

1. Index #1 of 1050 (see description above) OR
2. Index #2 of 1100 (see description above) AND
3. Minimum 2.5 overall undergraduate GPA.

The proof for passing the CPA exam must be evidenced by one of the following:

1. Unlicensed applicants must supply a copy of their CPA exam grade report sent by the State Board of Accountancy or
2. Licensed applicants must supply a copy of their CPA license.

Deadlines

Please see the CBA Web site for current admission deadlines: http://www.cba.csus.edu/graduate/ACCY (http://www.cba.csus.edu/graduate/ACCY)

Application Procedures

All prospective graduate students must file the following documents as noted below:
1. **To the Sacramento State Office of Graduate Studies, submit the following:**
   a. Online CSU Graduate Application: ([https://www2.calstate.edu/apply/graduate](https://www2.calstate.edu/apply/graduate))
   b. Application Fee (paid on-line when you file your application).
   c. One (1) Set of Official Transcripts, from all colleges and universities previously attended.

2. **Submit the following supplemental application:**
   a. One (1) set of official transcripts
   b. Results from GMAT, LSAT or CPA scores
   c. Recommendation Form Waiver
   d. Two (2) Recommendation Forms
   e. Current Resume.

Mail all of the above documents to the following address:

Graduate Business Advising Center (GBAC)
Tahoe Hall, 1037
College of Business Administration
CSU, Sacramento
6000 J Street
Sacramento, CA 95819-6088
Phone: (916) 278-6772
FAX: (916) 278-4233
Email: cba-gbac@saclink.csus.edu

1. If you attend Sacramento State, you must request an official transcript. We cannot obtain one on your behalf. You may order transcripts from the Office of the University Registrar at their Web site: [csus.edu/gradstudies/forms/index.html](http://www.csus.edu/gradstudies/forms/index.html). If you attended additional schools besides Sacramento State, you must obtain official transcripts from those institutions, this includes community and junior colleges.

**Please Note:** Applications are not considered complete and will not be reviewed unless you complete all the steps as directed. You must submit official transcripts from ALL colleges and universities previously attended. Submission of official transcripts and test scores must be received no later than the application deadline.

**International Students**

International students will **not** be issued an F-1 student visa for this program as it is a completely online program. You may apply but you will not be issued a student visa to come to the United States. All materials, inclusive of TOEFL scores, must be turned into the Office of Graduate Studies. To ensure consideration, international students should submit their material to the International Admissions Office one month prior to the above CBA application deadlines.

**TOEFL**

The University requires a minimum TOEFL score of 550 (paper based), 80 (internet based), or 213 (computer based).

To understand the guidelines for your country please go to [http://www.csus.edu/gradstudies/futurestudents/applicantswithforeigndocuments/index.html](http://www.csus.edu/gradstudies/futurestudents/applicantswithforeigndocuments/index.html). Click on your country for detailed information.

California State University, Sacramento interprets "where English was the principal language of instruction" to mean that a school is located in a country where English is the native language (the daily medium of communication of the majority of the residents is English), and that the student received academic instruction in all subjects (except foreign language courses) at all levels of education in English.

**Minimum Units and Grade Requirements for the Degree**

Total units required for MS/ACCY: 30 (excluding foundation courses)

Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is “C.” No more than two (2) courses with a grade of “C” will be counted for satisfaction of graduate program requirements.

**Advancement to Candidacy**

A student’s program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the Graduate Business Advising Center (GBAC) for advancement to candidacy for the Master’s degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 250</td>
<td>Financial Reporting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 260</td>
<td>Financial Reporting II</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 261</td>
<td>Cost Analysis and Control ☑️</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 262</td>
<td>Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 263</td>
<td>Governmental and Non-Profit Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 264</td>
<td>Taxation of Business Entities</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 265</td>
<td>Advanced Accounting Information Systems Analysis and Controls</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 266</td>
<td>Business Environment and Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 269</td>
<td>Taxation of Individuals</td>
<td>3</td>
</tr>
</tbody>
</table>

**Culminating Experience (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 501</td>
<td>Culminating Experience Project in Accounting and Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units** 30

**Business**

For more information regarding services and program options, please visit the COB Web site at: [https://www.csus.edu/college/business-administration/](https://www.csus.edu/college/business-administration/)
Undergraduate Program Description

The College of Business offers a broad professional education in Business. The Bachelor of Science program offers students a choice of 9 concentrations by which they may focus their goals. Additionally, the COB’s Business Honors program provides an alternative path to its most capable students to prepare them for management opportunities. All students must choose a concentration to complete their requirements for the baccalaureate degree. Students who are uncertain about which concentration to choose are encouraged to select the General Management concentration, as it is the most comprehensive. The structure of the General Management concentration also provides an overlap with the other concentrations, thus making changes in focus possible. Students who wish a more customized program may elect to complete the requirements for additional concentrations as well. For example, students may elect dual concentrations such as General Management and Management of Human Resources and Organizational Behavior. For information about program options, please visit our website at: Undergraduate Programs | Sacramento State (csus.edu) (https://www.csus.edu/college/business-administration/undergraduate/).

The College also offers Minors in Business, Management of Human Resources and Organizational Behavior, Marketing, Real Estate and Land Use Affairs, and Risk Management and Insurance. A Minor in Business is valuable to the student majoring in another area who wishes to supplement his/her knowledge with a business background.

Note: The use of the word “business” throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), Operations Management (OPM).

Degree Programs

BS in Business (Accountancy)
BS in Business (Entrepreneurship)
BS in Business (Finance)
BS in Business (General Management)
BS in Business (International Business)
BS in Business (Management of Human Resources and Organizational Behavior)
BS in Business (Management Information System)
BS in Business (Marketing)
BS in Business (Supply Chain Management)
Business Honors Program
Minor in Business
Minor in Management of Human Resources and Organizational Behavior
Minor in Marketing
Minor in Real Estate and Land Use Affairs

Graduate Program Description

The College offers several general and specialized business graduate degree programs. They include: Master of Business (MBA), Master of Business for Executives (EMBA), International Master of Business (IMBA), and Master of Science in Accountancy (MS/ACCY).

Degree Programs

International Master of Business (IMBA)
MBA (General)
MBA (Business Analytics in Healthcare)
MBA (Entrepreneurship and Global Business)
MBA (Finance)
MBA for Executives (EMBA)
MS in Accountancy

Accreditation

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science, Master of Business, and Master of Science are also individually accredited by the AACSB Internationally Association to Advance Collegiate Schools of Business.

Notice to Students RE: Professional Licensure and Certification

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state's requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

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**Academic Policies and Procedures**

The following is a summary of the Policies and Procedures that are unique to the COB. Students who wish to request deviation from these articulated policies and procedures must petition the COB Academic Standards Committee. Undergraduate students should submit their petitions to the Undergraduate Business Advising Center (UBAC), Tahoe Hall 1030. For graduate students enrolled in the EMBA program please contact the Director for Executive and Professional Programs, Tahoe Hall 1020. All other COB graduate students should contact the MBA Program Services (MPS), through Tahoe Hall 1030. Graduate students should contact the Graduate Programs Office (GPO), TAHOE HALL 1020. The Committee will not hear requests from students that disregard catalog policy. To see the full statement, please go to the web address: www.csus.edu/cob/ (http://www.csus.edu/cba/).

**Add/Drop Policies**

Students are subject to being administratively dropped from business courses if they fail to meet academic standards for which they have not met the prerequisite requirements as prescribed by the COB or by Sacramento State.

Rules for adding and/or dropping a course during the first few weeks of a semester differ substantially from the policies in effect after that period of time. Different procedures may apply for undergraduate and graduate students.

**Adding Courses:** Students normally enroll in courses during the registration period. After the registration period, students may be permitted to add courses only with the approval of the instructor and the Associate Dean for the Academic Programs.

**Dropping Courses:** The requirement for dropping selected courses becomes more difficult as the semester progresses. It is the responsibility of the student to maintain progress in each course in which the student is enrolled. Students who request to continue in the course without an approved drop will receive a grade of "WU" or "F" for the course. Please visit the Academic Programs Office Tahoe Hall 2028. You may visit the Undergraduate Business Advising Center for Undergraduate courses. For students enrolled in the EMBA program, the MBA Program Services (MPS).

**Course Repeat Policy**

Undergraduate courses used for the CBA’s major requirements may be repeated twice (for a total of three attempts). If the subject course is required and the student has not earned a grade of "A", "A-", "B+", "B", "B-", "C+", "C", or "C-" in three attempts, the student will be disqualified from the COB. If the course represents a computer literacy requirement, and the student has not earned a grade of "A", "A-", "B+", "B", "B-", "C+", "C", or "CR" in three attempts, the student will not be allowed to enroll in the course a fourth time. However, the student may be given the opportunity to demonstrate computer literacy by passing the appropriate examination.

Graduate students may repeat only two graduate courses — one at the Foundation level and one at the MBA/MS level.

**Reinstatement Policy**

Undergraduate Business majors who have been disqualified from the University will not be allowed to enroll in 100-level business courses until they have been reinstated into the business major. In order for students to qualify to petition for reinstatement into the business major, they must be in good standing according to university standards. Undergraduate business students seeking reinstatement to the COB must reapply to the major through the impaction process.

Graduate students must complete a Reinstatement Petition obtained in the MBA Program Services (MPS). Graduate students must file the petition with the MPS, including an explanation with relevant documentation supporting their request for reinstatement. The COB Academic Standards Committee will review the petition.

**Incomplete Grades**

Under certain conditions, students may request a grade of “Incomplete.” Students must be passing the course at the time an “Incomplete” is requested. The issuance of an “Incomplete” is appropriate only when required by University policy or in situations such as:

- the student misses a final exam for reasons that are fully justifiable in the eyes of the instructor; or
- the student was granted an extension of time to complete a class assignment.

Except in those cases specifically approved by university policy, the course instructor has sole discretion over what constitutes a fully justifiable reason for an “Incomplete.”

**Contract to Finish an Incomplete Grade**

A petition for Incomplete Grade must be submitted with both the student’s and course instructor’s showing the work to be completed, the basis by which the student’s final grade will be determined, the last date for completing the incomplete work, and the grade earned by the student at the time the petition was approved. All “Incomplete” grade petitions must be agreed to by the student, as indicated by the student’s signature and date of signing. The contract must also be signed by the course instructor.

**Open University Enrollment**

The COB restricts the enrollment in 100-level business courses through Open University to only six (6) units. The purpose of Open University is to provide opportunity for individuals from the community to enroll in certain courses for purposes of professional development. Matriculating and/or matriculated students in a COB degree program are not to use Open University. See the Undergraduate Business Advising Center (TAH-1030) for undergraduate courses.

**Simultaneous Course Enrollment**

Students may not enroll in two or more courses that are offered on the same day and at the same time. In very rare circumstances, and with approval of the course instructors and the Associate Dean for the Academic Programs, students may enroll in courses that overlap by no more than 15 minutes.
Currency of Knowledge Requirement
All students must have what is considered “currency of knowledge” in courses they apply towards an earned degree. This applies to both majors and minors within the COB. Courses that do not satisfy the currency of knowledge requirement must be repeated.

Currency of Course Prerequisites
All current course prerequisites must have been completed within seven years of enrolling in any course having prerequisites. This currency requirement may be waived in cases where more advanced courses in the same area than the listed prerequisites have been completed in the last seven years with a grade of “C-” or better.

Undergraduate Courses
Lower division courses used to satisfy major or minor requirements must have been completed within seven years of the date of admission to the business major or minor. Upper division courses used to satisfy graduation requirements must have been completed within seven years of the date of graduation.

The COB Academic Standards Committee may grant credit for courses taken beyond the seven-year requirement for extensive experience in the area. The burden rests upon the applicant to demonstrate how his/her experience satisfies the requirement of currency.

Graduate Courses
All program requirements, excluding the Foundation courses, must be completed within seven years of the date of expected graduation.

During the admission cycle, courses used to fulfill Foundation course requirements must have been completed within seven years of the date of admission. The COB Academic Standards Committee, however, may approve currency for Foundation courses taken beyond the seven-year requirement if a request is so filed. Waiving of the seven-year requirement shall be based on the relevancy, level of responsibility, and duration of the applicant’s work experience. The burden rests upon the applicant to demonstrate how his/her experience satisfies the requirement for currency.

Course Transfer Credit Articulated Courses
The COB has articulation agreements with a number of community colleges. These agreements stipulate the COB has agreed that certain identified undergraduate courses are deemed to be “equivalent” between the respective institutions, and therefore credit will be awarded for those courses taken at another (articulated) institution, towards a degree from Sacramento State. Approval of courses submitted for articulation is subject to currency of knowledge stipulations. See the following Web site for an up-to-date list of articulated courses: www.assist.org (http://www.csus.edu/college/business-administration/undergraduate/impacted-major.html).

Course Transfer Credit Non-Articulated Courses
Courses taken at an AACSB International accredited college of business will be accepted for transfer credit if the course is regarded as equivalent to the course for which credit is requested. Business core courses and concentration courses will not be accepted for transfer credit from programs that are not AACSB International accredited unless taken at institutions that have national or international reputations of high quality programs.

Petitions for equivalency for undergraduate, non-articulated courses must be submitted to the Undergraduate Business Advising Center (UBAC). Petitions for equivalency for graduate, non-articulated courses must be submitted to the Graduate Programs Office, TAHOE 1020. For all other COB graduate programs contact the Graduate Programs Office. The COB Academic Standards Committee will evaluate whether the institution satisfies the requirement of “national or international reputations of high quality programs.” Subsequently, faculty in the appropriate area will make the final determination of course equivalency, e.g., content, method of instruction, method of evaluating students, and/or course duration.

Change of Major
The undergraduate Business Major is impacted. The students must meet the impaction criteria found at: Impacted Major Information | Sacramento State (csus.edu) (https://www.csus.edu/college/business-administration/undergraduate/advising/impacted-major.html)

Students who are declared in another major and wish to declare business as their minor, must file a Minor Request Petition. Students must complete and return these petitions to the Undergraduate Business Advising Center, Tahoe Hall 1030. The deadline for the fall semester is March 1st; for the spring semester the deadline is October 1st.

Contact Information
Office of the Dean
Tahoe Hall 1010
Email: cob@csus.edu
Phone: (916) 278-6578
College of Business Website (https://www.csus.edu/college/business-administration/)
Jean-Francois Coget, Dean
Mylah Nurse, Executive Assistant to the Dean
Cyndy LaFitte, Budget Analyst
Douglas, Evans, Marketing Specialist
Ale Reiher, Administrative Coordinator
Tim Richter, Director of Development

Office of the Associate Dean for Faculty Support
Tahoe Hall 2130
(916) 278-5577
Jaydeep Balakrishnan, Associate Dean
Angela Park-Girouard, Administrative Analyst
Jeannie Hansen, Faculty Personnel Analyst

Office of the Associate Dean for Academic Programs
Tahoe Hall 2028
(916) 278-6463
Andrey Mikhalitchenko, Associate Dean
Barbara (Mei Po) Vong, Administrative Analyst
Maryam Sabet, Academic Programs Coordinator & Enrolment Specialist

Office of Student Engagement
Tahoe Hall 1030
(916) 278-BIZZ (2499)
Bonnie McDonald Beever, Director
Sanitta Coey, Administrative Coordinator
Maggie Hansen, Program Coordinator

Undergraduate Business Advising Center
Tahoe Hall 1030
(916) 278-BIZZ (2499)
Graduate Programs Office (EPP / MPS / Grad Career Svs.)
Tahoe Hall 1020
Oliver Liu, Interim Director of Graduate Programs

Executive & Professional Programs (EPP)
(916) 278-5767
Email: cba-grad@csus.edu
Claire Goldsby, Graduate Programs Coordinator
Maryanne Ruperto, Administrative Coordinator
Serena Hoffman, EPP Advisor

MBA Program Services (MPS)
(916) 278-3354
Contact the MBA Program Services (https://www.csus.edu/college/business-administration/graduate/mba.html)

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CHOI, BEOMJOON "PETER"
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ERYILMAZ, EVREN
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FULLER, RYAN
GARDNER, SHARYN
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HAN, YONGLIANG "STANLEY"
IKROMOV, NURIDDIN
JANG, DAUN
KIM, WON JUNG
KIM, Nam Kyoong "Nathan"
KIM, Yaeeun
LAM, SIU-WA "MONICA"
LEE, JAI JOON "JAY"
LI, MIN
LI, YANG
LIN, XIAOLIN
LIN, HAO
LIN, ERIC C.
LIU, CAIXING
LIU, LAN
LIU, FENG "Oliver"
LIU, CHANG
LOJO, MAUREEN
LYON, ELIZABETH
MACIEL, FERNANDA ARAUJO
MICHAEL, BONIFACE
MICKEL, AMY E.
MIKHAILITCHENKOV, ANDREY
MOHAPATRA, PARTHA
MOORE, DAVID
MUBAKO, GRACE
NIU, KUEI-HSIEH "JEFF"
OZCELIK, HAKAN
PANGLABEAN, TOTA
PFORSICH, HUGH
RENZ, FRANZISKA
RICHARDS, JOSEPH
RIOLLI, LAURA
ROBERTS, ROSLYN
SABBAGH, MOSTAFA
SHAO, PING "TYRA"
TAYLOR, JOSEPH
ACCY 1. Accounting Fundamentals. 3 Units
Prerequisite(s): Entry Level Math (ELM) test of at least 36 or a CR grade in LS 7A.
Term Typically Offered: Fall, Spring

Accounting as the basis of an information system with emphasis on concepts and assumptions underlying data accumulation for financial reports. Includes the concepts of income determination and financial position, and the accounting for various types of ownership equities.

ACCY 2. Managerial Accounting. 3 Units
Prerequisite(s): ACCY 1.
Term Typically Offered: Fall, Spring

Use and reporting of accounting data for managerial planning, control, and decision making. Broad coverage of concepts, classification, and behavior of costs.

ACCY 111. Intermediate Accounting I. 3 Units
Term Typically Offered: Fall, Spring

In-depth knowledge of how financial information provides information about a company's economic resources, obligations, and owner's equity; income and its components; and cash flows. Topics include the development and application of basic assumptions, principles and constraints underlying financial statements; the use of information derived from financial statements and the limitations of the information; and the use of accounting information to evaluate a company's return on investment, risk, financial, flexibility, liquidity, and operational capability. Students learn how to prepare financial statements.

ACCY 112. Intermediate Accounting II. 3 Units
Prerequisite(s): ACCY 111.
Term Typically Offered: Fall, Spring

Application of Generally Accepted Accounting Principles to the reporting of tangible and intangible assets, liabilities, and the capital section of the balance sheet. Other topics include the reporting of stock-based compensation and earnings-per-share.

ACCY 113. Intermediate Accounting III. 3 Units
Prerequisite(s): ACCY 111.
Term Typically Offered: Fall, Spring

Application of Generally Accepted Accounting Principles to revenue recognition and matching, pensions, leases, income taxes, accounting changes, interim financial statements, and segmental reporting. Students develop an in-depth knowledge of the preparation and the analysis of the cash flow statement.

ACCY 117. Advanced Accounting. 3 Units
Prerequisite(s): ACCY 111 and ACCY 112.
Term Typically Offered: Fall, Spring

Specialized topics in partnership accounting; consolidated statements; foreign currency translation and financial statements.

ACCY 121. Cost Accounting. 3 Units
Term Typically Offered: Fall, Spring

Importance of the allocation of costs; the cost allocation techniques available to accountants; the techniques used by management to maintain and create enterprise value, e.g., CVP analysis; the accountant's responsibility for the management of inventory; and the ethical consideration in internal reporting.

ACCY 122. Advanced Management Accounting. 3 Units
Prerequisite(s): ACCY 121.
Term Typically Offered: Fall, Spring

Accountant's responsibility to provide financial and non-financial information to managers; the planning techniques available to accountants; managerial control techniques that enhance the maintenance and improvement of enterprise value, and short-run and long-run analyses.

ACCY 131. Survey of Auditing, Attest, and Assurance Topics. 3 Units
Prerequisite(s): ACCY 111, ACCY 112.
Term Typically Offered: Fall, Spring

Survey of topics in auditing as a control activity in society. Covers a variety of opportunities in the auditing profession including external auditing, internal auditing, compliance auditing, and operational auditing as well as fraud examinations. Topics include evidence and documentation, professional ethics, auditing computer systems, statistical sampling, and internal controls.

ACCY 132. Accountants' Ethical and Professional Responsibilities. 3 Units
Prerequisite(s): ACCY 111, ACCY 112.
Corequisite(s): ACCY 131.
Term Typically Offered: Fall, Spring

This course addresses professional responsibilities for the accounting profession, including the development of ethical standards, ethical reasoning, AICPA and California Codes of Professional Conduct, financial reporting fraud, corporate governance, and other relevant topics.
ACCY 143. Accounting Data Analytics. 3 Units
Prerequisite(s): ACCY 112
Term Typically Offered: Fall, Spring

Examines the changing technological environment in accounting, and the role of data analytics in accounting. This course will help students to understand different structured and unstructured accounting data, and develop new analytic skills to make better accounting decisions. It will also improve students' ability to conduct audit analytical procedures in accordance with financial reporting regulatory requirements.

ACCY 161. Government and Nonprofit Accounting. 3 Units
Prerequisite(s): ACCY 111
Term Typically Offered: Fall, Spring

Fundamentals of accounting and financial reporting for governmental units and institutions; accounting for various types of funds; accounting aspects of budgetary control.

ACCY 171. Federal Tax Procedures I. 3 Units
Term Typically Offered: Fall, Spring

Federal taxation concepts are used in effective decision making; a working knowledge of the concepts of gross income, deductions, tax rates, and property transactions as they pertain to C corporations, partnerships, S corporations, and individuals; and proficiency in the application of tax concepts as they pertain to business and individual taxpayers.

ACCY 172. Federal Tax Procedures II. 3 Units
Prerequisite(s): ACCY 171
Term Typically Offered: Fall, Spring

Business entity formation, operation, and termination and business taxation principles and concepts used in effective decision-making. Students develop the ability to understand and apply business tax principles and the critical and analytical skills that are necessary in the study and application of taxation and tax law.

ACCY 190. International Accounting. 3 Units
Prerequisite(s): ACCY 111, Business Major
Term Typically Offered: Fall, Spring

Accounting concepts, principles, and methods applicable to multinational transactions and global corporations. Contents include the translation of financial statements, comparative accounting systems, financial reporting, currency risk management, international accounting standards and organizations, taxation problems, and the managerial aspects of multinational transactions.

ACCY 194. Cooperative Education Experience in Accountancy. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in accounting for the purpose of exposing the student to comprehensive accountancy experience in business, governmental, or service agencies. Note: Open to upper division students, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

ACCY 195. Internship in Accountancy. 3 Units
Prerequisite(s): Completion of 15 units of upper division business courses at Sacramento State; minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring

Supervised work experience in accountancy for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies. Note: Open to declared business administration upper division majors only, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

ACCY 196B. Exper Offer Accountancy. 3 Units
Prerequisite(s): AIS 141
Corequisite(s): ACCY 131
Term Typically Offered: Fall, Spring

Credit/No Credit

ACCY 199. Special Problems in Accountancy. 1 - 3 Units
Prerequisite(s): Senior status or instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030. Note: Open to declared business administration majors only.

ACCY 220. Accountancy Teaching Experience. 3 - 6 Units
Term Typically Offered: Fall, Spring

Supervised experience of teaching lower division accountancy courses. Students will teach one section of ACCY 1 or 2 for each three units of credit. They may teach no more than two classes (6 units of credit) during any semester and be under direct supervision of an appropriate coordinator. To be eligible, students must register for nine units in addition to ACCY 220 and must have approval of the Department Chair. May not be used to satisfy any requirements in the CBA graduate programs. No student may earn more than twelve (12) units cumulative. Credit/No Credit

ACCY 240. Integrated Accounting Concepts. 3 Units
Term Typically Offered: Fall, Spring

Designed for students who enter the Master of Science Accountancy program without a Bachelor of Science in Accountancy or students who need to refresh their basic skills and understanding in record keeping, financial statement preparation and analysis, ethics in the practice of accounting, and internal controls through the use of comprehensive case study/practice set. Delivered via independent project work rather than lecture.
ACCY 250. Financial Reporting I. 3 Units
Term Typically Offered: Fall, Spring

Corporate financial reporting to external users in accordance with US Generally Accepted Accounting Principles (GAAP), including financial information about a company’s economic resources, obligations, owners’ equity, income, case flow, and use of information to evaluate a company’s return on investment, risk, financial flexibility, liquidity, and operational capability.

ACCY 251. Foundations of International Accounting. 3 Units
Prerequisite(s): ACCY 250 or equivalent.
Term Typically Offered: Fall, Spring

The role of culture in accounting; comparative international financial and managerial accounting fundamentals; international financial statement analysis; international accounting standards and U.S. GAAP convergence; international business combinations; foreign exchange; international auditing; international taxation; and international capital flows.

ACCY 260. Financial Reporting II. 3 Units
Prerequisite(s): ACCY 250.
Term Typically Offered: Fall, Spring

In-depth study of technical financial accounting issues including accounting for pensions and leases, income tax, accounting changes, consolidated financial statements, and foreign currency.

ACCY 261. Cost Analysis and Control. 3 Units
Term Typically Offered: Fall, Summer

Fundamentals of cost accounting concepts and practice relating to cost accumulation, control, and analysis for managerial planning and decision making. Specific topics generally include product costing, standards, cost allocation, estimation, budgeting, transfer pricing, and performance evaluation. Emphasis is on current issues.

ACCY 262. Auditing. 3 Units
Term Typically Offered: Fall, Spring

Study auditing as a control activity in society. It covers a variety of opportunities in the auditing profession including external auditing, internal auditing, compliance auditing, and operational auditing as well as fraud examinations. Topics include evidence and documentation, auditing computer systems, and internal controls.

ACCY 263. Governmental and Non-Profit Accounting. 3 Units
Term Typically Offered: Fall, Spring

This course provides an in depth study of accounting and reporting for state and local governmental and non-profit entities. The course emphasizes the governmental reporting environment, the accounting for various types of funds, the accounting aspects of budgetary control, and the preparation of governmental financial information to be included in the Comprehensive Annual Financial Report. This course also emphasizes the key differences between governmental and non-profit organizations, and the financial accounting and reporting for non-profit organizations.

ACCY 264. Taxation of Business Entities. 3 Units
Term Typically Offered: Fall, Spring

Covers the topics for corporate tax, partnership tax, estate and gift tax, and tax planning. Corporate tax includes taxation of transactions between corporations and their shareholders, transfers to corporations, dividends and non-liquidating distributions, stock redemptions, corporate liquidations, and S corporation. Partnership tax includes operation and liquidation, dissolution, sales, and exchange of partnership interests. Estate and gift tax addresses the types of transfers for federal gift tax.

ACCY 265. Advanced Accounting Information Systems Analysis and Controls. 3 Units
Term Typically Offered: Fall, Spring

Emphasis on the role of computer and information technology in the development, analysis, and operation of accounting information systems; may include advanced coverage of accounting transaction cycles, accounting systems planning and analysis, accounting system design, accounting systems implementation and operation, the accounting system internal control structure, data modeling and database design in accounting, computer fraud and security, and auditing of computer-based information systems.

ACCY 266. Business Environment and Concepts. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide understanding of knowledge and skills necessary for the general business environment and business operation. In addition, students are required to apply that knowledge in performing professional responsibilities. Topics include corporate governance, business cycles, global economic markets, business strategy, effect of financial management policies on accounting transactions, economic substance of transactions and their accounting implications, and budgeting/forecasting techniques.

ACCY 269. Taxation of Individuals. 3 Units
Term Typically Offered: Fall, Spring

Covers the required topics for tax form preparation for reporting individual incomes. Examines fundamental concepts in tax law and the underlying reasons for income identification, exemption, and deduction.

ACCY 270. Tax Research and Procedure. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Tax reporting and collection procedure; administrative and judicial procedures governing tax controversies; the rights and obligations of the taxpayer. Intensive training in performing and communicating tax research. Includes use of current database programs. Lecture basis, followed by "hands-on" application of research methods.

ACCY 271. Tax Accounting Periods and Methods. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Concepts and principles of the overall cash, accrual and hybrid methods of tax accounting. Applications of specific methods such as: inventory costing and capitalization rules, installment sales, long-term contracts, and original issue discount/time value of money will be examined. Lecture format to present the underlying rules and concepts. Case studies will then be analyzed and discussed by the students to examine the topics in a "real-world" context.
ACCY 272. Taxation of Business Enterprises I - Corporations. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring
Discusses federal tax law as it applies to corporations, including the following topics: special deductions, formation, distributions, and complete liquidations. Incorporates problem sets, case analysis, a corporate tax return project, and a research project to enhance analytical and critical thinking skills and compliance experience.

ACCY 273. Taxation of Business Enterprises II - Partnerships. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring
Discusses general concepts, acquisitions and basis of partnerships interests, operations, transfers of partnership interests, and distributions. Incorporates problem sets, a partnership tax return project, and research projects to enhance analytical and critical thinking skills and compliance experience and to develop students' technical proficiency in the application of partnership concepts.

ACCY 274. Estate, Gift and Trust Taxation. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring
Taxation of decedent's estate and lifetime gifts; valuation of property subject to estate and gift taxes; income taxation of estates and trusts; estate planning. Uses a lecture format to present the underlying rules and concepts. Case studies will then be analyzed and discussed by the students to examine the topics in a "real-world" context.

ACCY 275. International Wealth and Asset Management. 3 Units
Term Typically Offered: Fall, Spring
Importance of global asset protection and wealth management; domestic Statutory and case law authorities of selected European, American and Asian countries as they relate to wealth protection and asset management; bi-lateral international agreements relating to wealth management and asset protection; Multilateral agreement affecting wealth management and asset protection; tax and legal liability minimizing models.

ACCY 276. U.S.Taxation of International Transactions. 3 Units
Prerequisite(s): ACCY 272, Advanced to Candidacy.
Term Typically Offered: Fall, Spring
U.S. tax jurisdiction; U.S. source of income rules and related expense allocation; U.S. taxation of foreign taxpayers; transfer pricing issues; U.S. taxation of the foreign income of U.S. citizens and residents; cross border transactions; foreign currency tax issues; and U.S. bilateral tax agreements. Successful completion will satisfy the culminating experience for the MSBA/Taxation program. Students may select topics for their Master’s projects that are outside the discipline topic of the class subject to the approval of the instructor.

ACCY 277. Comparative International Tax Systems. 3 Units
Term Typically Offered: Fall, Spring
The similarities and differences between current global tax systems including jurisdiction and conflict of laws issues; the role of bilateral international tax treaties and other international tax related agreements in business operations; international tax planning for individuals and multinational enterprise including corporations, partnerships and estates and trusts.

ACCY 278. International and Multi-State Taxation. 3 Units
Term Typically Offered: Fall, Spring
Focuses on the taxation of cross-border transactions which encompasses discussion of the laws, rules, and regulations that affect transactions that cross both state and national borders. It covers various issues such as income sourcing and jurisdiction to tax. This course generally discusses these issues from the perspective of a U.S. person, but emphasizes and illustrates the general applicability of these rules for the tax regimes as established by other countries and states.

ACCY 280. Management Control Systems. 3 Units
Term Typically Offered: Fall, Spring
Development of the concepts and practice of management control systems. How alternative accounting-based planning, performance motivation and evaluation, and control systems fit and are used in varying strategic, management, and operative environments. How systems focus and motivate managers' decision behavior. How systems fit and are used in varying decision, competitive, and organization settings. Emphasis is on cases.

ACCY 295. Internship in Accountancy. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring
Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's accounting operations. Supervision is provided by the faculty and the cooperating agencies. Open to MS in Accountancy students. Petitions are obtained from Tahoe Hall 1035. Credit/No Credit

ACCY 296. Experimental Offerings in Accountancy. 3 Units
Term Typically Offered: Fall, Spring
When a sufficient number of qualified students apply, a faculty member may conduct a seminar on a designated advanced topic in accountancy.

ACCY 299. Special Problems in Accountancy. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval from the Department Chair of Accountancy. Petitions to be obtained from the CBA Graduate Programs Office, Tahoe Hall 1037. Credit/No Credit

ACCY 500A. Thesis. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MGMT 210 is required for the MBA only.
Term Typically Offered: Fall, Spring
Completion of a thesis approved for the Master’s degree.

ACCY 500B. Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MGMT 210 is required for the MBA only.
Term Typically Offered: Fall, Spring
Completion of a project approved for the Master’s degree.
ACCY 500C. Comprehensive Examination for MS/Accountancy and MSBA/Taxation Degrees. 1 - 3 Units
Prerequisite(s): Advanced to candidacy. For comprehensive examination for MBA only (MGMT 500C, 1 unit), completion of Program Requirements (ACCY 240, MGMT 222, MGMT 223, MGMT 234, MGMT 280, MIS 221, OBE 252). For comprehensive examination for MS/Accountancy and MSBA/Taxation degrees, student must be in final semester of program.
Term Typically Offered: Fall, Spring
Note: MS Accountancy degree, student must be in final semester of program.

ACCY 501. Culminating Experience Project in Accounting and Ethics. 3 Units
Prerequisite(s): Advancement to Candidacy
Term Typically Offered: Fall, Spring
Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MS in Accountancy program as required in Title V of the CA Educational Code. The course also covers the development of ethical standards, ethical reasoning, AICPA Code of Professional Conduct, accountants’ professional responsibilities, financial reporting fraud and responses, corporate governance, and other relevant topics.
Note: May be repeated for credit

AIS 141. Accounting Information Systems Development. 3 Units
Term Typically Offered: Fall, Spring
Design, analysis, and implementation of computer-based accounting information systems. Discussion of flow charting, data security, systems development, program architecture, and management of the implementation process. Development of computer applications and formulation of decision information for managerial uses. Use of the computer in projects.

AIS 142. Enterprise and E-Commerce Accounting Models. 3 Units
Prerequisite(s): AIS 141 or instructor permission.
Term Typically Offered: Fall, Spring
Survey of Enterprise Resource Planning (ERP) models, Business-to-Business (B2B) E-commerce models, and the effects of the changing business and technology landscape upon the accounting profession. Topics include internal control, auditing, and economics relating to these new business-process models.

AIS 144. Cooperative Education Experience in Accounting Information Systems Problems. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring
In-depth supervised work experience in accounting information systems for the purpose of exposing the student to comprehensive Accounting Information Systems experience in business, governmental, or service agencies.
Note: Open to upper division students, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

AIS 195. Internship in Accounting Information Systems. 3 - 6 Units
Prerequisite(s): Completion of 15 units of upper division business courses at Sacramento State; minimum GPA of 2.75 required; instructor permission.
Term Typically Offered: Fall, Spring
Supervised work experience in accounting information systems for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and cooperating agencies.
Note: Open to declared business administration upper division majors only, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

BHON 102. Business Communication. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring
Provides basic concepts for the understanding and practice of communication for managers and professionals. Examines the use of language and conversations in business settings and their role in coordinating actions, resolving breakdowns in work performance, and providing customer satisfaction. Topics include professional styles and formats of business writing and development of competence in business conversation skills (written, electronic and oral).

BHON 103. Business Legal Environment. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring
Investigates substantive law and stresses critical thinking and analytical evaluation of contemporary business legal issues. Identifies ethical concerns and addresses potential legal problems. Topics include an introduction to the legal system, court procedures, contracts and sales, real and personal property, labor and employment law, product liability, and the government regulation of business.

BHON 104. Fundamentals of Organizational Behavior. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring
The course provides students frameworks to deal and work with members of work organizations, and focuses on how individual, group and organization-level factors influence employee attitudes and behaviors. The course further discusses challenges people face in today's dynamic work environment and global settings.
BHON 105. Introduction to Management Information Systems. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Explores the application of information technology in the organizational environment to assist in managerial decision making. Examines the alignment of IT and business strategy.

BHON 106. Business Data Analysis. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Applies statistical methods to solve business problems and inform managerial decision making. Topics include data analysis, statistical reasoning, model building and communication of statistical results. A statistical computer package is used in this course.

BHON 107. Business Finance. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Study of principles of finance and their application to typical financial problems of business enterprises. Topics include financial analysis, management of working capital, capital budgeting, long-term financing, dividend policy, internal financing, and time value of money.

BHON 108. Fundamentals in Marketing. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

An introduction to marketing concepts and principals. Examines the marketing function, its relationships with other business functions, and its role in the US and global economies.

BHON 109. Operations Management. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Introduces the basic concepts and methods used to analyze and improve operation performance in manufacturing and service organizations. Topics include operations strategy, process design and capacity management, inventory management, supply chain management, and operations planning and control.

BHON 120. Business Intelligence. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Focuses on enterprise problem solving and decision making using information technology, and data and financial analyses for mission critical and integral applications in planning and control. Alternative solutions are examined and evaluated for their effectiveness in achieving results.

BHON 130. Value Chain and Supply Chain Management. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Methods used for developing effective organizational value chains that integrate strategic planning, procurement, R&D, production, warehousing, distribution, and customer service to support business strategy. Includes critical decisions surrounding various organizational stakeholders, such as customer and supplier management, and the movement of goods and information throughout a supply chain network.

BHON 140. Enterprise Resource Planning and Infrastructure. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Examines the design, planning, implementation and impact of enterprise-wide systems on the organization and infrastructure. Focuses on the integration and coordination of all facets of business, including production, accounting, finance, human resources, and marketing to improve the organization’s resource planning, and management and operational control.

BHON 150. Entrepreneurship and Innovation. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

An application based course that provides a broad understanding of the new venture processes. Discusses fundamental tools and skills necessary to create, run, and grow a successful new venture. Offers a multidisciplinary framework for studying and developing innovative and creative capabilities of entrepreneurs.

BHON 160. Project Management. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Methods and processes used for planning, controlling and managing projects. Includes project selection and scope, scheduling methodologies, economic analysis, the use of software, and life-cycle costing for managing different phases of projects. Emphasis on effective management of projects to achieve operational, managerial and strategic goals of organizations.

BHON 170. Strategy and Leadership. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

An introduction to traditional and contemporary theories of business strategy, corporate strategy and strategic leadership. Compares and contrasts theories in strategy and styles of strategic leadership through case studies, current research, and conversations with business leaders.

BHON 190. Practicum in Business. 1 Unit
Prerequisite(s): Currently enrolled in the business honors program.
Term Typically Offered: Fall, Spring

A series of forums that exposes students to practical business issues that have significant impact on the enterprise. Discussions with managers who have effectively led planning and operations. Compares and contrasts business concepts and principles to their practical applications.
Credit/No Credit

BUS 162. Project Management. 3 Units
Prerequisite(s): MGMT 102.
Term Typically Offered: Fall, Spring

Processes, methodologies, tools, techniques, software, economic analysis, and life-cycle costing for managing different phases of projects. Emphasis on effective management of projects to achieve operational, managerial, and strategic goals of organizations.
FIN 137. Financial Institutions and Markets. 3 Units
Prerequisite(s): MATH 24, STAT 1; must be a business pre-major, business major (any concentration), or business minor, and have at least sophomore standing
Term Typically Offered: Fall, Spring

Designed to broaden understanding of the financial system to include the network of institutions which bring into existence the increasingly important substitutes for money in the traditional sense. Emphasis is on the position of the financial manager who must make decisions and implement them.

FIN 138. Asset Management. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Asset management utilizing the major aspects of modern portfolio theory, portfolio construction and selection, portfolio performance evaluation, capital asset pricing models, and recent theoretical developments in asset pricing behavior.

FIN 139. Corporate Entrepreneurship. 3 Units
Prerequisite(s): Upper-division standing
Term Typically Offered: Fall, Spring

Offers a multidisciplinary framework for studying and developing corporate entrepreneurship. Covers the climate and culture of an entrepreneurial organization, strategies for developing new business ventures within an organization, and strategies for transforming firms toward a more entrepreneurially driven organization. As a result, students will increase their understanding of environment, processes and strategies that will create value and build competence through entrepreneurial activities within organizations.

FIN 19. Real Estate Principles. 3 Units
Term Typically Offered: Fall, Spring

Examination of real estate principles and practices necessary for the acquisition, financing, management, and disposition of real estate.

FIN 101. Business Finance. 3 Units
Term Typically Offered: Fall, Spring

Study of principles of finance and their application to typical financial problems of business enterprises. Special emphasis on financial analysis, management of working capital, cost of capital, capital budgeting, long-term financing, dividend policy, and internal financing.

FIN 134. Financial Management. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Trends in the development of financial policy are analyzed and reports on specific aspects are presented in class. The student is placed in the position of the financial manager who must make decisions and implement them.

FIN 135. Investments. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Significant characteristics of numerous types of investments; securities markets and financial institutions; principles of investment analysis; investment management.

FIN 136. Modern Portfolio Management. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Asset management utilizing the major aspects of modern portfolio theory, portfolio construction and selection, portfolio performance evaluation, capital asset pricing models, and recent theoretical developments in asset pricing behavior.

FIN 137. Financial Institutions and Markets. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Designed to broaden understanding of the financial system to include the network of institutions which bring into existence the increasingly important substitutes for money in the traditional sense. Emphasis is given to flow of funds analysis within the context of emerging financial theories.
FIN 138. Principles of Risk Management and Insurance. 3 Units
Prerequisite(s): Must be a business major (any concentration) or Public Health major (Occupational Health & Safety concentration) or Real Estate & Land Use Affairs minor or a Risk Mgmt & Insurance minor
Term Typically Offered: Fall, Spring

Study of the concept of pure risk and its implications for decision making. Provides business students the basics of risk theory and its application to risk management or insurance purchasing using a personal consumer’s viewpoint. Practical personalized examples and cases will be used to illustrate risk decision making, primarily on a personal basis, but also in selected business decisions. Topics include risk theory and applications, life insurance, medical coverage, property insurances, and liability insurances.

FIN 139. Business Property and Liability Insurance. 3 Units
Prerequisite(s): FIN 138 or instructor permission.
Term Typically Offered: Fall, Spring

Concentrated and analytical approach to the study of property and liability loss exposures for the business enterprise. While the emphasis is on the different types of business insurance coverage’s, a risk management approach and examples are used. Topics include business property insurances; liability, especially workers’ compensation; the SMP and CGL contracts; business auto, crime coverage’s; bonds; transportation insurance; consequential coverage’s; and capacity and other related marketplace problems. Case studies and problems, as well as a computer analysis are used. The course is an excellent supplement for insurance, finance, real estate and pre-law majors, small business owners, and anyone who will be making business financial decisions, or providing insurance products in the insurance industry. Successfully completing FIN 138 and 139 substitutes for the one-year experience requirement for those interested in taking the Insurance Broker’s Licensing Exam.

FIN 140. Employee Benefits. 3 Units
Prerequisite(s): FIN 138 or instructor permission.
Term Typically Offered: Fall, Spring

Intensive and analytical examination of the employee benefit planning environment and its risk exposures. Using a risk management approach, the topical areas studied include mandatory programs, especially OASFHI and ERISA; health care; group life and disability; retirement income and capital accumulation plans; paid time off; family-centered benefits; flexible benefits and cafeteria plans; and benefit cost information. Case studies and extensive contact with the business community as well as team projects are required. This is an important class for specialists in human resources management, especially personnel, pre-law, and health care or those who will be providing insurance products to fulfill employment benefit needs.

FIN 141. Managerial Real Estate Law. 3 Units
Prerequisite(s): FIN 19
Term Typically Offered: Fall, Spring

Examination of the decision making process in land utilization transactions relative to the minimization of risks of legal confrontation. Traditional conflicts underlying real estate transactions are examined and principles of preventive law are derived. The management of litigation and transaction attorneys is considered. Court remedies that are pertinent to land utilization transactions are analyzed and compared to nonjudicial alternatives.

FIN 142. Real Estate Finance. 3 Units
Prerequisite(s): FIN 19 or ACCY 121 or FIN 101 or ENGR 140; Business Majors only
Term Typically Offered: Fall, Spring

Examination of the mechanisms of real estate finance, sources of funds, loan contracts, principles of mortgage risk analysis, and the role of group equity investment. The evolution of secondary mortgage markets, government policy, and market interference will be investigated from a risk management standpoint.

FIN 143. Real Estate Investment. 3 Units
Prerequisite(s): FIN 19 or ACCY 121 or FIN 101 or ENGR 140; Business majors only
Term Typically Offered: Fall, Spring

Analyzes non-financial and financial factors influencing investment decision making in income producing property. Topics include: location and its linkages; methods of estimating demand for real estate; methods for evaluating competing supply; use of market analysis in decision making; development of cash flow statements, alternative investment criteria, risk, legal, financing, and tax analysis, operating, financing investment and reversion decisions.

FIN 144. Real Estate Market Analysis. 3 Units
Prerequisite(s): FIN 19 or FIN 101; must be Business Major (any concentration) or Real Estate and Land Use Minor.
Term Typically Offered: Fall, Spring

Introduction to real estate markets, economic analysis of property markets, and impact of local governments on real estate markets. Topics include space and asset markets; location, land use and competitive bidding; land markets, housing markets, and site selection; economic growth and real estate markets, office, retail, and industrial markets; impact of local governments on real estate markets; tools of market analysis, computer applications and geographic information systems.

FIN 145. Real Estate Development and Land Use. 3 Units
Prerequisite(s): FIN 19 or FIN 101; must be Business Major (any concentration) or Real Estate and Land Use Minor.
Term Typically Offered: Fall, Spring

Process of real estate development and the federal and state laws that regulate development. Topics may include creating industrial real estate, office space, shopping centers, and hotel/recreation facilities, strategy, market and feasibility analysis; site planning/design; capital cost analysis; construction; financial structuring; federal and state laws that regulate environment impact; land use and real estate development. Emphasis on case studies and a project analysis.

FIN 149. Real Estate Analytics. 3 Units
Prerequisite(s): FIN 19 or FIN 101; must be Business Major (any concentration) or Real Estate and Land Use Minor.
Term Typically Offered: Fall, Spring

Examines contemporary and emerging issues in real estate trends, space and asset market equilibrium, land use controls and regulation, market analysis, mortgage markets, property markets, real estate cycles, real estate development, real estate finance and investments, real estate securities, and/or real estate taxation. Use of computer software and applications are emphasized to understand real estate analytics and geographic information systems applications to real estate data.
FIN 150. Capstone in Professional Financial Planning. 3 Units
Prerequisite(s): ACCY 171, FIN 135, FIN 136, FIN 138 and FIN 140; FIN 136 and/or FIN 140 may be taken concurrently.
Term Typically Offered: Spring only

This course will engage the student in critical thinking and decision-making about personal financial management topics in the context of the financial planning process. The purpose of this course is to refine and develop skills needed for personal financial planners when working with individuals, families, and business owners in meeting financial needs and objectives.

FIN 160. Student Investment Fund Management. 3 Units
Prerequisite(s): FIN 134, FIN 135, or FIN 136 with a final posted grade of B- or higher or FIN 101 with a final posted grade of A- or higher; must be in Bachelor of Science in Business Administration major or minor
Term Typically Offered: Fall, Spring

Students will manage a real investment portfolio by applying theories of investment analysis and portfolio management. Topics include economic analysis, valuation theories, risk measurement and management, performance measurement, and benchmarking.

FIN 190. Multinational Business Finance. 3 Units
Prerequisite(s): FIN 101 or instructor permission. Prior additional course in finance or international business recommended but not required.
Term Typically Offered: Fall, Spring

Principles of international financial management. Issues covered include the international environment of financial management, uses of foreign exchange spot, forward, futures, options, and swap markets, foreign exchange risk management, international investment and financing decisions.

FIN 194. Cooperative Education Experiences in Real Estate. 6 - 12 Units
Prerequisite(s): FIN 19, FIN 142 and a minimum overall GPA of 2.5; Business major only
Term Typically Offered: Fall, Spring

In-depth supervised work experience in Real Estate and Land Use Affairs. This supervised work experience allows the student to become familiar with the practices of the real estate industry and/or governmental agencies.

Note: Open to all upper division students subject to permission. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

FIN 195. Internship in Finance. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.

Note: Open to upper division students, subject to permission of the Finance Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only.
Credit/No Credit

FIN 195A. Internship in Real Estate and Land Use Affairs. 3 - 6 Units
Prerequisite(s): FIN 19 and FIN 142. Minimum Sacramento State GPA of 2.5 required; open to declared business administration majors only
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

FIN 196A. Exper Offer Finance. 3 Units
Prerequisite(s): FIN 135 with a final posted grade of B- or higher and instructor’s consent.
Term Typically Offered: Fall, Spring

Students will manage a real investment portfolio by applying theories of investment analysis and portfolio management. Topics include economic analysis, valuation theories, risk measurement and management, performance measurement, and benchmarking.

FIN 199. Special Problems in Finance. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Credit/No Credit

FIN 200. Financial Reporting and Analysis. 3 Units
Term Typically Offered: Fall

Designed for business students with prior knowledge of accounting who intend to use corporate financial statements intensively in valuation, credit or equity analysis, or strategic competitor analysis. Topics include inventory, pensions, business combination, income tax and other current issues for their impacts on financial statement. Emphasis on financial statement analysis and interpretation of financial disclosures for improving risk assessment, forecasting, and decision-making.

FIN 210. Financial Institution Management. 3 Units
Term Typically Offered: Fall, Spring

Develop an understanding of the theory and practice of the management of financial institutions. Emphasis is placed on risk measurement and management. Financial institutions include commercial banks, investment banks, savings banks, credit unions insurance companies and financial companies such as mutual funds.

FIN 220. Corporate Finance. 3 Units
Term Typically Offered: Fall, Spring

Investigate the principles that corporations use in their investing, financing, and day-to-day management decisions. Topics include financial statement analysis, capital investment decision, capital structure, dividend policy, mergers and acquisitions, corporate governance and its impact on valuation.
FIN 230. Equity Analyses. 3 Units
Term Typically Offered: Fall, Spring
Covers advanced concepts and techniques essential to asset valuation. Key topics include, but not limited to, free cash flow, price multiples, asset-based and contingent claim valuations. Applications of various valuation techniques are emphasized. Provides a framework for selecting the most appropriate model for specific circumstances.

FIN 240. Fixed Income. 3 Units
Term Typically Offered: Fall, Spring
Discuss a wide range of fixed income products. Topics include trading concepts and mechanics, pricing, duration, convexity, term structure of interest rates, and options embedded fixed income securities.

FIN 250. Derivatives. 3 Units
Term Typically Offered: Fall, Spring
Discuss major types of financial derivatives and derivative markets. Topics include forward contracts, futures, options, SWAP’s and credit derivatives. Emphasis on characteristics, trading process, pricing, parity conditions, risk involved, and investment strategies for different financial derivatives.

FIN 260. Alternative Investments. 3 Units
Term Typically Offered: Fall, Spring
Discuss major types of alternative investments including real estate, hedge funds, commodities, private equity, and venture capital. Emphasis on the technical aspects and the performance analyses of alternative investments, their advantages and disadvantages, role of alternative investments, and strategies of selection.

FIN 270. Portfolio Management. 3 Units
Term Typically Offered: Fall, Spring
Cover topics of asset management utilizing the major aspects of Markowitz portfolio theory, Capital ASSET Pricing Model, and Arbitrage Pricing theory. Discuss the comprehensive approach, starting with portfolio construction and asset selection, following with portfolio performance evaluation, and concluding with rebalancing strategies. Introduce and utilize worksheet modeling techniques which are useful for portfolio management.

FIN 280. Global Financial Markets. 3 Units
Term Typically Offered: Fall, Spring
Cover advanced concepts and applied techniques essential to understand the mechanism of the global financial markets. Key topics include global capital allocation, international tax management, foreign exchange markets, derivatives, parity relationships, and others. Focuses on the core concepts and techniques are applied in the global financial markets using different case studies. Integrate the key principles of finance and extends them to a multinational setting. Topics follow the Chartered Financial Analyst (CFA) Level 1 and 2 Exam on equity valuation.

FIN 299. Special Problems in Finance. 3 Units
Prerequisite(s): Classified graduate status or instructor approval
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work.
Note: Enrollment requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs; 6 units maximum; May be repeated for credit.

FIN 500. Culminating Experience Project in Finance and Ethics. 3 Units
Prerequisite(s): Advancement to candidacy; 12 units of any combination of the following courses: FIN 200, FIN 210, FIN 220, FIN 230, FIN 240, FIN 250, FIN 260, FIN 270 and FIN 280.
Term Typically Offered: Fall, Spring
Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MS in Finance program as required in Title V of the CA Educational Code. The course also covers the ethical conducts and professional standards as outlined in CFA institute standards.
Note: May be repeated for credit

GM 105. Strategic Management. 3 Units
Prerequisite(s): Completion of all other upper-division core courses, except MIS 101.
Term Typically Offered: Fall, Spring, Summer
This capstone course focuses on the integration of functional areas of a business and requires students to determine strategies/policies at the general-management level. Students address problems and issues faced by companies from a general management perspective which integrates accounting, financial, marketing, human resources, and operations in relation to the environment within a framework of balance between profit or cost-effectiveness and social responsibility.

GM 170. Fundamentals of Business Strategy. 3 Units
Prerequisite(s): HROB 101, MKTG 101, FIN 101, and OPM 101.
Term Typically Offered: Fall, Spring
Basics of business-level strategy and how they are applied in modern organizations. Underlying primary principles, theories and practices are examined and discussed. Cases presenting actual, real-world situations will be analyzed to derive solutions to the business-level opportunities and problems facing strategic managers.
Note: General Management students must complete all functional core courses before taking GM 170.

GM 194. Cooperative Education Experience in Management. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.5.
Term Typically Offered: Fall, Spring
In-depth supervised work experience in management for the purpose of exposing the student to comprehensive management experience in business, governmental, or service agencies.
Note: Open to all upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit
GM 195. Internship in Strategic Management. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring
Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only.
Credit/No Credit

GM 199. Special Problems in Strategic Management. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Credit/No Credit

HROB 101. The Management of Contemporary Organizations. 3 Units
Term Typically Offered: Fall, Spring
Overview of managerial and organizational theory and practice, including a discussion of the contingencies that influence an organization's effectiveness and efficiency. Focus is on the decision making and problem-solving processes that affect managerial performance in planning, implementing, and controlling the work of contemporary organizations.

HROB 151. Management of Human Resources. 3 Units
Prerequisite(s): BSBA major (any concentration), Real Est and Land Use minor, HROB minor, or Public Health major
Term Typically Offered: Fall, Spring
Seminar covering contemporary processes and practices pertaining to the organization and management of personnel including employee selection, development, motivation, evaluation and remuneration, and union relations. Emphasis on the management of human resources in task oriented organizations. Instructional method provides for case method, laboratory exercises, and small group discussion.

HROB 152. Management Skills Seminar. 3 Units
Prerequisite(s): HROB 101; HROB 151 recommended.
Term Typically Offered: Fall, Spring
Development of management awareness of the dynamics of organizational behavior. Emphasis on case discussions, small group action and role playing for the acquisition of knowledge and skills for effective managing and changing in an organization.

HROB 153. Employment Law. 3 Units
Term Typically Offered: Fall, Spring
Provides students with an overview of the employment laws that impact and influence the workplace including laws regarding employment discrimination, disability discrimination and accommodation, employment leaves of absence, workplace harassment, employment torts and contracts, wage/hour regulations, employee privacy, intellectual property in the employment setting, and other emerging issues in employment law and personnel management. The impact of law on the management of human resources will be the focus of this class.

HROB 154. Strategic Human Resources Management. 3 Units
Prerequisite(s): HROB 151, HROB 152, HROB 153.
Term Typically Offered: Fall, Spring
The objective of this capstone course is to identify contemporary strategies to improve individual and organizational performance. Utilizes a strategic human resource management perspective and incorporates Human Resource Management and Organizational Behavior theories for practical implementation in organizations. Links such concepts as compensation, performance management, law, conflict management, communication, diversity, ethics, and managerial skill building towards preparing for the future of managing individuals in organizations.

HROB 155. Conflict Management and Negotiation. 3 Units
Term Typically Offered: Fall, Spring
Analyzes conflict in organizations, and strategies and processes for effective settlement or resolution of that conflict. Emphasis on the practical aspects of institutional and extra-institutional processes outside the conventional legal system. These dispute resolution methods include negotiation, mediation, arbitration and fair hearing. Students participate in a variety of exercises including simulated negotiations. Through these exercises students explore the basic theoretical models of bargaining and test and improve individual negotiation skills. Class format includes lecture, class discussion, simulation/role-play, expert guests and video demonstrations.

HROB 156. Current Trends and Emerging Issues. 3 Units
Term Typically Offered: Fall, Spring
Designed to provide an in-depth examination of current trends and emerging issues in human resources management and/or organizational behavior. Provides students the opportunity to better understand the latest people-related challenges organizations face. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 157. Labor Relations. 3 Units
Term Typically Offered: Fall, Spring
Employer-employee relations in historical and contemporary contexts, with emphasis on the development of labor and management institutions and philosophies, public policies, collective bargaining, and contract administration in the private and public sectors.
HROB 158. Special Topics in Human Resource Management. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of a current human resource management topic(s), from both a theoretical and practitioner perspective. Possible topics include, but are not limited to, outsourcing and staffing trends, merit-based performance and compensation plans, technology-based recruiting and selection practices, and innovations in training and career development. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 159. Special Topics in Organizational Behavior. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of a current organizational behavior topic(s), from both a theoretical and practitioner perspective. Topics include, but are not limited to, family-work relations, stress and burnout, workplace aggression, leadership and motivation, organizational politics and culture, attitudes and change, and organizational learning. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 194. Cooperative Education Experiences in Human Resources Management. 6 - 12 Units
Prerequisite(s): HROB 151 and a minimum overall GPA of 2.5.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in human resources management. This supervised work experience allows the student to become familiar with the practice of human resources management in businesses or governmental agencies.

Note: Open to all upper division students subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

HROB 195. Internship in Human Resources Management. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.

Note: Open to upper division students, subject to permission of the Management Area. Open to declared business administration majors only. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

HROB 199. Special Problems in Human Resources Management. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

IBUS 180. Sustainability Business in Global Economy. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to the emerging field of sustainability in business and the growing focus on the social, environmental, and economic performance of businesses in global economy. The course presents scientific, moral, and business cases for adopting sustainability.

IBUS 190. International Business. 3 Units
Term Typically Offered: Fall, Spring, Summer

Analyzes international business: foreign markets; export-import trade; licensing agreements; foreign exchange problems; role of the multinational firm; intergovernmental trade agreements; balance of payments; decision making in foreign environments.

IBUS 195. Internship in International Business. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.

Note: Open to upper division students, subject to permission of the Management Area. Open to declared business administration majors only. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

IBUS 199. Special Problems in International Business. 1 - 3 Units
Term Typically Offered: Fall

Individual projects or directed reading for students qualified to carry on independent work.

Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Center, Tahoe 1030.

Credit/No Credit

MBA 201. Accounting. 2 Units
Term Typically Offered: Fall, Spring

Concepts and models of financial accounting are introduced. Included are the analysis, interpretation and reporting of financial events.

MBA 202. Business Communication. 2 Units
Term Typically Offered: Fall, Spring

Stresses fundamental communication principles and techniques for effective business writing in diverse managerial situations. Participants complete a variety of writing activities, including responding to management communication cases and evaluating written communications using holistic and analytic tools. Within this context, participants are provided an opportunity to achieve an understanding of syntactical and grammatical patterns while improving analytical and logical business writing skills.

Note: This requirement will be waived for students who achieve a score of 4.5 or higher on the Analytical Writing Assessment (AWA) exam. Graduate Writing Intensive (GWI) course.
MBA 203. Legal Environment of Management. 2 Units
Term Typically Offered: Fall, Spring
Intensive study of important aspects of law for managers, including law as an instrument of social and political control. Analyzes selected problems in areas of private law such as contract, tort, business organizations, and agency. In addition, selected issues of administrative law and government regulation of business will be investigated.

MBA 204. Management and Organization Concepts. 2 Units
Term Typically Offered: Fall, Spring
Evolution of management and organization thought; examination of behavioral science variables influencing working relationships among managers, individuals and groups; the study of political and social behavior in organizations; identification, analysis, and synthesis of contemporary concepts and administrative practices; investigation of organization structure, function, and properties leading to an understanding of administration and organization.

MBA 205. Introduction to Managerial Issues in Information Technology. 2 Units
Term Typically Offered: Fall, Spring
Explores from a management perspective, the impact of IT on individuals, organizations, and society. Focuses on how organizations use information systems to solve strategic and operational problems. Topics may include functional information systems, decision support systems, enterprise systems, interorganizational information systems, e-commerce, and business analytics. The relationship between managers and IT personnel will be defined. May include case studies and appropriate software packages.

MBA 206. Managerial Statistics Analysis. 2 Units
Term Typically Offered: Fall, Spring
Computer-based course in data analysis. Business case studies are used to differentiate between common and specific sources of statistical variation and to construct statistical models such as multiple regression, times series, and statistical quality control. Emphasis is placed on intuitive statistical thinking and communication of results.

MBA 207. Finance. 2 Units
Prerequisite(s): ECON 204, MBA 201, MBA 206.
Term Typically Offered: Fall, Spring
Theory and practice in determining the need for, the acquisition of, and the use of funds by organizations. Topics include time value of money, financial analysis, management of working capital, cost of capital, capital budgeting, long-term financing, dividend policy, and internal financing.

MBA 208. Marketing. 2 Units
Prerequisite(s): ECON 204, MBA 201, MBA 203.
Term Typically Offered: Fall, Spring
Application of decision making in solving marketing problems; such as product, place, promotion and price decisions with reference to consumers and users.

MBA 209. Production and Operations Analysis. 2 Units
Prerequisite(s): ECON 204, MBA 201, MBA 206.
Term Typically Offered: Fall, Spring
Study of operational systems; fundamental concepts, tools, and methodologies required to analyze and solve problems of the operations manager. Topics include: work design, facilities design, scheduling, quality control, and inventory management.

MBA 210. Managerial Accounting. 3 Units
Term Typically Offered: Fall, Spring
Management accounting data characteristics and application to internal decisions made by managers. Topics cover management accounting as a tool of business management. Topics generally include product costing, managers’ use of accounting data in specific decision frameworks, performance evaluation, and relevant versus strategic analysis. Class participation is encouraged.

MBA 220. Financial Management. 3 Units
Term Typically Offered: Fall, Spring
Financing of corporations and management of corporate resources, short-term and long-term, stressing maximizing shareholder wealth. The case method is used extensively. Both oral and written communication skills are stressed.

MBA 221. Financial Markets. 3 Units
Prerequisite(s): MBA 220 or instructor permission.
Term Typically Offered: Fall, Spring
Behavior of equity, debt, currency, and derivatives markets and the linkages between these markets. Presents the principles of valuations of instruments traded in these markets and the use of these instruments to investors, speculators, hedgers and arbitrageurs.

MBA 222. Security Analysis and Portfolio Management. 3 Units
Prerequisite(s): MBA 220 or instructor permission.
Term Typically Offered: Fall, Spring
Evaluation of stocks and bonds from the investor’s viewpoint. Interpretation of issuers’ financial statements to estimate potential future earnings and dividends; and evaluation of the securities’ risks and expected returns through analysis of economic, industry and market environment in order to develop conclusions as to the securities’ suitability for inclusion in various types of portfolios. Ethical issues faced by practicing security analysts and portfolio managers.

MBA 223. Asset Valuation. 3 Units
Prerequisite(s): MBA 220 or instructor permission.
Term Typically Offered: Fall, Spring
Advanced concepts and techniques essential to asset valuation. Key topics include, but not limited to, free cash flow, price multiples, asset-based and contingent claim valuations. Applications of various valuation techniques are emphasized.

MBA 224. Advanced Investment Strategies. 3 Units
Prerequisite(s): MBA 222 (may be taken concurrently) or permission of instructor.
Term Typically Offered: Fall, Spring
Theoretical and empirical applications of fund formation models. Emphasis is placed on model development strategies based on analyzing secondary sources of financial data. The quality of models is assessed in terms of their logical consistency, robustness of underlying theoretical assumptions, and predicative power. Development, analysis and predicative assessment are conducted within the Excel environment.
MBA 225. Financial Aspects of Health Care Administration. 3 Units
Term Typically Offered: Fall, Spring
Financing in health care institutions will be studied; including planning and control features involving budgets, funds flow, funding sources, and factors affecting finance in the health care industry. Analyzes will be made of the relationships and effects on health care finance of such factors as labor, business, government, insurance, research, and demography.

MBA 230. Behavior Science Applications in Management. 3 Units
Term Typically Offered: Fall, Spring
Behavioral science theories, concepts, and practices in current use in private and public organizations. Critical evaluation of research supporting those practices.

MBA 231. Managing in High Performance Work Organizations. 3 Units
Term Typically Offered: Fall, Spring
This course focuses on contemporary problems, issues, and objectives relating to the value of collaboration with control in maximizing human capital effectiveness in high performance work organizations. Course work will include research projects, experiential case studies and in-class simulations to help students better understand human capital effectiveness and learn how to serve multiple stakeholders' interests across different sectors such as private, public, healthcare and information technology.

MBA 232. Negotiation and Relationship Management. 3 Units
Term Typically Offered: Fall, Spring
Investigation of the formal and informal methods of dispute resolution including negotiating, litigation, administrative hearings, arbitration, mediation, ombudsperson, summary jury trial, private judging, and fact finding. Emphasizes the application of these methods to organization, business, and public sector disputes.

MBA 233. Seminar in Organization Development. 3 Units
Prerequisite(s): MBA 230 or equivalent.
Term Typically Offered: Fall, Spring
Seminar focusing on individual and organization responses to a changing environment. Includes assumptions and values of organization development; action research; personal, team and intergroup interventions; consultant-client relationships and instrumentation. Cases, laboratory experience, workshop and field analysis techniques are utilized.

MBA 234. Industrial Relations. 3 Units
Term Typically Offered: Fall, Spring
Dual approach emphasizing in-depth analysis of both the philosophical and the practical aspects of industrial relations. The impact of social, economic, and political forces, and their interaction with union and management institutions and public policies. Analyzes relationships between organized employees and employers, the bargaining process, strategies and issues, contract administration, and impasse resolution processes.

MBA 235. Management Of Innovation. 3 Units
Term Typically Offered: Fall, Spring
Synthesis of specialized problems relating to the acquisition, introduction, and utilization of innovations and technological advances by managers in business, industry, government, profit or nonprofit organizations. Current research, thinking methodology dealing with the economics and social impact, sources, barriers, and transfer mechanisms of innovations and technological advances will be investigated.

MBA 236. Current Topics and Processes in Organizational Development. 3 Units
Term Typically Offered: Fall, Spring
Explores contemporary frameworks for dealing with change in today's organizations. Contemporary processes and topics are presented in the context of these frameworks. Lectures and readings may be supplemented by experiential work and firsthand observations of local organizations.

MBA 240. Marketing Management. 3 Units
Term Typically Offered: Fall, Spring
Marketing policy for channels of distribution, pricing brands, advertising, and sales as interrelated at the executive level. Designed to develop capacity for sound decision making by marketing managers.

MBA 241. Marketing and Its Environments. 3 Units
Term Typically Offered: Fall, Spring
Analyzes the firm's or public agency's external environments, forces of change within them, and their influence on the organization's strategies and actions.

MBA 242. Marketing Problems. 3 Units
Term Typically Offered: Fall, Spring
Consideration of current problems and issues in marketing from the perspective of the individual firm or public agency.

MBA 243. Global Marketing Environment. 3 Units
Term Typically Offered: Fall, Spring
An in-depth coverage of a marketing functions in global environment. Explores traditional and contemporary theories, strategies, practices, and issues of international marketing, develops skills required for entry and maintaining presence on the foreign markets.

MBA 244. Research Methodology. 3 Units
Term Typically Offered: Fall, Spring
MBA 251. Real Estate Finance and Investment. 3 Units
Term Typically Offered: Fall, Spring

Concept and methods used to analyze equity investment in income-producing properties such as apartments, office buildings, and retail. Topics include market analysis, leasing and property income streams, financial structuring, taxation of real estate operations and transactions, the theory and methods used to assess the performance of individual real estate projects, alternative ownership structures, recent innovations in real estate capital markets, material on regulatory restrictions, taxation, and mixed assets portfolio analysis. Use of computer models for investment decision-making.

MBA 252. Mortgage Markets: Institutions, Securities, and Strategies. 3 Units
Term Typically Offered: Fall, Spring

Provides an understanding of mortgage markets and the knowledge required to make financing and lending decisions. Topics include sources of funds, mortgage design and analysis of financing alternatives; mortgage origination, risks in real estate loans, forecasting loan performance, loan modifications and workout strategies, foreclosure, bankruptcy and REOs; secondary mortgage markets and mortgage-backed securities; development and construction financing, risks in construction performance and project management; and management of interest rate risk. Use of computer models for decision-making.

MBA 253. Seminar in Real Estate Development. 3 Units
Prerequisite(s): MBA 251, PPA 250, advanced to candidacy, and instructor permission.
Term Typically Offered: Fall, Spring

Capstone course in urban land development. Case problems and theoretical issues in such areas as debt and equity financing, feasibility analysis, land use regulation, market analysis, risk management, site selection, and taxation of income-producing properties.

MBA 250. Management of Technology Intensive Enterprises. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Use of information technology (IT) as management resource. Focus is on management decision-making related to telecommunications, data-bases, system development, and decision support systems. Use of technology to reengineer the business organization.

MBA 261. Integrated Business Process Management. 3 Units
Term Typically Offered: Fall, Spring

Study the concept of integrated business process management using ERP tools and software to enhance growth and productivity as the diverse functions of an organization are combined into one comprehensive, interrelated, and optimized system. Demonstrate how enterprise level information systems can achieve organizational goals by providing decision makers with accurate, consistent, current, timely, and relevant information and knowledge. Understand the techniques and skills for successful implementation of ERP systems. Explore the latest trends and development in ERP technologies.

MBA 262. Integrated IT in Healthcare. 3 Units
Term Typically Offered: Fall, Spring

This course examines methodologies, tools and applications used for developing and managing information to improve service and make decisions in healthcare. Topics include design, implementation and management of enterprise information systems, health information systems, and electronic medical records, along with other managerial issues such as information privacy and security.

MBA 263. Project and Outsourcing Management. 3 Units
Term Typically Offered: Fall, Spring

Cover the knowledge, skills, and principles required to organize, plan, and control projects and outsourcing activities. Topics include a review of project characteristics and risks, development executive objectives, organization structure and interfaces, information management, and control techniques.

MBA 264. Business Intelligence. 3 Units
Term Typically Offered: Fall, Spring

Cover the processes, methodologies, infrastructure, framework, and current practices used to transform business data into useful information and knowledge for IT-enabled managerial decision support and performance improvement. Data-orientated techniques for corporate performance management and decision making, as well as methodologies for business process improvement, are emphasized. Foundation knowledge in data storage and retrieval, logical data models for database management systems and data warehouses, and security-related issues are discussed.

MBA 270. Global Business Management. 3 Units
Term Typically Offered: Fall, Spring

Provides graduate students an understanding of the management approaches of multinational corporations in dealing with operational differences in various countries. Topics include such areas as: foreign investment decisions, relations with host governments, and organizational planning.

MBA 271. Integrated Entrepreneurship Management. 3 Units
Term Typically Offered: Fall, Spring

Explore multi-dimensions of entrepreneurship including the entrepreneurial initiatives in a corporate context. As a nascent entrepreneur, students are to evaluate new venture opportunities and to understand the entire process of a new venture creation. In corporate settings, students are to understand the innovation and change management of established firms to accomplish their sustainable competitive advantages.

MBA 272. Entrepreneurial Resources Management. 3 Units
Term Typically Offered: Fall, Spring

Study the concepts of identifying and managing talent in entrepreneurial ventures. Demonstrate through theories, empirical evidence, case studies and simulations, the value of sustainable human resource management in new and established enterprises.
MBA 280. Value Chain Integration.  3 Units
Prerequisite(s): classified or conditionally classified graduate student in the College of Bus Admin
Term Typically Offered: Fall, Spring

Study the current state of enterprise value chains from an operation management perspective. Discuss contemporary issues regarding supply and operations management of organizations including profit and nonprofit, service and manufacturing organizations. Integrative topics will be selected among issues affecting an organization's value chain at operational, strategic, and economic levels.

MBA 281. Quality and Process Improvement in Healthcare.  3 Units
Prerequisite(s): classified or conditionally classified graduate student in the College of Bus Admin
Term Typically Offered: Fall, Spring

Discuss contemporary developments and methods in managing quality and process improvement in the healthcare industry. Topics include: healthcare quality, leadership, teambuilding and project management; quality management processes and tools; quality measurement and management; human participation and organizational design in healthcare quality management; quality and process improvement initiatives; Lean and Six Sigma methodologies for continuous process improvement; process and systems integration; and emerging trends in healthcare quality management.

MBA 282. Global Supply Chain Management.  3 Units
Prerequisite(s): classified or conditionally classified graduate student in the College of Bus Admin
Term Typically Offered: Fall, Spring

A comprehensive study of the basic concepts, methods, processes, and strategies used in the design, development and management of global supply chains. Topics include: defining the supply chain on a global scale, designing global supply chain networks, global procurement, strategic alliances, global logistics, supply chain-orientated product design, quantitative and qualitative tools for supply chain management and current industry initiatives.

MBA 294. Cooperative Education Experience in Management.  6 - 12 Units
Prerequisite(s): Minimum overall GPA of 3.0.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in management for the purpose of exposing the students to comprehensive management experience in business, government, or service agencies.

Note: Open to all classified graduate students, subject to permission of the Associate Dean for Graduate and External Programs. Units do not apply toward degree.

Credit/No Credit

MBA 295A. Internship In Finance.  3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.

Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 295B. Internship In Marketing.  3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.

Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 295C. Internship in Operations Management.  3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.

Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 295D. Internship in Organizational Behavior and Management.  3 Units
Prerequisite(s): Classified graduate status; completion of graduate foundation courses plus 6 units of the second year requirement, minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.

Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit
MBA 295E. Internship in Urban Land Development. 3 Units
Prerequisite(s): Classified graduate status; completion of graduate foundation courses plus 6 units of the second year requirement, minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring
Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.
Credit/No Credit

MBA 296. Experimental Offerings in MBA. 3 Units
Term Typically Offered: Fall, Spring
When a sufficient number of qualified students apply, a faculty member may conduct a seminar on a designated advanced topic in the MBA program.
Note: May be repeated for credit

MBA 299A. Special Problems in Finance. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions are obtained from Tahoe Hall 1035.
Credit/No Credit

MBA 299B. Special Problems in Marketing. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions are obtained from Tahoe Hall 1035.
Credit/No Credit

MBA 299C. Special Problems in Operations Management. 1 - 3 Units
Prerequisite(s): Classified graduate status
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions are obtained from Tahoe Hall 1035.
Credit/No Credit

MBA 299D. Special Problems in Organizational Behavior and Management. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval of the Graduate Program Office. Petitions to be obtained from the CBA Graduate Programs Office, Tahoe Hall 1035.
Credit/No Credit

MBA 299E. Special Problems in Urban Land Development. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Graduate Program Office. Petitions to be obtained from the CBA Graduate Programs Office, Tahoe Hall 1035.
Credit/No Credit

MBA 500A. Thesis. 3 Units
Prerequisite(s): Advanced to candidacy; completion of MBA 244.
Term Typically Offered: Fall, Spring
Completion of a thesis approved for the Master's degree.

MBA 500B. Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MBA 244.
Term Typically Offered: Fall, Spring
Completion of a project approved for the Master's degree.

MBA 500C. Comprehensive Examination. 1 Unit
Prerequisite(s): Advanced to candidacy. For comprehensive examination for MBA only, completion of Program Requirements (MBA 210, MBA 220, MBA 230, MBA 420, MBA 270, MBA 280).
Term Typically Offered: Fall, Spring

MBA 501. Culminating Experience Project in Business and Strategy. 3 Units
Prerequisite(s): Advanced to candidacy, Fully classified
Term Typically Offered: Fall, Spring
Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MBA program as required in Title V of the CA educational Code. The course also covers the competitive strategy of a firm, investigates competitive position, strategic capabilities, inter-firm dynamics, and strategic levers of firms. It integrates the accumulative knowledge, skills and techniques delivered in the program to review the strategy process executives employ for effective decision making.
Note: May be repeated for credit.
MGMT 10.  Introduction to Business Law.             3 Units  
Term Typically Offered: Fall, Spring
Study of business law for the future business professional. Introduces students to basic business problems that have legal consequences. Encourages the identification of ethical concerns along with the ability to anticipate potential legal problems with the goal of preventing them. Covers introduction to the legal system; court procedures; contracts and sales; business organizations; real and personal property; labor and employment law; product liability, and the government regulation of business.

MGMT 20.  Introduction To Business.                 3 Units  
Term Typically Offered: Fall, Spring
Provides an overview of the various basic functions of business and how they interface. Topics will include accounting, finance, marketing, human resources management, management information systems, operations management, real estate, and international business.

MGMT 21.  First Year Seminar: Becoming an Educated Person.  3 Units  
General Education Area/Graduation Requirement: Understanding Personal Development (E)  
Term Typically Offered: Fall, Spring
Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

MGMT 101.  Legal Environment of Business.          3 Units  
Prerequisite(s): Must be a Business pre-major, Business major (any concentration), a business minor, a Construction Mgmt major, a Mech Engr Tech major, or a Music (Music Mgmt) major to enroll in this course.  
Term Typically Offered: Fall, Spring
Study of business law for the business professional. Aside from investigating substantive law, the course stresses critical thinking and analytical evaluation of contemporary business problems. Encourages the identification of ethical concerns along with the ability to anticipate potential legal problems with the goal of preventing them. Covers introduction to the legal system; court procedures; contracts and sales; business organizations; real and personal property; labor and employment law; product liability, and the government regulation of business. OBE 16 or the equivalent is recommended.

MGMT 102.  Business Communications.                 3 Units  
Prerequisite(s): Completion of Area A in General Education and ENGL 20.  
Recommend COMS 2 and COMS 4.  
Term Typically Offered: Fall, Spring
Provides basic concepts for understanding and practice of communication in the changing world of business for managers and professionals. It examines the use of language and conversations in business settings and their role in coordinating actions, resolving breakdowns in work performance, and providing customer satisfaction. Topics include: Practice in professional styles of business writing and formats, preparation of a formal report, development of competence in business conversation skills (written, electronic, and oral), and other selected topics. International, technical, and linguistic developments are integrated into the various applications of business communication.

MGMT 117.  Business, Ethics and Society.            3 Units  
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.  
General Education Area/Graduation Requirement: Writing Intensive  
Graduation Requirement (WI), GE AREA D  
Term Typically Offered: Fall, Spring
Investigation of contemporary business issues and management dilemmas in relation to broad social concerns. Focus is upon public and private decision making in the business environment and how business practices, ethics, and social concerns interrelate. Topics such as the nature of property and profits, efficiency and human values, the balancing of claims of owners, employees, customers, and others in community, corporate responsibility, corporate governance, government regulation and international dimensions of public policy will be covered.

MIS 1.  Word Processing.                             1 Unit  
Term Typically Offered: Fall, Spring
The course teaches Microsoft Office Word that establishes a student's fundamental computer skills required to perform business related tasks. Topics include developing and refining a document; identifying and correcting errors; formatting, modifying and printing documents; working with pictures, graphics, tables and charts; creating reports, forms, references and mailings; securing content and sharing documents, exploring advanced document features and macros, etc.  
Credit/No Credit

MIS 2.  Spreadsheets.                                1 Unit  
Term Typically Offered: Fall, Spring
The course teaches Microsoft Office Excel that establishes a student's fundamental computer skills required to perform business related tasks. Topics include creating and formatting a worksheet; summarizing and analyzing data; using decision making tools; working with logical, statistical, database and financial functions, sharing data with other applications, etc.

Note: Not open to students receiving credit for CSC 6B.
Credit/No Credit

MIS 3.  Presentation Graphics.                      1 Unit  
Term Typically Offered: Fall, Spring
The course teaches Microsoft Power Point that establishes a student's fundamental computer skills required to perform business related tasks. Topics include creating, refining and delivering presentations; working with graphics, tables and charts; inserting and enhancing pictures, shapes, sound and video; using templates, slide masters and text boxes, printing, securing and sharing presentations, etc.
Credit/No Credit

MIS 4.  Database Applications.                      3 Units  
Term Typically Offered: Fall, Spring
Use of database management systems (DBMS) to provide students with fundamental information retrieval skills required to perform business related tasks. Topics include basic DBMS operations, working with tables, queries, forms, reports and data analysis.

Note: Students will be required to purchase an online learning application to facilitate skill development.
Credit/No Credit
MIS 10. Business Applications. 2 Units
Term Typically Offered: Fall, Spring

The course teaches the use of spreadsheets to establish a students’ fundamental computer skills required to perform business related tasks. Topics include basic spreadsheet operations, working with charts and graphics, application of formulas and spreadsheet presentation formatting.

Note: Students will be required to purchase an online learning application to facilitate skill development.

MIS 15. Introduction to Business Programming. 3 Units
Term Typically Offered: Fall, Spring

Introduction to object oriented programming language. Topics include use of simple data structures and data types, arrays, strings, input-output functions, file processing, and flow control.

MIS 101. Computer Information Systems for Management. 3 Units
Term Typically Offered: Fall, Spring

Explores the application of computers to the organizational environment with a management perspective. Topics may include transaction processing systems, management reporting, decision support systems, strategic planning, security, controls and acquisition of hardware, software and services. The interface between the information systems professional and the manager will be defined. Case studies and use of appropriate software packages may be included.

MIS 120. Advanced Object-Oriented Business Programming. 3 Units
Prerequisite(s): MIS 15.
Term Typically Offered: Fall, Spring

Advanced course in programming principles using an Object Oriented (OO) programming language. Topics will focus on object-oriented (OO) programming including the design and development of OO applications, object classes, inheritance, polymorphism and encapsulation, and graphical user interface (GUI) application development including contrasting event-driven and procedural programming. Assignments will focus on problem-solving in a business context.

MIS 122. Object-Oriented Programming for Business in Java. 3 Units
Prerequisite(s): MIS 15 or CSC 15.
Term Typically Offered: Fall, Spring

Advanced course in programming principles using an Object Oriented (OO) programming language. Topics will focus on object-oriented (OO) programming including the design and development of OO applications, object classes, inheritance, polymorphism and encapsulation, and graphical user interface (GUI) application development including contrasting event-driven and procedural programming.

MIS 124. Web Development for Business Applications. 3 Units
Prerequisite(s): MIS 120.
Term Typically Offered: Fall, Spring

Examines the technologies and principles of modern Web development in the creation of Web-based business applications. Emphasis will be given to client-side and server-side technologies and include the topics of basic Web technologies, forms, database access, frameworks, and Web services. Topics are accompanied by design principles, tools, and techniques for Web application development.

MIS 125. Mobile Business Application Development. 3 Units
Prerequisite(s): MIS 15
Term Typically Offered: Fall, Spring

Provides an introduction to the art and practice of mobile business application development on the Android or iOS platform. Topics will include, but are not limited to, business opportunities, challenges, and cost presented by mobile devices, user-driven design, personas, screen layouts, and use case diagramming. Students will design and build a variety of business applications throughout the course to reinforce learning and to develop real world competency.

MIS 140. Business Data Communication. 3 Units
Prerequisite(s): Business majors only
Term Typically Offered: Fall, Spring

Examines the basic terminology, hardware/software components, and issues with the establishment, configuration, and management of data communication networks in and across organizations. Topics include wired and wireless local area networks, wide area networks, the internet, and cloud infrastructure.

MIS 150. Database Systems for Business. 3 Units
Term Typically Offered: Fall, Spring

Involves the study of generalized database management systems. The study will include logical database models and physical base models based primarily on the relational and object-relational models. The student will create and manipulate a database utilizing an established database management system. The importance of data administration and other database related topics such as independence, integrity, privacy, query, backup, and recovery will be covered.

MIS 151. End-User Database Application Development for Business. 3 Units
Prerequisite(s): MIS 1, MIS 2, MIS 3 or approved equivalent.
Term Typically Offered: Fall, Spring

Introduction to end-user database application development in the business environment. Topics will focus on issues in the development of business database applications and include database concepts, organization, storage and retrieval of data, query and analysis with interactive software tools, informative and performance management reporting.

Note: Not open to MIS students.

MIS 160. Systems Development Life Cycle. 3 Units
Prerequisite(s): MIS 101 and MGMT 102
Term Typically Offered: Fall, Spring

Analyze, design, and develop business information systems to solve information needs of businesses and organizations. Topics include various systems analysis and design techniques, tools and methods for building new and/or integrated information systems.

MIS 161. Information Systems Practicum. 3 Units
Prerequisite(s): MIS 15, MIS 150, MIS 160, and Business major or minor.
Term Typically Offered: Fall, Spring

This course provides a comprehensive integration of MIS coursework through the completion of an information systems project. Topics include information systems development life cycle, project management, application development, database management, and security.
MIS 163. Business Process Engineering and ERP Configuration. 3 Units
Term Typically Offered: Fall, Spring

This course focuses on identifying and understanding business requirements, modeling business processes that incorporate the business requirements, and configuring the processes for their implementation in an enterprise resource planning (ERP) system. Students will gain insights to implementation issues and propose alternative solutions to overcome them. A project team environment further develops individual student’s communication and team skills.

MIS 170. Information Systems Security. 3 Units
Prerequisite(s): MIS 140
Term Typically Offered: Fall, Spring

This course provides a comprehensive study of IT security principles and of information systems. Emphasis will be placed on understanding the framework of IT security in enterprise IT infrastructure. Topics include information security concepts, security risks and vulnerabilities, common attacking techniques, technical and administrative countermeasures for modern enterprise IT infrastructure, such as encryption, authentication, access control, security policies and standards, and IT risk management and audit.

MIS 171. Enterprise Resource Planning Systems. 3 Units
Prerequisite(s): MIS 101
Term Typically Offered: Fall, Spring

Foundation, business functions, processes, data requirements, development, and management of ERP systems for sales, marketing, accounting, finance, production, supply chain and customer relationship management. Emphasis on re-engineering, integration, standardization, and methodologies of ERP systems.

MIS 173. Microcomputers for Managers. 3 Units
Term Typically Offered: Fall, Spring

For students who want to have more than the minimum required personal computer literacy knowledge. The topics covered are: hardware, system software, utility software, spreadsheet modeling, the Internet, and presentation graphics.

Note: Not open to MIS students.

MIS 181. Machine Learning Applications in Business. 3 Units
Prerequisite(s): DS 101 and MIS 150
Term Typically Offered: Fall, Spring

Applies modern machine learning applications in business to data analysis and problem solving. Topics are presented in the context of decision support and may include knowledge representation, neural networks, genetic algorithms, rule induction, fuzzy logic, case-based reasoning and intelligent agents.

MIS 182. Topics In MIS. 3 Units
Prerequisite(s): MIS 150, MIS 160.
Term Typically Offered: Fall, Spring

Current topics will be presented regarding the technical, managerial, and organization considerations affecting computer-based information systems. Topics may include programming languages and techniques, emerging technologies, and MIS development and implementation issues. Readings, topical research, case presentations, and/or projects will be required.

MIS 183. Business Intelligence Applications. 3 Units
Prerequisite(s): Business major and minor
Term Typically Offered: Fall, Spring

Advanced information technologies that extract non-trivial, actionable, and novel knowledge from data to achieve strategic goals of organizations. Emphasis on multidimensional data modeling, online analytic processing, data warehouse, and data mining.

MIS 191. Culminating Experience. 1 Unit
Prerequisite(s): Completion of all coursework in minor.
Term Typically Offered: Fall, Spring

Students demonstrate their knowledge and apply their skill sets from the minor to a working project, and conduct an executive-level, management-oriented presentation.

Note: Students must be in their final semester of the minor’s program.

Credit/No Credit

MIS 194. Cooperative Education Experience in Management Information Systems. 6 - 12 Units
Prerequisite(s): MIS 160, minimum Sacramento State overall GPA of 2.75.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in management information systems for the purpose of exposing the student to comprehensive MIS experience in business, governmental, or service agencies. Open to all upper division students, subject to permission of the MIS Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Credit/No Credit

MIS 195. Internship in Management Information Systems. 3 - 6 Units
Prerequisite(s): MIS 160, minimum Sacramento State overall GPA of 2.75.
Term Typically Offered: Fall, Spring

Supervised work experience in management information systems for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission of the MIS Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Note: Open to declared business administration majors only. Credit/No Credit

MIS 199. Special Problems in Management Information Systems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.

Note: Admission requires approval of the instructor and the Associate Dean. Petitions may be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

MIS 210. Information Systems I. 3 Units
Term Typically Offered: Fall, Spring

Introduction to business information systems planning and systems development methodologies. Various methodologies are explored and information systems development project planning is emphasized.
MIS 211. Information Systems II. 3 Units
Term Typically Offered: Fall, Spring
Introduction to basic and object-oriented programming concepts, data structures for information representation, and database management systems.

MIS 232. Management Science. 3 Units
Term Typically Offered: Fall, Spring
Introduction to deterministic and stochastic models in operations research. Topics that may be included are: mathematical programming, inventory theory, analysis of waiting lines, Markov processes, game theory, decision theory and simulation. Various computer programs such as LINDO are used to assist in solution and analysis of management problems.
Note: Not open to students with credit for MIS 132.

MIS 240. Communications Technologies for Business. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring
Focuses on the concepts, technology, applications, and management of data and voice communication with an emphasis on building, supporting, securing, and administering the requirements of network infrastructure and architecture to support businesses.
Note: May be taken twice for credit.

MIS 250. Data Management. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission, and MIS 15 or equivalent.
Term Typically Offered: Fall, Spring
Focuses on database concepts, design and implementation in business. Topics include database design techniques, such as extended entity-relationship and unified modeling language, logical and physical data models for object-relational database, object oriented database and relational databases, database implementation and administration issues, and the discussion of distributed database, web database, and database security.
Note: May be taken twice for credit.

MIS 251. Strategic Applications of Information Resources. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 210 and 211, or their equivalents. MBA students: MBA 260 and instructor permission.
Term Typically Offered: Fall, Spring
Discussion of the techniques and methodologies to utilize information resource to improve an organization’s strategic performance measures. Topics include data warehouse, data mining, online analytical transaction processing, and multidimensional database.

MIS 260. Systems Design. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring
Involves the study of various methods used to analyze and design a computer-based information systems and emphasizes object-oriented systems development (OOSD) techniques.
Note: May be taken twice for credit.

MIS 261. Information Technology Integration for the Enterprise. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 260 or MIS 270; MBA students: MBA 260 or permission of instructor.
Term Typically Offered: Fall, Spring
IT presents many new opportunities at the enterprise level for the design and implementation of integrated organizational structures and business processes that better align the business to meeting its market demands and allow it to pursue new strategic relationships with other organizations. Enterprise IT primarily involves enterprise resource planning (ERP), supply chain management (SCM), knowledge management (KM), and customer relationship management (CRM) to support and coordinate business activities.
Note: May be taken twice for credit.

MIS 262. Business Project Management. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 260; MBA students: MBA 260 or instructor permission.
Term Typically Offered: Fall, Spring
Examines various aspects of IT project management, including project selection involving feasibility, complexity, scalability and impact comparisons, project portfolio to direct the right resources to the right projects to ensure their timely completion, risk assessment, key performance measures, and others.
Note: May be taken twice for credit.

MIS 270. Information Technology Operations. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring
Examines the management of information technology as a vital resource to an organization. IT can enable businesses to seize opportunities, gain competitive advantages and establish close relationships with other businesses and their customers. Thus, the business must effectively and efficiently manage and secure its IT resources.
Note: May be taken twice for credit.

MIS 272. Strategic Information Technology Planning. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 270; MBA students: MBA 260 or instructor permission.
Term Typically Offered: Fall, Spring
Strategic IT planning defines the direction a business chooses for its IT resources. It encompasses a vision, mission, strategy, and objectives that closely align to the business’ vision, mission, strategy, and objectives. Planning involves examining how IT will support the achievement of the business’ goals and objectives, and how IT can open new opportunities to create new business goals.
Note: May be taken twice for credit.

MIS 267. Business Systems Planning. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 270; MBA students: MBA 260 or instructor permission.
Term Typically Offered: Fall, Spring
Examines the management of information technology as a vital resource to an organization. IT can enable businesses to seize opportunities, gain competitive advantages and establish close relationships with other businesses and their customers. Thus, the business must effectively and efficiently manage and secure its IT resources.
Note: May be taken twice for credit.

MIS 279. Information Technology Leadership. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 261 or MIS 262, MIS 272; MBA students: MBA 260 and instructor permission.
Term Typically Offered: Fall, Spring
Leadership plays an important role in determining a business’ success with IT. It requires recognizing and leveraging the business’ competencies and core values, and championing initiatives and projects that work in the best interest of the business and create value. Because IT opens opportunities and enables the organization, IT leadership extends to both market (external) and organizational (internal) environments.
Note: May be taken twice for credit.
MIS 280. Decision and Knowledge-Based Systems. 3 Units
**Prerequisite(s):** MIS 211 or equivalent.
**Term Typically Offered:** Fall, Spring

Organizational use of information generated from transaction processing systems, management information systems, and decision support systems. The uses of information by managers for planning, control, and decision-making purposes will be discussed. The types of information systems implemented in various kinds of organizations will be covered.

MIS 281. Topics in the Management of Information Systems. 3 Units
**Prerequisite(s):** Open to non-MSBA/MIS majors with credit in MBA 260 or equivalent; and to those who have completed MSBA/MIS Program Prerequisites.
**Term Typically Offered:** Fall, Spring

Current topics will be presented regarding the managerial, behavioral, and organizational considerations affecting computer-based information systems. Includes topics such as project selection and justification techniques, system controls, security and privacy issues, strategic planning, and use/data processing department relations. Readings, topical research, and case presentations will be required.

MIS 295. Internship in Management Information Systems. 3 Units
**Prerequisite(s):** Completion of two of the following: MIS 240, MIS 250, MIS 260, or MIS 270; minimum Sacramento State GPA of 3.0.
**Term Typically Offered:** Fall, Spring

Supervised work experience in management information systems for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies.

**Note:** Open to second year MBA and MSBA/MIS students. Petitions to be obtained from Tahoe Hall 1037.

Credit/No Credit

MIS 299. Special Problems in Management Information Systems. 1 - 3 Units
**Prerequisite(s):** Classified graduate status.
**Term Typically Offered:** Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.

**Note:** Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval of the Graduate Programs Office. Petitions to be obtained from Tahoe Hall 1035.

Credit/No Credit

MIS 500A. Thesis. 1 - 3 Units
**Prerequisite(s):** Advanced to candidacy. Completion of MBA 244.
**Term Typically Offered:** Fall, Spring

Completion of a thesis approved for the Master's degree.

MIS 500B. Project. 1 - 3 Units
**Prerequisite(s):** Advanced to candidacy. Completion of MBA 244.
**Term Typically Offered:** Fall, Spring

Completion of a project approved for the Master’s degree.

MKTG 101. Principles Of Marketing. 3 Units
**Prerequisite(s):** You must be a Business major (any concentration), a business minor or in one of the following majors: Coms/Pub Relations, CM, MET, FACS (Apparel Mktg/Design), FACS (Cons Sci), FASH, GPHD, INTD (Mktg), Rec & Park Mgmt, Photography to enroll in this course.
**Term Typically Offered:** Fall, Spring

The purpose of this course is to help students develop a working knowledge of marketing. Students will learn about the role marketing plays in an organization, as well as how to plan, implement and evaluate marketing activities. This course builds a foundation for further study in marketing and related fields.

MKTG 115. Marketing Analytics. 3 Units
**Prerequisite(s):** MKTG 101; and either DS 101 or MKTG 121; or instructor permission
**Term Typically Offered:** Fall, Spring

The course covers current developments in marketing analytics. Topics include methodologies for market forecasting, estimating market size, and demand; evaluating marketing ROI and customer life time value; modeling of segmentation, positioning, competitive analysis, conjoint analysis, distribution channel analytics, and sales analytics. Students will also learn the latest datamining tools to collect, analyze, and visualize data for decision making and communicating to senior executives.

MKTG 121. Marketing Research and Information. 3 Units
**Prerequisite(s):** MKTG 101.
**Corequisite(s):** DS 101
**Term Typically Offered:** Fall, Spring

Examines the acquisition of information for marketing management decision making, including methods of collection and analysis applicable to secondary and primary data, as this process relates to the management information system. Seminar.

MKTG 122. Buyer Behavior. 3 Units
**Prerequisite(s):** MKTG 101.
**Term Typically Offered:** Fall, Spring

Understanding buying as a process in order to develop more effective solutions to marketing problems; an interdisciplinary approach drawing on insights from the behavioral sciences; applications to practical marketing situations. Seminar.

MKTG 123. Public Relations and Ethics in Business. 3 Units
**Term Typically Offered:** Fall, Spring

Managerial function of evaluating public attitudes toward business firms and other organizations and institutions, and of adjusting policies and executing programs to earn public acceptance and support. Media and method of communicating with the various publics, and problems in responsible leadership.
MKTG 124. Retail Management. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Development, trends, and institutions of retailing; organization and management of retail establishments; principles and policies of retail store operations including location and layout, planning and control of budgets, personnel, pricing and customer services.

MKTG 125. Advertising. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Examination of advertising as a marketing communications tool in profit and nonprofit organizations. Emphasis will be placed on creative methods, alternative media, measurements of effectiveness, and coordination with other aspects of the marketing program through class discussion and written projects. Seminar.

MKTG 126. Salesmanship. 3 Units
Term Typically Offered: Fall, Spring

Principles of the sales process including prospecting, structuring a sales presentation, handling objections, closing and customer relationship management. Application of sales techniques in product and service situations, integration of technology as a sales tool. Includes lectures, role playing, and practice in sales presentations.

MKTG 127. Sales Management. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Individual problems of manufacturer or wholesaler in merchandising; intensive development of the “selling” function of marketing; duties of the sales manager.

MKTG 129. Marketing Management. 3 Units
Prerequisite(s): MKTG 101 and senior status.
Term Typically Offered: Fall, Spring

Application of marketing principles to the solution of a wide variety of problems and cases including target markets, product selection, channels of distribution, promotion and pricing.
Note: It is a capstone course. It is recommended that students take MKTG 121 and MKTG 122 prior to taking MKTG 129. Seminar.

MKTG 130. Digital Marketing. 3 Units
Prerequisite(s): MKTG 101 and Business majors or Marketing minors only.
Term Typically Offered: Fall, Spring

The purpose of this course is to help students learn and apply emerging marketing techniques to become efficient and effective marketers in the 21st century. Topics covered center on effective marketing in an online environment to help students refine their strategic marketing skills, ability to work effectively in diverse teams, and understanding of the local marketing environment.

MKTG 140. Sports Marketing. 3 Units
Prerequisite(s): MKTG 101
Term Typically Offered: Fall, Spring

The purpose of this course is to help students to integrate principles of marketing and sports industry management. It examines the marketing of sports, teams, athletes, sport arenas, as well as the use of sports related marketing tools (such as sponsorships, celebrity athlete endorsements, promotional licensing) for promoting non-sport consumer and industrial products.

MKTG 160. Principles of Quality Management. 3 Units
Term Typically Offered: Fall, Spring

Study of the major principles of quality management: customer focus, continuous improvement, employee involvement, and process improvement. Use of case studies and a project to gain knowledge in implementing quality management principles. Seminar.

MKTG 181. Supply Chain Logistics Management. 3 Units
Prerequisite(s): OPM 101.
Term Typically Offered: Fall, Spring

Delivery of enhanced customer and economic value through synchronized management of the flow of physical goods and associated information from sourcing through consumption. Examines the management of those activities that facilitate the movement, control and direction of goods and services to create time, place, form and ownership utilities in the global market. Topics include transportation, warehousing, information systems, sourcing, strategic alliances, modeling, purchasing and international operations.

MKTG 186. Advanced Operations Planning and Control. 3 Units
Prerequisite(s): OPM 101.
Term Typically Offered: Fall, Spring

Focuses on effective operations strategies for companies that operate in a dynamic business environment, with an emphasis on in-depth treatments of the decision situations facing managers in charge of related to the planning and control of the flow of goods and services in supply chain systems.

MKTG 188. Supply Chain Modeling and Analysis. 3 Units
Prerequisite(s): OPM 101.
Term Typically Offered: Fall, Spring

Covers modeling and analytics for designing, managing and improving supply chain systems in order to achieve competitive advantages: cost, quality, service, flexibility, adaptability, and sustainability which support business level strategies of cost leadership and differentiation.

MKTG 190. Multinational Marketing. 3 Units
Prerequisite(s): MKTG 101 or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Environmental factors affecting international trade, such as culture and business customs, political factors and constraints, economic development and legal differences, are integrated with the marketing management functions of market potential, analysis marketing research, international organization, channels and distribution, sales promotion, prices, credit, and financing.
MKTG 195. Internship in Marketing. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5. Term Typically Offered: Fall, Spring
Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies. Note: Open to upper division students, subject to permission of the Marketing Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only. Credit/No Credit

MKTG 199. Special Problems in Marketing. 1 - 3 Units Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work. Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030. Credit/No Credit

MKTG 199A. Special Problems in Supply Chain Management. 3 Units Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work. Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030. Credit/No Credit

OPM 101. Operations Management. 3 Units
Prerequisite(s): Student must be a Business Major or Business Administration minor to enroll in this course Corequisite(s): DS 101 Term Typically Offered: Fall, Spring
Introduction to the basic concepts and methods used to analyze and improve performance of operations in manufacturing and service organizations. Credit/No Credit

RELU 199. Special Problems in Real Estate and Land Use Affairs. 1 - 3 Units Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030. Credit/No Credit

Business Honors Program
Units required for the Major: 54 units Minimum total units required for the BS: 120
Program Description
The Business Honors program:

- Challenges students in critical thinking while building their decision making and problem solving skills.
- Immerses students in a learning experience in which they learn not only from their professors, but also from their peers.
- Develops students as future business leaders and pioneers.
- Provides students with many opportunities to meet and interact with professionals to learn real-life lessons.
- Provides an exceptional value to their business education through advanced knowledge and skill sets.

The Business Honors program is a full-time program. Business Honors students will be immersed in a cohort-based learning experience where they will work with and learn from others in their cohort group as well as high-qualified faculty.

For more information, please contact the Office of the Associate Dean for Academic Programs at (916) 278-6463.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHON 102</td>
<td>Business Communication</td>
<td>2</td>
</tr>
<tr>
<td>BHON 104</td>
<td>Fundamentals of Organizational Behavior</td>
<td>2</td>
</tr>
<tr>
<td>BHON 105</td>
<td>Introduction to Management Information Systems</td>
<td>2</td>
</tr>
<tr>
<td>BHON 106</td>
<td>Business Data Analysis</td>
<td>2</td>
</tr>
<tr>
<td>BHON 107</td>
<td>Business Finance</td>
<td>2</td>
</tr>
<tr>
<td>BHON 108</td>
<td>Fundamentals in Marketing</td>
<td>2</td>
</tr>
<tr>
<td>BHON 109</td>
<td>Operations Management</td>
<td>2</td>
</tr>
<tr>
<td>BHON 120</td>
<td>Business Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>BHON 130</td>
<td>Value Chain and Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>BHON 140</td>
<td>Enterprise Resource Planning and Infrastructure</td>
<td>3</td>
</tr>
<tr>
<td>BHON 150</td>
<td>Entrepreneurship and Innovation</td>
<td>3</td>
</tr>
<tr>
<td>BHON 160</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>BHON 170</td>
<td>Strategy and Leadership</td>
<td>3</td>
</tr>
<tr>
<td>BHON 190</td>
<td>Practicum in Business</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units 33

Concurrent Master's and Juris Doctoral Programs

Program Description
An arrangement between the College of Business Administration (CBA) and the University of the Pacific McGeorge School of Law allows a student to earn credits toward an MBA degree and a juris doctor (JD) degree concurrently.

Applicants who are interested in both MBA and JD programs should consult this catalog for the requirements for admission to the MBA degree program and contact the Graduate Business Advising Center (GBAC), Tahoe Hall 1037 of the College of Business Administration for information on the current program.
Concurrent Master's Program

Program Description

A student may concurrently earn the MS/ACCY from Sacramento State and the MBA from Sacramento State. To earn the MS degree, the catalog requirements for that degree must be met, i.e., Foundation Courses, Program Requirements, Electives, and Culminating Experience (30-49) units. To concurrently and jointly earn the MBA degree, the student must satisfy the MBA Program Requirements (21 units) and the MBA Culminating Experience (3 units). Coursework from the MS program can be used to satisfy the nine-unit requirement for Elective Courses. For more information, contact the CBA Graduate Business Advising Center (GBAC), Tahoe Hall 1037.

MBA (Business Analytics in Healthcare)

Total units required for MBA: 33

Program Description

The MBA is intended to improve the participant’s capacity for effective decision making, to facilitate his/her professional growth and development for increasing managerial responsibility, and to broaden his/her knowledge and understanding of management.

The Business Analytics in Healthcare (BAH) concentration will explore finance, information technology, operations and other areas as it is applied to and used in the healthcare industry. Students will be exposed to the challenges in healthcare and gain managerial and technical expertise addressing the complex and multi-faceted aspects of healthcare organizations such as pharmaceuticals and medical product companies, financial and insurance services, hospitals and other medical institutions, entrepreneurial ventures, consulting firms, foundation, and governments. The complementary themed design of the program will open up multiple career opportunities for graduate in several emerging areas.

Admission Requirements

All applicants for post-baccalaureate degree programs in Business must have earned a baccalaureate degree from a regionally accredited four-year institution of higher learning or the equivalent from a foreign institution. Admission requirements are different for each of the CBA Graduate Programs. The specific admission requirements for each degree program are listed within the program descriptions under “Admission Information” on the following pages. The College of Business Administration reserves the rights to revise its admissions standards and to limit enrollment in its graduate degree programs.

Applicants who are approved for admission will receive a letter from the Office of Graduate Studies informing them that they have been admitted as a conditionally or fully classified graduate student.

The following represent minimum academic qualifications and admission criteria. As the College of Business Administration receives a large number of applications each cycle, it reserves the right to admit fewer applicants than those who meet the minimum criteria.

Title V of the California Educational Code requires that MBA candidates must have earned a minimum 2.5 cumulative GPA and an undergraduate degree from a regionally accredited institution.

Unless a valid waiver is presented, applicants must also submit a valid admission test (GMAT or GRE) and/or English Language Proficiency exam scores.

Minimum Admission or Language Test Scores

GMAT: 30% overall, 30% verbal, 30% quantitative; Scores valid for 5 years from test date. Test must be taken by the application deadline. Students are able to apply with pending scores, but must submit an official score report to be considered for admission.

GRE (General Test): 30% verbal, 30% quantitative; Scores valid for 5 years from test date. Test must be taken by the application deadline. Students are able to apply with pending scores, but must submit an official score report to be considered for admission (use institution code of 46711 ONLY when requesting official score reports be sent to Sacramento State; do not use department code).

TOEFL: Paper-based: 550; Internet-based: 80 (International Students only).

IELTS: 7(International Students only).

Deadlines

See the CBA MBA website for current admission deadlines: https://www.csus.edu/college/business-administration/graduate/mba.html

Special Admission Process

Applicants not meeting all the admission criteria may be admitted to the program based on evidence of potential success in the program provided by the applicant. Such evidence may include, but is not limited to: the applicant’s maturity, motivation, employment history, managerial potential, letters of recommendation, personal statement, community activities, and other accomplishments that support the applicant’s potential to successfully complete the program. An applicant so considered and recommended for admission may be approved by the Graduate Dean or Dean’s designate.

Application Procedures

All prospective graduate students must file all of the following documents by the application deadline with both the CBA MBA Program Services and the Sacramento State Office of Graduate Studies (River Front Center 215) as noted below:

1. To Sacramento State, Office of Graduate Studies:
   a. Online Cal State Apply Graduate Application and
   b. Application Fee (you can pay this when you are filling out your online application).
   c. Official transcripts from all universities previously attended. Sacramento State current students or graduates: only submit transcripts not previously submitted to the university or from institutions attended after graduation

2. To the College of Business Administration, MBA Program Services Office, the following are required for a complete application:
   a. The MBA Supplementary Application.
   b. Supplemental Application Materials.
      i. Official GMAT or GRE scores;
      ii. Current resume;
      iii. 1-2 page statement of purpose;
      iv. Two letters of recommendation.
c. Copies of official transcripts. Please request two copies of official transcripts from all colleges and universities you have attended. Send transcripts to both the MBA Program Services office and the Office of Graduate Studies. Sacramento State current students or graduates: only submit transcripts not previously submitted to the university or from institutions attended after graduation.

Note: Applications are not considered complete and will not be reviewed unless all application materials and transcripts have been received.

Application Submission

College of Business Administration
MBA Program Services
Tahoe Hall, Room 1020
Sacramento State
6000 J Street
Sacramento, CA 95819-6088
Web site: https://www.csus.edu/college/business-administration/graduate/mba.html
Phone: (916) 278-4501
Email: mba@csus.edu

And to:
Office of Graduate Studies
Sacramento State
River Front Center, Room 215
6000 J Street
Sacramento, CA 95819-6112
Web site: https://www.csus.edu/graduate-studies/
Phone: (916) 278-6470
Email: grad_admissions@csus.edu

International Applicants

International students (F or J Visas) must apply through International Admissions (https://www.csus.edu/international-programs-global-engagement/application-admissions-process/). Do not fill out the general graduate studies application as it will slow down your application process. All materials, inclusive of TOEFL scores, must be turned in to the International Admissions Office. To ensure consideration, international students should submit their material, including GMAT/GRE and TOEFL test scores, to the International Admissions Office one month prior to the CBA MBA Program Services application filing deadline. For an application and details international students should visit The International Admissions Office Web site. (https://www.csus.edu/international-programs-global-engagement/application-admissions-process/)

Prerequisites

Prior to enrolling in the Foundation courses, students must be proficient in mathematics, statistics, and computer usage:

1. Mathematics: at least one semester of calculus is strongly preferred;
2. Statistics: an introductory course in probability and statistics; and
3. Computer usage: ability to use common personal computer hardware and software, particularly word processing programs, spreadsheet programs, and internet browsers.

The faculty will assume that all MBA students have these proficiencies. A student may gain the necessary proficiencies in many ways: through coursework, review classes, self-study; or experience. No proficiency courses can count as credit towards program requirements.

Graduate Writing Assessment Requirement (GWAR)

The Graduate GWAR is a CSU wide requirement that should be completed by students before advancing to candidacy. The purpose of the GWAR is for students to demonstrate their proficiency at writing in an academic setting at a graduate-level.

Graduate students must successfully pass a Graduate Writing Intensive (GWI) course in their Graduate Program to complete the requirement.

Foundation Courses

The Foundation courses provide an academic background in the various disciplines of business. The MBA degree program is built upon this common background. Foundation courses should be taken after the student has attained the required entry proficiencies (prerequisites) and should be completed prior to taking program requirement courses.

A student who has a baccalaureate degree or a minor in Business Administration from an AACSB-INTERNATIONAL accredited university may have completed all or most of the Foundation requirements. However, the student will be required to take certain Foundation courses if she/he:

1. has not previously completed the comparable undergraduate course(s) for academic credit from an AACSB-INTERNATIONAL accredited institution or from a high quality program that has a "national or international reputation";
2. has earned less than an overall 3.0 ("B") grade point average (GPA) in the comparable undergraduate courses presented for waiver of required courses;
3. has received a "C" or lower grade in the comparable undergraduate course;
4. cannot demonstrate currency in these courses (7 year limit); or
5. has completed the bachelor's degree at a foreign institution.

Courses taken at AACSB-INTERNATIONAL accredited colleges of business will be accepted for transfer credit if the course is regarded as equivalent to the course for which credit is requested. Business Foundation courses and Core courses will not be accepted for transfer credit from programs that are not AACSB-INTERNATIONAL accredited unless taken at institutions that have national or international reputations of high quality programs.

Please visit the MBA Program website to download Foundation Course Waiver forms and petitions for equivalency for graduate, non-articulated courses. The CBA Academic Standards Committee will evaluate whether the institutions satisfy the requirement of "national or international reputations of high quality programs." Subsequently, faculty in the appropriate department will make the final determination for course equivalency, e.g., content, method of instruction, method of evaluating students, and/or course duration. To find out if your university is AACSB accredited go to www.AACSB.edu.

Master students who are registered in the last two Foundation courses must file an Application for Classification with the MBA Program Services at mps@csus.edu, to be able to enroll in the courses designated as Program Requirements. The student’s academic status will be reviewed to assure that he/she meets the necessary criteria to be accepted as a classified graduate student.

A GPA of at least 3.0 ("B") is required in all Foundation courses taken at Sacramento State, and program requirement courses presented for the degree.
The foundation courses are available after acceptance into one of the CBA Graduate Programs.

Note: To be completed after the student has demonstrated the required entry proficiencies and must be completed prior to taking Program Requirements in any of the Master’s programs.

A graduate student may request a challenge for waiver of a College of Business Administration foundation or core course if it at least one of the following conditions is met:

• The student has taken an equivalent class elsewhere, subject to the GPA requirement in CBA academic policy. For core classes, the equivalent class must be at the undergraduate level; for the foundation classes, the equivalent class can be taken at the undergraduate level.

• The student has achieved appropriate professional or academic qualification.

• The student has appropriate professional work experience.

It is the responsibility of a student to provide sufficient documentation to support a waiver challenge application.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MBA 210</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MBA 220</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 230</td>
<td>Behavior Science Applications in Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 240</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 280</td>
<td>Value Chain Integration</td>
<td>3</td>
</tr>
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</table>

Required Courses (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 262</td>
<td>Integrated IT in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>MBA 225</td>
<td>Financial Aspects of Health Care Administration</td>
<td>3</td>
</tr>
<tr>
<td>MBA 281</td>
<td>Quality and Process Improvement in Healthcare</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Group (6 Units)

Select at least two of the following or any MBA 200-level courses:  6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 235</td>
<td>Management Of Innovation</td>
<td></td>
</tr>
<tr>
<td>MBA 260</td>
<td>Management Of Technology Intensive Enterprises</td>
<td></td>
</tr>
<tr>
<td>MBA 261</td>
<td>Integrated Business Process Management</td>
<td></td>
</tr>
<tr>
<td>MBA 263</td>
<td>Project and Outsourcing Management</td>
<td></td>
</tr>
<tr>
<td>MBA 264</td>
<td>Business Intelligence</td>
<td></td>
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</table>

Culminating Experience (3 Units)

Select one of the following:  3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 501</td>
<td>Culminating Experience Project in Business and Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MBA 500A</td>
<td>Thesis</td>
<td></td>
</tr>
<tr>
<td>MBA 500B</td>
<td>Project</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 33

Minimum Units and Grade Requirement for the Degree

Units required for MBA: 33 (excluding foundation courses)

Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is "C." No more than two (2) courses with a grade of “C” will be counted for satisfaction of graduate program requirements.

Advancement to Candidacy

A student’s program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the MBA Program Services at mps@csus.edu for advancement to candidacy for the Master’s degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

MBA (General)

Total units required for MBA: 33

Program Description

The MBA program has been developed to provide an education that is extensive and broadening rather than intensive or specialized within a limited functional area. The MBA is intended to improve the participant’s capacity for effective decision making, to facilitate his/her professional growth and development for increasing managerial responsibility, and to broaden his/her knowledge and understanding of management in the areas of:
• Accountancy
• Finance
• International Management
• Management Information Systems
• Supply Chain Management

The MBA is also appropriate preparation for teaching business education subjects at the community college level. Students are encouraged to obtain further guidance from the school districts in which they will teach. The flexible design of the program allows students to pursue individual areas of interest.

Admission Requirements
All applicants for post-baccalaureate degree programs in Business must have earned a baccalaureate degree from a regionally accredited four-year institution of higher learning or the equivalent from a foreign institution. Admission requirements are different for each of the CBA Graduate Programs. The specific admission requirements for each degree program are listed within the program descriptions under “Admission Information” on the following pages. The College of Business Administration reserves the rights to revise its admissions standards and to limit enrollment in its graduate degree programs.

Applicants who are approved for admission will receive a letter from the Office of Graduate Studies informing them that they have been admitted as a conditionally or fully classified graduate student.

The following represent minimum academic qualifications and admission criteria. As the College of Business Administration receives a large number of applications each cycle, it reserves the right to admit fewer applicants than those who meet the minimum criteria.

Title V of the California Educational Code requires that MBA candidates must have earned a minimum 2.5 cumulative GPA and an undergraduate degree from an accredited institution.

Unless a valid waiver is presented, applicants must also submit a valid admission test (GMAT or GRE) and/or English Language Proficiency exam scores.

Minimum Admission or Language Test Scores
GMAT: 30% overall, 30% verbal, 30% quantitative; Scores valid for 5 years from test date. Test must be taken by the application deadline. Students are able to apply with pending scores, but must submit an official score report to be considered for admission.

GRE (General Test): 30% verbal, 30% quantitative; Scores valid for 5 years from test date. Test must be taken by the application deadline. Students are able to apply with pending scores, but must submit an official score report to be considered for admission (use institution code of 4671 ONLY when requesting official score reports be sent to Sacramento State; do not use department code).

TOEFL: Paper-based: 550; Internet-based: 80 (International Students only).

IELTS: 7(International Students only).

Deadlines
See the CBA MBA website for current admission deadlines: https://www.csus.edu/college/business-administration/graduate/mba.html

Special Admission Process
Applicants not meeting all the admission criteria may be admitted to the program based on evidence of potential success in the program provided by the applicant. Such evidence may include, but is not limited to: the applicant’s maturity, motivation, employment history, managerial potential, letters of recommendation, personal statement, community activities, and other accomplishments that support the applicant’s potential to successfully complete the program. An applicant so considered and recommended for admission may be approved by the Graduate Dean or Dean’s designee.

Application Procedures
All prospective graduate students must file all of the following documents by the application deadline with both the CBA MBA Program Services and the Sacramento State Office of Graduate Studies (River Front Center 215) as noted below:

1. To Sacramento State, Office of Graduate Studies:
   a. Online Cal State Apply Graduate Application and
   b. Application Fee (you can pay this when you are filling out your online application).
   c. Copies of official transcripts from all colleges and universities attended. Sacramento State current students or graduates: only submit transcripts not previously submitted to the university or from institutions attended after graduation.

2. To the College of Business Administration, MBA Program Services Office, the following are required for a complete application:
   a. The MBA Supplementary Application.
   b. Supplemental Application Materials.
      i. Official GMAT or GRE scores;
      ii. Current resume;
      iii. 1-2 page statement of purpose;
      iv. Two letters of recommendation.
   c. Copies of official transcripts. Please request 2 copies of official transcripts from all colleges and universities you have attended. Send transcripts to both the MBA Program Services office and the Office of Graduate Studies. Sacramento State current students or graduates: only submit transcripts not previously submitted to the university or from institutions attended after graduation.

Note: Applications are not considered complete and will not be reviewed unless all application materials and transcripts have been received.

Application Submission
College of Business Administration
MBA Program Services
Tahoe Hall, Room 1020
Sacramento State
6000 J Street
Sacramento, CA 95819-6088
Web site: https://www.csus.edu/college/business-administration/graduate/mba.html
Phone: (916) 278-4501
Email: mba@csus.edu

And to:
Office of Graduate Studies
Sacramento State
River Front Center, Room 215
International Applicants

International students (F or J Visas) must apply through International Admissions (https://www.csus.edu/international-programs-global-engagement/application-admissions-process/). Do not fill out the general graduate studies application as it will slow down your application process. All materials, inclusive of TOEFL scores, must be turned in to the International Admissions Office. To ensure consideration, international students should submit their material, including GMAT/GRE and TOEFL test scores, to the International Admissions Office one month prior to the CBA MBA Program Services application filing deadline. For an application and details international students should visit The International Admissions Office Web site. (https://www.csus.edu/international-programs-global-engagement/application-admissions-process/)

Prerequisites

Prior to enrolling in the Foundation courses, students must be proficient in mathematics, statistics, and computer usage:

• Mathematics: at least one semester of calculus is strongly preferred;
• Statistics: an introductory course in probability and statistics; and
• Computer usage: ability to use common personal computer hardware and software, particularly word processing programs, spreadsheet programs, and internet browsers.

The faculty will assume that all MBA students have these proficiencies. A student may gain the necessary proficiencies in many ways: through coursework, review classes, self-study; or experience. No proficiency courses can count as credit towards program requirements.

Graduate Writing Assessment Requirement (GWAR)

The Graduate GWAR is a CSU wide requirement that should be completed by students before advancing to candidacy. The purpose of the GWAR is for students to demonstrate their proficiency at writing in an academic setting at a graduate-level.

Graduate students must successfully pass a Graduate Writing Intensive (GWI) course in their Graduate Program to complete the requirement.

Foundation Courses

The Foundation courses provide an academic background in the various disciplines of business. The MBA degree program is built upon this common background. Foundation courses should be taken after the student has attained the required entry proficiencies (prerequisites) and should be completed prior to taking program requirement courses.

A student who has a baccalaureate degree or a minor in Business Administration from an AACSB-INTERNATIONAL accredited university may have completed all or most of the Foundation requirements. However, the student will be required to take certain Foundation courses if she/he:

1. has not previously completed the comparable undergraduate course(s) for academic credit from an AACSB-INTERNATIONAL accredited institution or from a high quality program that has a "national or international reputation";
2. has earned less than an overall 3.0 ("B") grade point average (GPA) in the comparable undergraduate courses presented for waiver of required courses;
3. has received a "C" or lower grade in the comparable undergraduate course;
4. cannot demonstrate currency in these courses (7 year limit); or
5. has completed the bachelor's degree at a foreign institution.

Courses taken at AACSB-INTERNATIONAL accredited colleges of business will be accepted for transfer credit if the course is regarded as equivalent to the course for which credit is requested. Business Foundation courses and Core courses will not be accepted for transfer credit from programs that are not AACSB-INTERNATIONAL accredited unless taken at institutions that have national or international reputations of high quality programs.

Please visit the MBA Program website to download Foundation Course Waiver forms and petitions for equivalency for graduate, non-articulated courses. The CBA Academic Standards Committee will evaluate whether the institutions satisfy the requirement of "national or international reputations of high quality programs." Subsequently, faculty in the appropriate department will make the final determination for course equivalency, e.g., content, method of instruction, method of evaluating students, and/or course duration. To find out if your university is AACSB accredited go to www.AACSB.edu.

Master students who are registered in the last two Foundation courses must file an Application for Classification with the MBA Program Services at mps@csus.edu, to be able to enroll in the courses designated as Program Requirements. The student’s academic status will be reviewed to assure that he/she meets the necessary criteria to be accepted as a classified graduate student.

A GPA of at least 3.0 ("B") is required in all Foundation courses taken at Sacramento State, and program requirement courses presented for the degree.

The foundation courses are available after acceptance into one of the CBA Graduate Programs.

Note: To be completed after the student has demonstrated the required entry proficiencies and must be completed prior to taking Program Requirements in any of the Master's programs.

A graduate student may request a challenge for waiver of a College of Business Administration foundation or core course if it at least one of the following conditions is met:

• The student has taken an equivalent class elsewhere, subject to the GPA requirement in CBA academic policy. For core classes, the equivalent class must be at the graduate level; for the foundation classes, the equivalent class can be taken at the undergraduate level.
• The student has achieved appropriate professional or academic qualification.
• The student has appropriate professional work experience.

It is the responsibility of a student to provide sufficient documentation to support a waiver challenge application.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 204</td>
<td>Business Economics</td>
<td>3</td>
</tr>
<tr>
<td>MBA 201</td>
<td>Accounting</td>
<td>2</td>
</tr>
</tbody>
</table>
Minimum Units and Grade Requirement for the Degree
Units required for MBA: 33 (excluding foundation courses)

Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is "C." No more than two (2) courses with a grade of "C" will be counted for satisfaction of graduate program requirements.

Advancement to Candidacy
A student's program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the MBA Program Services at mps@csus.edu for advancement to candidacy for the Master's degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

Program Requirements

Required Courses (21 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 210</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MBA 220</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 230</td>
<td>Behavior Science Applications in Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 240</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 260</td>
<td>Management of Technology Intensive Enterprises</td>
<td>3</td>
</tr>
<tr>
<td>MBA 270</td>
<td>Global Business Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 280</td>
<td>Value Chain Integration</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (9 Units)

Select three electives 1

Culminating Experience (Advancement to candidacy) (3 Units)

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 501</td>
<td>Culminating Experience Project in Business and Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MBA 500A</td>
<td>Thesis</td>
<td>1</td>
</tr>
<tr>
<td>MBA 500B</td>
<td>Project</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units 33

1 A graduate student may request a challenge for waiver of a College of Business Administration foundation or core course if at least one of the following conditions is met:
   - The student has taken an equivalent class elsewhere, subject to the GPA requirement in CBA academic policy. For core classes, the equivalent class must be at the graduate level; for foundation classes, the equivalent class can be at the undergraduate level.
   - The student has achieved appropriate professional or academic qualification.
   - The student has appropriate professional work experience.

It is the responsibility of a student to provide sufficient documentation to support waiver challenge application. Academic credit for core courses is not earned by waiver. The requirement for completing a core course is waived, providing the student enrolls in and satisfactorily completes an elective course in that discipline or an elective approved to the appropriate faculty adviser who grants the waiver.

2 For a general MBA, elective courses may be chosen from a broad array of graduate Business Administration courses, nonbusiness graduate classes (6 units maximum), or supervisory coursework (6 units maximum: 3 units of Internship [a 295 series course], 3 units of Special Problems [a 299 series course]). Elective courses may also be selected from any other MBA concentration electives.

MBA for Executives (EMBA)

Total units for EMBA: 41

Program Description

The EMBA program is offered through collaboration between the College of Business Administration and the College of Continuing Education. The degree is offered by the College of Business Administration and administered through the College of Continuing Education and the External Graduate Programs Office (EGP) in the College of Business Administration.

Our EMBA program is designed to help just that as well as help the region redefine the business community. The new millennium is about making choices to make our lives easier and more enriched. New technological advances are happening every day that provide us with a better quality of life and the opportunity to have more flexibility than ever before. That is where the Master of Business Administration for Executives (EBMA) Program at Sacramento State comes in. The College of Business Administration recognizes the need among working professionals to advance their careers in a flexible and supportive environment that has not been met in the Sacramento region ever before. We believe that business executives deserve to have an EMBA program tailored to their unique needs.

A key consideration for the EMBA Program is that it is tailored to the needs of full-time working professionals. The program is designed to meet the needs of highly engaged working executives and managers. The entire program can be completed within 15 months. The EMBA courses are only available through the College of Continuing Education.

The EMBA program consists of 41 academic units broken down by the following components: orientation, eight required courses, four elective courses selected for each cohort, and an individual project for culminating experience. A listing of the courses is given below.
Admission Requirements

Selecting candidates for admissions is a very critical decision for the EMBA program. That is why we have adopted a system that takes into account three primary areas of evaluation when making admission decisions:

1. Professional Experience (length, breadth, and depth of professional and managerial experience, and potential for career development);
2. Academic Qualifications (a baccalaureate degree from an institution accredited by a regional accrediting association, previous graduate level coursework if available, and performance on the Graduate Management Admission Test (GMAT); and
3. Additional Relevant Criteria (Potential contribution to learning experience of the program, maturity and motivation, ability and willingness to commit the required time and energy to the program, community service and professional activities, and support of an applicant’s employing organization).

A candidate with good academic qualifications and a solid, but short, work record will have the same opportunity as someone with a strong, long, work record, but who has been out of school for a while. We believe candidates who have successful professional careers, solid education, and additional relevant qualifications will excel in our EMBA Program.

We do require that our candidates have a baccalaureate degree from a regionally accredited institution. We also recommend applicants have at least 3 to 5 years of professional work experience. Professional work experience will provide the applicants and their peers with a more stimulating learning environment.

Deadlines

Since class size is limited, early applications are highly encouraged.

Please contact the EMBA Admission Help Desk (916-278-2895) or visit the EMBA Web site (csus.edu/cba/emba/admissions) for application deadlines.

Application Procedures

(All forms can be downloaded from our Web site csus.edu/cba/emba/howtoapply.)

1. To Sacramento State, Office of Graduate Studies:
   • Online Sacramento State Graduate Application (csus.edu/cba/graduate/mba) and
   • $55 Application Fee (you can pay this when you are filling out your online application).
2. To the College of Business Administration, External Graduate Programs Office (EGP). The following are required for a complete application:

The following are required for a complete application:

1. The Supplementary Application Form (http://www.emba.csus.edu/emba/documents/CBAApplication-Spring2010.pdf). You may print out a copy and manually fill out the form or fill out the form electronically by downloading the application form from www.emba.csus.edu and save a copy on your computer. Please type or print clearly on the application. Give your full legal name and avoid abbreviations. You may use additional paper if you need more space to respond, but please put your name on each page, and attach the pages to your application.
2. Two copies of official transcripts. Please request 2 copies of official transcripts from all colleges and universities you have attended. A Transcript Request form (http://www.csus.edu/cba/emba/howtoapply.html) is included for your convenience. It is recommended that you have the transcripts directly sent to you in sealed envelopes.
3. Two letters of recommendation. At least one of these letters should come from supervisors and business associates who can discuss knowledgeably your managerial and academic abilities, accomplishments, and potential. Please use the Recommendation Letter Form (http://www.csus.edu/cba/emba/howtoapply.html) for the application.
4. Results on the Graduate Management Admission Test (GMAT). The Computer Adaptive GMAT is administered at test centers throughout the world. To register, visit their Web site at www.mba.com (http://www.mba.com). Please be sure to use the correct Sacramento State institutional code on your GMAT registration form.
5. Statement of career objectives. This statement should include a description of your long- and short-term career goals, and the ways in which you believe the EMBA degree will help you to achieve them.
6. A reverse chronological resume of your work experience. The resume should include job title, organization (nature of business, gross sales/revenues, number of employees), location, dates of employment, a summary of duties and responsibilities, and a description of your organizational unit (size, scope, budget, personnel, and reporting relationships) for each position held.
7. Corporate/Individual Sponsorship Form (http://www.csus.edu/cba/emba/howtoapply.html). Required to insure that your organizational sponsor will agree to allow you to attend classes on the mandatory Friday afternoons and Saturdays, and to determine if your organization plans to cover all or part of your educational fees. If you will be self-supporting, please ask your employer to confirm their agreement to your attendance and indicate your personal payment option preference on the bottom of the form.
8. Application interview. An application interview may be required, depending on individual circumstances. The Graduate Programs Office will contact you if needed.

Your completed Supplementary Application Form, and all supporting documents should be mailed to the address below, unless otherwise indicated:

College of Business Administration
MBA for Executive Program
Tahoe Hall, Room 1010
Sacramento State
6000 J Street
Sacramento, CA 95819-6088

International Applicants

International applications are not accepted for the program.

Note: Applications are not considered complete and will not be reviewed unless GMAT scores and transcripts are included. To facilitate processing your application so that you receive an admission decision more quickly, you must submit official transcripts from ALL colleges and universities previously attended (other than courses taken at Sacramento State University) even if you attended Sacramento State as an undergraduate. You should arrange to have all official transcripts sent at the same time you submit your application.
**Minimum Units and Grade Requirement for the Degree**

Units for EMBA: 41

Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is “C.” No more than two (2) courses with a grade of “C” will be counted for satisfaction of graduate program requirements.

**Advancement to Candidacy**

A student's program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the Graduate Business Advising Center (GBAC) for advancement to candidacy for the Master’s degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Orientation (1 Unit)</strong></td>
<td></td>
</tr>
<tr>
<td>EMBA 210</td>
<td>EMBA Orientation</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Required Courses (24 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>EMBA 222</td>
<td>Managerial Accounting for Executives^1</td>
<td>3</td>
</tr>
<tr>
<td>EMBA 223</td>
<td>Quantitative Methods for Decision Making^1</td>
<td>3</td>
</tr>
<tr>
<td>EMBA 224</td>
<td>Managerial Finance for Executives^1</td>
<td>3</td>
</tr>
<tr>
<td>EMBA 225</td>
<td>Organizational Design and Management^1</td>
<td>3</td>
</tr>
<tr>
<td>EMBA 226</td>
<td>Technology Management for Executives^1</td>
<td>3</td>
</tr>
<tr>
<td>EMBA 227</td>
<td>Strategic Marketing Management^1</td>
<td>3</td>
</tr>
<tr>
<td>EMBA 228</td>
<td>Strategic Analysis for Executives^1</td>
<td>3</td>
</tr>
<tr>
<td>EMBA 229</td>
<td>Leadership and Change Management^1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Elective Courses (12 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select four of the following:</td>
<td>12</td>
</tr>
<tr>
<td>EMBA 241</td>
<td>Strategic Supply Chain Management^1</td>
<td></td>
</tr>
<tr>
<td>EMBA 242</td>
<td>Product and Brand Management^1</td>
<td></td>
</tr>
<tr>
<td>EMBA 243</td>
<td>Legal Issues in Business Environment^1</td>
<td></td>
</tr>
<tr>
<td>EMBA 244</td>
<td>Corporate Performance Measurements^1</td>
<td></td>
</tr>
<tr>
<td>EMBA 245</td>
<td>Competing in the Global Marketplace^1</td>
<td></td>
</tr>
<tr>
<td>EMBA 246</td>
<td>Managing Creativity and Innovation^1</td>
<td></td>
</tr>
<tr>
<td>EMBA 247</td>
<td>Executive Decision Making^1</td>
<td></td>
</tr>
<tr>
<td>EMBA 248</td>
<td>Project Management for Executives^1</td>
<td></td>
</tr>
<tr>
<td>EMBA 249</td>
<td>Management in the Public Sector^1</td>
<td></td>
</tr>
<tr>
<td>EMBA 296</td>
<td>Experimental Offerings in Executive Management^1</td>
<td></td>
</tr>
<tr>
<td>EMBA 299</td>
<td>Special Problems in Executive Management^1</td>
<td></td>
</tr>
</tbody>
</table>

**Culminating Experience (4 Units)**

EMBA 260 EMBA Individual Project 4

1 Completion of EMBA 210

**MBA International (IMBA)**

**Total units required for MBA:** 36

**Program Description**

The College of Business (COB) in conjunction with the College of Continuing Education (CCE), proposes to offer a self-supported Master of Business Administration (International) degree program that can be completed either fully online or face to face.

The purpose of the MBA (International) program is to provide students the opportunity to become future leaders in the competitive world of international commerce. The program focuses on advancing knowledge, skills and practices that are complemented by twelve 3-unit courses include eight core courses and four courses from a specific area of emphasis: Finance, International Management, and Information Technology.

The academic background of each applicant will be assessed to determine if they have the educational foundation to be successful in the program. Individuals are required to take four IMBA boot camps. They are:

- Statistics
- Financial Accounting
- Business Economics
- Finance

**Admission Requirements**

All applicants for post-baccalaureate degree programs in Business must have earned a baccalaureate degree from a regionally accredited four-year institution of higher learning or the equivalent from a foreign institution. Admission requirements are different for each of the COB Graduate Programs. The specific admission requirements for each degree program are listed within the program descriptions under “Admission Information” on the following pages. The College of Business reserves the rights to revise its admissions standards and to limit enrollment in its graduate degree programs.

Applicants who are approved for admission will receive a letter from the Office of Graduate Studies informing them that they have been admitted as a conditionally or fully classified graduate student. Included with that correspondence will be an Acceptance Form which the new graduate student must then return to the COB MBA Program Services, Tahoe Hall 1020.

**Minimum Admission Criteria for the MBA Program**

As the College of Business receives a large number of applications each cycle, it reserves the right to admit fewer applicants than those who meet the minimum criteria.

Title V of the California Educational Code requires that MBA candidates must have earned a minimum 2.5 cumulative GPA and an undergraduate degree from an accredited institution.
Unless a valid waiver is presented, applicants must also submit a valid admission test (GMAT or GRE) and/or English Language Proficiency exam scores.

Minimum Admission or Language Test Scores

GMAT: 30% overall, 30% verbal, 30% quantitative; Scores valid for 5 years from test date. Test must be taken by the application deadline. Students are able to apply with pending scores, but must submit an official score report to be considered for admission.

GRE (General Test): 30% verbal, 30% quantitative; Scores valid for 5 years from test date. Test must be taken by the application deadline. Students are able to apply with pending scores, but must submit an official score report to be considered for admission (use institution code of 4671 ONLY when requesting official score reports be sent to Sacramento State; do not use department code).

TOEFL: Paper-based: 550; Internet-based: 80 (International Students only).

IELTS: 7(International Students only).

Deadlines
See the COB Web site for current admission deadlines: https://www.csus.edu/college/business-administration/graduate/mba-international.html

Special Admission Process
Applicants not meeting all the admission criteria may be admitted to the program based on evidence of potential success in the program provided by the applicant. Such evidence may include, but is not limited to: the applicant’s maturity, motivation, employment history, managerial potential, letters of recommendation, personal statement, community activities, and other accomplishments that support the applicant’s potential to successfully complete the program. An applicant so considered and recommended for admission may be approved by the Dean or Dean’s designee.

Application Procedures
All prospective graduate students must file all of the following documents by the application deadline with both the COB MBA Program Services (Tahoe Hall 1020) and the Sacramento State Office of Graduate Studies (River Front Center 215) as noted below:

1. To the College of Business, MBA Program Services Office, the following are required for a complete application:
   a. The College of Business Application (https://www.csus.edu/college/business-administration/graduate/mba-international.html)
   b. Supplemental Application Materials
      i. Official GMAT or GRE scores;
      ii. Current resume;
      iii. 1-2 page statement of purpose;
      iv. Two letters of recommendation.
   c. Two copies of official transcripts. Please request 2 copies of official transcripts from all colleges and universities you have attended. Send transcripts to both the MBA Program Services office and the Office of Graduate Studies. Sacramento State current students or graduates: only submit transcripts not previously submitted to the university or from institutions attended after graduation.

2. To Sacramento State, Office of Graduate Studies:
   * Online Cal State Apply Graduate Application and
   * Application Fee (you can pay this when you are filling out your online application).

Note: Applications are not considered complete and will not be reviewed unless all application materials and transcripts have been received.

International Applicants
International students (F or J Visas) must apply through International Admissions. Do not fill out the general graduate studies application as it will slow down your application process. All materials, inclusive of TOEFL scores, must be turned in to the International Admissions Office. To ensure consideration, international students should submit their material, including GMAT/GRE and TOEFL test scores, to the International Admissions Office one month prior to the COB MBA Program Services application filing deadline. For an application and details international students should visit The International Admissions Office Web site.

Application Submission
College of Business

MBA Program Services Office
Tahoe Hall, Room 1020
Sacramento State
6000 J Street
Sacramento, CA 95819-6088
Web site: https://www.csus.edu/college/business-administration/graduate/mba-international.html
Phone: (916) 278-2895
Email: imba@csus.edu

And to:
Office of Graduate Studies
Sacramento State
River Front Center, Room 215
6000 J Street
Sacramento, CA 95819-6112
Web site: https://www.csus.edu/graduate-studies/
Phone: (916) 278-6470
Email: grad_admissions@csus.edu

Graduate Writing Assessment Requirement (GWAR)
The Graduate GWAR is a CSU wide requirement that should be completed by students before advancing to candidacy. The purpose of the GWAR is for students to demonstrate their proficiency at writing in an academic setting at a graduate-level. Graduate students must successfully pass a Graduate Writing Intensive (GWI) course in their Graduate Program with a grade of "B" or better to satisfy the requirement.

Minimum Units and Grade Requirement for the Degree
Units required for MBA: #36

Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course (other than the GWI course) is "C." No more than two (2) courses with a grade of "C" will be counted for satisfaction of graduate program requirements.
Advancement to Candidacy
A student's program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the MBA Program Services at imba@csus.edu for advancement to candidacy for the Master's degree after they have completed at least 12 units of the program requirements. Students with a GPA deficiency or who have not fulfilled the Graduate Writing Assessment Requirement (GWAR) cannot advance to candidacy.

Program Requirements

### Required Core Courses (21 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>IMBA 210</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 211</td>
<td>Global Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 213</td>
<td>Marketing Management</td>
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<tr>
<td>IMBA 214</td>
<td>Statistical Decision Making</td>
<td>3</td>
</tr>
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<td>IMBA 215</td>
<td>Information Technology Management</td>
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</tr>
<tr>
<td>IMBA 216</td>
<td>Human Resource Management in Intl Perspective</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 217</td>
<td>Business Law and Legal Environment</td>
<td>3</td>
</tr>
</tbody>
</table>

### Emphasis (12 Units)

Select an emphasis from the following: 12

#### Finance

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>IMBA 231</td>
<td>Global Financial Institutions and Markets</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 232</td>
<td>International Trade</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 233</td>
<td>International Investments</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 234</td>
<td>Contemporary Issues in International Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

#### International Management

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMBA 241</td>
<td>Comparative International Management</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 242</td>
<td>Multinational Corporate Management</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 243</td>
<td>Global Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 244</td>
<td>Project Management</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Informational Technology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMBA 251</td>
<td>Information Technology Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 252</td>
<td>Enterprise Information Technology Planning</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 253</td>
<td>Strategic Information Technology Planning</td>
<td>3</td>
</tr>
<tr>
<td>IMBA 254</td>
<td>Information Technology Project Management</td>
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</tr>
<tr>
<td>IMBA 255</td>
<td>Information Technology Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

### Culminating Experience (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMBA 500</td>
<td>Leadership and Change Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 36

---

Minor in Business

Units required for the Minor: 24, all of which must be taken in Business Administration,* with the exception of the STAT 1 requirement.

Program Description

The College offers Minors in Business Administration, Knowledge Management Technology, Management of Human Resources and Organizational Behavior, Marketing, Real Estate and Land Use Affairs, and Risk Management and Insurance. A Minor in Business Administration is valuable to the student majoring in another area who wishes to supplement his/her knowledge with a business background.

Note: The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG).

Note: Minimum required GPA: 2.0 (“C”) in Business Administration courses with the minimum acceptable grade for any course being a "C-.”

Note: At least nine upper division units must be taken in residence. Business Administration\(^1\) 195 and 199 courses may not be applied to the minor.

Note: A student shall demonstrate computer literacy and competency (MIS 1, MIS 2, MIS 3) prior to taking 100-level courses except HROB 101.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 2</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 101</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 101</td>
<td>Principles Of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OPM 101</td>
<td>Operations Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two 100-level Business Administration courses\(^2\) 6

**Total Units 24**

---

\(^1\) The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accountancy Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG) and Supply Chain Management (SCM).

The student pursuing a minor in business administration is cautioned that other students enrolling in the class, majors in business administration, normally will have satisfactorily completed all prerequisites. To ensure that no significant handicap is incurred where prerequisites are not met, the student should obtain explicit instructor approval.

\(^2\) Four of the courses will be selected for a particular location
permission in each course prior to enrolling. Currency policies outlined in the Business Major also apply to Business Minors.

Finance

College of Business Administration

Program Description

The College of Business Administration (COB) offers a broad professional education in Business. The Bachelor of Science program offers students a choice of 9 concentrations by which they may focus their goals. Additionally, the COB's Business Honors program provides an alternative path to its most capable students to prepare them for management opportunities. All students must choose a concentration to complete their requirements for the baccalaureate degree. Students who are uncertain about which concentration to choose are encouraged to select the General Management concentration, as it is the most comprehensive. The structure of the General Management concentration also provides an overlap with the other concentrations, thus making changes in focus possible. Students who wish a more customized program may elect to complete the requirements for additional concentrations as well. For example, students may elect dual concentrations such as General Management and Management of Human Resources and Organizational Behavior. For information about program options, please visit our website at: Undergraduate Programs | Sacramento State (csus.edu) (/https://www.csus.edu/college/business-administration/undergraduate/).

The College also offers Minors in Business Administration, Management of Human Resources and Organizational Behavior, Marketing, Real Estate and Land Use Affairs, and Risk Management and Insurance. A Minor in Business Administration is valuable to the student majoring in another area who wishes to supplement his/her knowledge with a business background.

Degree Programs

BS in Business Administration (Finance) (p. 401)

MBA (Finance) (p. 403)

Minor in Real Estate and Land Use Affairs (p. 406)

Minor in Risk Management and Insurance (p. 406)

Career Possibilities

Account Executive · Actuary · Adjuster · Appraiser Asset Manager · Assessor · Bank Examiner · Banking Consultant · Budget Analyst · Claims Investigator · Commercial Broker · Commodity Broker · Compensation Insurance · Contractor/Builder · Disability Insurance Officer · Economic Development Analyst · Employee Benefits Specialist · Estate Planner · Escrow Officer · Estate Planner · Executive Controller · Finance Administrator · Financial Consultant · Financial Operations Officer · Financial Planner · Financial Statistician · Insurance Examiner/Officer · Insurance Account Executive · Investment Analyst/Officer · Life Underwriter · Land Developer · Land Use Planner · Leasing Manager · Leasing Representative · Lease Negotiator/Site Selection · Loan Officer · Mortgage Broker · Mortgage Loan Counselor · Planning Commissioner · Portfolio Manager · Property Manager · Real Estate Broker · Real Estate Lending Officer (Residential or Commercial) · Real Estate Market Research Analyst · Real Estate Securities Analyst · Real Estate Syndicator · Reality Consultant · Right of Way Agent · Sales Representative · Securities Analyst · Site Feasibility Consultant · Title Officer · Treasurer

Contact Information

Office of the Dean

Tahoe Hall 1010
Email: cob@csus.edu
Phone: (916) 278-6578
College of Business Website (https://www.csus.edu/college/business-administration/)
Jean-Francois Coget, Dean
Mylah Nurse, Executive Assistant to the Dean
Cyndy LaFitte, Budget Analyst
Douglas, Evans, Marketing Specialist
Ale Reiher, Administrative Coordinator
Tim Richter, Director of Development

Office of the Associate Dean for Faculty Support

Tahoe Hall 2130
(916) 278-5577
Jaydeep Balakrishnan, Associate Dean
Angela Park-Girouard, Administrative Analyst
Jeannie Hansen, Faculty Personnel Analyst

Office of the Associate Dean for Academic Programs

Tahoe Hall 2028
(916) 278-6463
Andrey Mikhailitchenko, Associate Dean
Barbara (Mei Po) Vong, Administrative Analyst
Maryam Sabet, Academic Programs Coordinator & Enrolment Specialist

Office of Student Engagement

Tahoe Hall 1030
(916) 278-BIZZ (2499)
Bonnie McDonald Beevers, Director
Sanitta Coey, Administrative Coordinator
Maggie Hansen, Program Coordinator

Undergraduate Business Advising Center

Tahoe Hall 1030
(916) 278-BIZZ (2499)
Website: https://www.csus.edu/college/business-administration/undergraduate/ (/https://www.csus.edu/college/business-administration/undergraduate/)
Email: cba-ugrad@csus.edu

Graduate Programs Office

(EPP / MPS / Grad Career Svs.)
Tahoe Hall 1020
Oliver Liu, Interim Director of Graduate Programs

Executive & Professional Programs (EPP)

(916) 278-5767
Email: cba-grad@csus.edu
Claire Goldsby, Graduate Programs Coordinator
Maryanne Ruperto, Administrative Coordinator
Serena Hoffman, EPP Advisor

MBA Program Services (MPS)
(916) 278-3354
theories.
given to flow of funds analysis within the context of emerging financial
important substitutes for money in the traditional sense. Emphasis is
the network of institutions which bring into existence the increasingly
Designed to broaden understanding of the financial system to include
Term Typically Offered: 
Prerequisite(s): 
FIN 101. Business Finance. 3 Units
Term Typically Offered: Fall, Spring
Study of principles of finance and their application to typical financial problems of business enterprises. Special emphasis on financial analysis, management of working capital, cost of capital, capital budgeting, long-term financing, dividend policy, and internal financing.
FIN 134. Financial Management. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring
Trends in the development of financial policy are analyzed and reports on specific aspects are presented in class. The student is placed in the position of the financial manager who must make decisions and implement them.
FIN 135. Investments. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring
Significant characteristics of numerous types of investments; securities markets and financial institutions; principles of investment analysis; investment management.
FIN 136. Modern Portfolio Management. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring
Asset management utilizing the major aspects of modern portfolio theory, portfolio construction and selection, portfolio performance evaluation, capital asset pricing models, and recent theoretical developments in asset pricing behavior.
FIN 137. Financial Institutions and Markets. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring
Designed to broaden understanding of the financial system to include the network of institutions which bring into existence the increasingly important substitutes for money in the traditional sense. Emphasis is given to flow of funds analysis within the context of emerging financial theories.

FIN 138. Principles of Risk Management and Insurance. 3 Units
Prerequisite(s): Must be a business major (any concentration) or Public Health major (Occupational Health & Safety concentration) or Real Estate & Land Use Affairs minor or a Risk Mgmt & Insurance minor
Term Typically Offered: Fall, Spring
Study of the concept of pure risk and its implications for decision making. Provides business students the basics of risk theory and its application to risk management or insurance purchasing using a personal consumer’s viewpoint. Practical personalized examples and cases will be used to illustrate risk decision making, primarily on a personal basis, but also in selected business decisions. Topics include risk theory and applications, life insurance, medical coverage, property insurances, and liability insurances.
FIN 139. Business Property and Liability Insurance. 3 Units
Prerequisite(s): FIN 138 or instructor permission.
Term Typically Offered: Fall, Spring
Concentrated and analytical approach to the study of property and liability loss exposures for the business enterprise. While the emphasis is on the different types of business insurance coverage's, a risk management approach and examples are used. Topics include business property insurances; liability, especially workers' compensation; the SMP and CGL contracts; business auto, crime coverage's; bonds; transportation insurance; consequential coverage's; and capacity and other related marketplace problems. Case studies and problems, as well as a computer analysis are used. The course is an excellent supplement for insurance, finance, real estate and pre-law majors, small business owners, and anyone who will be making business financial decisions, or providing insurance products in the insurance industry. Successfully completing FIN 138 and 139 substitutes for the one-year experience requirement for those interested in taking the Insurance Broker's Licensing Exam.
FIN 140. Employee Benefits. 3 Units
Prerequisite(s): FIN 138 or instructor permission.
Term Typically Offered: Fall, Spring
Intensive and analytical examination of the employee benefit planning environment and its risk exposures. Using a risk management approach, the topical areas studied include mandatory programs, especially OASDHI and ERISA; health care; group life and disability; retirement income and capital accumulation plans; paid time off; family-centered benefits; flexible benefits and cafeteria plans; and benefit cost information. Case studies and extensive contact with the business community as well as team projects are required. This is an important class for specialists in human resources management, especially personnel, pre-law, and health care or those who will be providing insurance products to fulfill employment benefit needs.
FIN 141. Managerial Real Estate Law. 3 Units
Prerequisite(s): FIN 19
Term Typically Offered: Fall, Spring
Examination of the decision making process in land utilization transactions relative to the minimization of risks of legal confrontation. Traditional conflicts underlying real estate transactions are examined and principles of preventive law are derived. The management of litigation and transaction attorneys is considered. Court remedies that are pertinent to land utilization transactions are analyzed and compared to nonjudicial alternatives.
FIN 142. Real Estate Finance. 3 Units
Prerequisite(s): FIN 19 or ACCY 121 or FIN 101 or ENGR 140; Business Majors only
Term Typically Offered: Fall, Spring
Examination of the mechanisms of real estate finance, sources of funds, loan contracts, principles of mortgage risk analysis, and the role of group equity investment. The evolution of secondary mortgage markets, government policy, and market interference will be investigated from a risk management standpoint.
FIN 143. Real Estate Investment. 3 Units
Prerequisite(s): FIN 19 or ACCY 121 or FIN 101 or ENGR 140; business majors only
Term Typically Offered: Fall, Spring
Analyzes non-financial and financial factors influencing investment decision making in income producing property. Topics include: location and its linkages; methods of estimating demand for real estate; methods for evaluating competing supply; use of market analysis in decision making; development of cash flow statements, alternative investment criteria, risk, legal, financing, and tax analysis, operating, financing investment and reversion decisions.
FIN 144. Real Estate Market Analysis. 3 Units
Prerequisite(s): FIN 19 or FIN 101; must be Business Major (any concentration) or Real Estate and Land Use Minor.
Term Typically Offered: Fall, Spring
Introduction to real estate markets, economic analysis of property markets, and impact of local governments on real estate markets. Topics include space and asset markets; location, land use and competitive bidding; land markets, housing markets, and site selection; economic growth and real estate markets, office, retail, and industrial markets; impact of local governments on real estate markets; tools of market analysis, computer applications and geographic information systems.
FIN 145. Real Estate Development and Land Use. 3 Units
Prerequisite(s): FIN 19 or FIN 101; must be Business Major (any concentration) or Real Estate and Land Use Minor.
Term Typically Offered: Fall, Spring
Process of real estate development and the federal and state laws that regulate development. Topics may include creating industrial real estate, office space, shopping centers, and hotel/recreation facilities, strategy, market and feasibility analysis; site planning/design; capital cost analysis; construction; financial structuring; federal and state laws that regulate environment impact; land use and real estate development. Emphasis on case studies and a project analysis.
FIN 149. Real Estate Analytics. 3 Units
Prerequisite(s): FIN 19 or FIN 101; must be Business Major (any concentration) or Real Estate and Land Use Minor.
Term Typically Offered: Fall, Spring
Examines contemporary and emerging issues in real estate trends, space and asset market equilibrium, land use controls and regulation, market analysis, mortgage markets, property markets, real estate cycles, real estate development, real estate finance and investments, real estate securities, and/or real estate taxation. Use of computer software and applications are emphasized to understand real estate analytics and geographic information systems applications to real estate data.
FIN 150. Capstone in Professional Financial Planning. 3 Units
Prerequisite(s): ACCY 171, FIN 135, FIN 136, FIN 138 and FIN 140; FIN 136 and/or FIN 140 may be taken concurrently.
Term Typically Offered: Spring only
This course will engage the student in critical thinking and decision-making about personal financial management topics in the context of the financial planning process. The purpose of this course is to refine and develop skills needed for personal financial planners when working with individuals, families, and business owners in meeting financial needs and objectives.
FIN 160. Student Investment Fund Management. 3 Units
Prerequisite(s): FIN 134, FIN 135, or FIN 136 with a final posted grade of B- or higher or FIN 101 with a final posted grade of A- or higher; must be in Bachelor of Science in Business Administration major or minor
Term Typically Offered: Fall, Spring
Students will manage a real investment portfolio by applying theories of investment analysis and portfolio management. Topics include economic analysis, valuation theories, risk measurement and management, performance measurement, and benchmarking.
FIN 190. Multinational Business Finance. 3 Units
Prerequisite(s): FIN 101 or instructor permission. Prior additional course in finance or international business recommended but not required.
Term Typically Offered: Fall, Spring
Principles of international financial management. Issues covered include the international environment of financial management, uses of foreign exchange spot, forward, futures, options, and swap markets, foreign exchange risk management, international investment and financing decisions.
FIN 194. Cooperative Education Experiences in Real Estate. 6-12 Units
Prerequisite(s): FIN 19, FIN 142 and a minimum overall GPA of 2.5; Business major only
Term Typically Offered: Fall, Spring
In-depth supervised work experience in Real Estate and Land Use Affairs. This supervised work experience allows the student to become familiar with the practices of the real estate industry and/or governmental agencies.
Note: Open to all upper division students subject to permission. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit
FIN 195. Internship In Finance. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring
Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Finance Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only.
Credit/No Credit
FIN 195A. Internship in Real Estate and Land Use Affairs. 3 - 6 Units
Prerequisite(s): FIN 19 and FIN 142. Minimum Sacramento State GPA of 2.5 required; open to declared business administration majors only
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

FIN 196A. Exper Offer Finance. 3 Units
Prerequisite(s): FIN 135 with a final posted grade of B- or higher and instructor’s consent.
Term Typically Offered: Fall, Spring

Students will manage a real investment portfolio by applying theories of investment analysis and portfolio management. Topics include economic analysis, valuation theories, risk measurement and management, performance measurement, and benchmarking.

FIN 199. Special Problems in Finance. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Credit/No Credit

FIN 200. Financial Reporting and Analysis. 3 Units
Term Typically Offered: Fall, Spring

Designed for business students with prior knowledge of accounting who intend to use corporate financial statements intensively in valuation, credit or equity analysis, or strategic competitor analysis. Topics include inventory, pensions, business combination, income tax and other current issues for their impacts on financial statement. Emphasis on financial statement analysis and interpretation of financial disclosures for improving risk assessment, forecasting, and decision-making.

FIN 210. Financial Institution Management. 3 Units
Term Typically Offered: Fall, Spring

Develop an understanding of the theory and practice of the management of financial institutions. Emphasis is placed on risk measurement and management. Financial institutions include commercial banks, investment banks, savings banks, credit unions insurance companies and financial companies such as mutual funds.

FIN 220. Corporate Finance. 3 Units
Term Typically Offered: Fall, Spring

Investigate the principles that corporations use in their investing, financing, and day-to-day management decisions. Topics include financial statement analysis, capital investment decision, capital structure, dividend policy, mergers and acquisitions, corporate governance and its impact on valuation.

FIN 230. Equity Analyses. 3 Units
Term Typically Offered: Fall, Spring

Covers advanced concepts and techniques essential to asset valuation. Key topics include, but not limited to, free cash flow, price multiples, asset-based and contingent claim valuations. Applications of various valuation techniques are emphasized. Provides a framework for selecting the most appropriate model for specific circumstances.

FIN 240. Fixed Income. 3 Units
Term Typically Offered: Fall, Spring

Discuss a wide range of fixed income products. Topics include trading concepts and mechanics, pricing, duration, convexity, term structure of interest rates, and options embedded fixed income securities.

FIN 250. Derivatives. 3 Units
Term Typically Offered: Fall, Spring

Discuss major types of financial derivatives and derivative markets. Topics include forward contracts, futures, options, SWAP's and credit derivatives. Emphasis on characteristics, trading process, pricing, parity conditions, risk involved, and investment strategies for different financial derivatives.

FIN 260. Alternative Investments. 3 Units
Term Typically Offered: Fall, Spring

Discuss major types of alternative investments including real estate, hedge funds, commodities, private equity, and venture capital. Emphasis on the technical aspects and the performance analyses of alternative investments, their advantages and disadvantages, role of alternative investments, and strategies of selection.

FIN 270. Portfolio Management. 3 Units
Term Typically Offered: Fall, Spring

Cover topics of asset management utilizing the major aspects of Markowitz portfolio theory, Capital ASSET Pricing Model, and Arbitrage Pricing theory. Discuss the comprehensive approach, starting with portfolio construction and asset selection, following with portfolio performance evaluation, and concluding with rebalancing strategies. Introduce and utilize worksheet modeling techniques which are useful for portfolio management.

FIN 280. Global Financial Markets. 3 Units
Term Typically Offered: Fall, Spring

Cover advanced concepts and applied techniques essential to understand the mechanism of the global financial markets. Key topics include global capital allocation, international tax management, foreign exchange markets, derivatives, parity relationships, and others. Focuses on the core concepts and techniques are applied in the global financial markets using different case studies. Integrate the key principles of finance and extends them to a multinational setting. Topics follow the Chartered Financial Analyst (CFA) Level 1 and 2 Exam on equity valuation.

FIN 290. Special Problems in Finance. 3 Units
Prerequisite(s): Classified graduate status or instructor approval
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Enrollment requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs; 6 units maximum; May be repeated for credit.
FIN 500. Culminating Experience Project in Finance and Ethics. 3 Units
Prerequisite(s): Advancement to candidacy; 12 units of any combination of the following courses: FIN 200, FIN 210, FIN 220, FIN 230, FIN 240, FIN 250, FIN 260, FIN 270 and FIN 280.
Term Typically Offered: Fall, Spring

Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MS in Finance program as required in Title V of the CA Educational Code. The course also covers the ethical conduct and professional standards as outlined in CFA institute standards.

Note: May be repeated for credit

BS in Business Administration (Finance)

Units required for Major: 66
Total units required for BS: 120

Program Description

The Finance concentration emphasizes a conceptual and applied approach to the development of professional skills necessary for careers in such fields as banking, investments, corporate financial management, financial planning, insurance, and financial services. Consideration and emphasis is given to the role played by financial markets, financial intermediaries, nonfinancial corporations, governments, and individual investors in the global economy. The curriculum is designed to familiarize students with the financial management of business operations, the operation and management of financial institutions and markets, and the financial aspects of investing, portfolio management, and risk management.

Note: The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

Pre-Requisite Requirements

A student may not enroll in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of “C” or better in each course and an overall GPA of 2.0 (“C”), with the exception of MATH 24 which requires a minimum acceptable grade of “C” or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Computer Literacy

All business majors must meet spreadsheet competency prior to taking 100-level business courses. This requires completing MIS 10, Spreadsheet Skills (or equivalent).

Minimum Grade Requirements

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is “C-” with the exception of MATH 24 which requires a minimum acceptable grade of “C” or better.

A minimum grade point average of 2.0 (“C”) is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 2</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

1 Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/impaction.html for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 101</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>GM 105</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 101</td>
<td>Computer Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 101</td>
<td>Principles Of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>
BS in Business Administration (Finance)

**Finance (FIN) Concentration (21 units)**

**General Finance Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 134</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 135</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 136</td>
<td>Modern Portfolio Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 137</td>
<td>Financial Institutions and Markets</td>
<td>3</td>
</tr>
<tr>
<td>FIN 139</td>
<td>Business Property and Liability Insurance</td>
<td>3</td>
</tr>
</tbody>
</table>

**Group B Elective Courses (6 Units)**

Select two of the following:

- FIN 138: Principles of Risk Management and Insurance
- FIN 139: Business Property and Liability Insurance
- FIN 140: Employee Benefits
- FIN 142: Real Estate Finance
- FIN 143: Real Estate Investment
- FIN 144: Real Estate Market Analysis
- FIN 145: Real Estate Development and Land Use
- FIN 160: Student Investment Fund Management
- PUBH 108: Occupational Health and Safety Laws and Regulations
- PUBH 109: Cause and Control of Occupational Loss
- PUBH 110: Issues in Occupational Health and Safety
- IBUS 190: International Business

**Total Units** 21

**Risk Management Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 134</td>
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<tr>
<td>FIN 135</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 138</td>
<td>Principles of Risk Management and Insurance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 139</td>
<td>Business Property and Liability Insurance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 140</td>
<td>Employee Benefits</td>
<td>3</td>
</tr>
</tbody>
</table>

**Group B Courses (6 Units)**

Select two of the following:

- ACCY 171: Federal Tax Procedures I
- ECON 100A: Intermediate Macroeconomic Theory
- ECON 100B: Intermediate Microeconomic Theory
- ECON 192: International Finance
- MKTG 115: Marketing Analytics
- MKTG 126: Salesmanship

**Total Units** 21

**Real Estate Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 134</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 135</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 142</td>
<td>Real Estate Finance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 143</td>
<td>Real Estate Investment</td>
<td>3</td>
</tr>
<tr>
<td>FIN 149</td>
<td>Real Estate Analytics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Group B Courses (6 Units)**

Select two of the following:

- ECON 180: Urban Economics
- FIN 19: Real Estate Principles
- FIN 136: Modern Portfolio Management
- FIN 137: Financial Institutions and Markets
- FIN 139: Business Property and Liability Insurance
- FIN 141: Managerial Real Estate Law
- FIN 144: Real Estate Market Analysis
- FIN 145: Real Estate Development and Land Use
- FIN 160: Student Investment Fund Management

**Total Units** 21

**Financial Planning Track**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 171</td>
<td>Federal Tax Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>FIN 135</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 136</td>
<td>Modern Portfolio Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 138</td>
<td>Principles of Risk Management and Insurance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 140</td>
<td>Employee Benefits</td>
<td>3</td>
</tr>
<tr>
<td>FIN 150</td>
<td>Capstone in Professional Financial Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units** 21

**General Education Requirements**

**Area A: Basic Subjects (9 Units)**

- A1: Oral Communication
- A2: Written Communication
- A3: Critical Thinking

**Area B: Physical Universe and Its Life Forms (10 Units)**

- B1: Physical Science
- B2: Life Forms
- B3: Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)

**Area C: Arts and Humanities (12 Units)**

- B5: Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.
## Graduation Requirements

Graduation Requirements (required by Sacramento State) (6 Units)
- American Institutions: U.S. Constitution & CA Government 3

Graduation Requirements (required by CSU) (9 Units)
- Code 2

Area D Course - The Individual and Society (6 Units)
- Area D Course 3
- Area D Course - Take upper-division course to complete Area & upper division requirements.

Area E: Understanding Personal Development (3 Units)
- Area E Course 3

Area F: Ethnic Studies (3 Units)
- Area F Course 3

Total Units 43

---

### MBA (Finance)

Total units required for MBA: 33

#### Program Description

The MBA is intended to improve the participant’s capacity for effective decision making, to facilitate his/her professional growth and development for increasing managerial responsibility, and to broaden his/her knowledge and understanding of management.

MBA Finance concentration provides an advanced understanding of financial theory and techniques, with many opportunities for hands-on experience with state of the art financial tools for analysis. Students earn managerial and technical expertise in areas such as investment, financial advising, banking, asset and portfolio management, security analysis, underwriting, real estate, and risk management. The design of the concentration allows students to pursue several areas of interest while gaining a broad understanding of the complex financial field.

#### Admission Requirements

All applicants for post-baccalaureate degree programs in Business must have earned a baccalaureate degree from a regionally accredited four-year institution of higher learning or the equivalent from a foreign institution. Admission requirements are different for each of the CBA Graduate Programs. The specific admission requirements for each degree program are listed within the program descriptions under “Admission Information” on the following pages. The College of Business Administration reserves the rights to revise its admissions standards and to limit enrollment in its graduate degree programs.

Applicants who are approved for admission will receive a letter from the Office of Graduate Studies informing them that they have been admitted as a conditionally or fully classified graduate student.

The following represent minimum academic qualifications and admission criteria. As the College of Business Administration receives a large number of applications each cycle, it reserves the right to admit fewer applicants than those who meet the minimum criteria.

Title V of the California Educational Code requires that MBA candidates must have earned a minimum 2.5 cumulative GPA and an undergraduate degree from an accredited institution.

Unless a valid waiver is presented, applicants must also submit a valid admission test (GMAT or GRE) and/or English Language Proficiency exam scores.

#### Minimum Admission or Language Test Scores

- **GMAT**: 30% overall, 30% verbal, 30% quantitative; Scores valid for 5 years from test date. Test must be taken by the application deadline. Students are able to apply with pending scores, but must submit an official score report to be considered for admission.

- **GRE (General Test)**: 30% verbal, 30% quantitative; Scores valid for 5 years from test date. Test must be taken by the application deadline. Students are able to apply with pending scores, but must submit an official score report to be considered for admission (use institution code of 4671 ONLY when requesting official score reports be sent to Sacramento State; do not use department code).
TOEFL: Paper-based: 550; Internet-based: 80 (International Students only).

IELTS: 7 (International Students only).

Deadlines

See the CBA MBA Web site for current admission deadlines: https://www.csus.edu/college/business-administration/graduate/mba.html

Special Admission Process

Applicants not meeting all the admission criteria may be admitted to the program based on evidence of potential success in the program provided by the applicant. Such evidence may include, but is not limited to: the applicant’s maturity, motivation, employment history, managerial potential, letters of recommendation, personal statement, community activities, and other accomplishments that support the applicant’s potential to successfully complete the program. An applicant so considered and recommended for admission may be approved by the Graduate Dean or Dean’s designee.

Application Procedures

All prospective graduate students must file all of the following documents by the application deadline with both the CBA MBA Program Services and the Sacramento State Office of Graduate Studies (River Front Center 215) as noted below:

1. To Sacramento State, Office of Graduate Studies:
   a. Online Cal State Apply Graduate Application and Application Fee (you can pay this when you are filling out your online application).
   b. Copies of official transcripts from all colleges and universities attended. Sacramento State current students or graduates: only submit transcripts not previously submitted to the university or from institutions attended after graduation.

2. To the College of Business Administration, MBA Program Services Office, the following are required for a complete application:
   a. The MBA Supplementary Application.
   b. Supplemental Application Materials.
      i. Official GMAT or GRE scores;
      ii. Current resume;
      iii. 1-2 page statement of purpose;
      iv. Two letters of recommendation.
   c. Copies of official transcripts. Please request 2 copies of official transcripts from all colleges and universities you have attended. Send transcripts to both the MBA Program Services office and the Office of Graduate Studies. Sacramento State current students or graduates: only submit transcripts not previously submitted to the university or from institutions attended after graduation.

Note: Applications are not considered complete and will not be reviewed unless all application materials and transcripts have been received.

Application Submission

College of Business Administration
MBA Program Services
Tahoe Hall, Room 1020
Sacramento State
6000 J Street
Sacramento, CA 95819-6088

Web site: https://www.csus.edu/college/business-administration/graduate/mba.html
Phone: (916) 278-4501
Email: mba@csus.edu

And to:
Office of Graduate Studies
Sacramento State
River Front Center, Room 215
6000 J Street
Sacramento, CA 95819-6112
Web site: https://www.csus.edu/graduate-studies/
Phone: (916) 278-6470
Email: grad_admissions@csus.edu

International Applicants

International students (F or J Visas) must apply through International Admissions (https://www.csus.edu/international-programs-global-engagement/application-admissions-process/). Do not fill out the general graduate studies application as it will slow down your application process. All materials, inclusive of TOEFL scores, must be turned in to the International Admissions Office. To ensure consideration, international students should submit their material, including GMAT/GRE and TOEFL test scores, to the International Admissions Office one month prior to the CBA MBA Program Services application filing deadline. For an application and details international students should visit The International Admissions Office Web site. (https://www.csus.edu/international-programs-global-engagement/application-admissions-process/)

Prerequisites

Prior to enrolling in the Foundation courses, students must be proficient in mathematics, statistics, and computer usage:

• Mathematics: at least one semester of calculus is strongly preferred;
• Statistics: an introductory course in probability and statistics; and
• Computer usage: ability to use common personal computer hardware and software, particularly word processing programs, spreadsheet programs, and internet browsers.

The faculty will assume that all MBA students have these proficiencies. A student may gain the necessary proficiencies in many ways: through coursework, review classes, self-study, or experience. No proficiency courses can count as credit towards program requirements.

Graduate Writing Assessment Requirement (GWAR)

The Graduate GWAR is a CSU wide requirement that should be completed by students before advancing to candidacy. The purpose of the GWAR is for students to demonstrate their proficiency at writing in an academic setting at a graduate-level.

Graduate students must successfully pass a Graduate Writing Intensive (GWI) course in their Graduate Program to complete the requirement.

Foundation Courses

The Foundation courses provide an academic background in the various disciplines of business. The MBA degree program is built upon this common background. Foundation courses should be taken after the student has attained the required entry proficiencies (prerequisites) and should be completed prior to taking program requirement courses.

A student who has a baccalaureate degree or a minor in Business Administration from an AACSB-INTERNATIONAL accredited university
may have completed all or most of the Foundation requirements. However, the student will be required to take certain Foundation courses if she/he:

1. has not previously completed the comparable undergraduate course(s) for academic credit from an AACSB-INTERNATIONAL accredited institution or from a high quality program that has a "national or international reputation;"
2. has earned less than an overall 3.0 ("B") grade point average (GPA) in the comparable undergraduate courses presented for waiver of required courses;
3. has received a "C" or lower grade in the comparable undergraduate course;
4. cannot demonstrate currency in these courses (7 year limit); or
5. has completed the bachelor's degree at a foreign institution.

Courses taken at AACSB-INTERNATIONAL accredited colleges of business will be accepted for transfer credit if the course is regarded as equivalent to the course for which credit is requested. Business Foundation courses and Core courses will not be accepted for transfer credit from programs that are not AACSB-INTERNATIONAL accredited unless taken at institutions that have national or international reputations of high quality programs.

Please visit the MBA Program website to download Foundation Course Waiver forms and petitions for equivalency for graduate, non-articulated courses. The CBA Academic Standards Committee will evaluate whether the institutions satisfy the requirement of "national or international reputations of high quality programs." Subsequently, faculty in the appropriate department will make the final determination for course equivalency, e.g., content, method of instruction, method of evaluating students, and/or course duration. To find out if your university is AACSB accredited go to www.AACSB.edu.

Master students who are registered in the last two Foundation courses must file an Application for Classification with the MBA Program Services at mps@csus.edu, to be able to enroll in the courses designated as Program Requirements. The student’s academic status will be reviewed to assure that he/she meets the necessary criteria to be accepted as a classified graduate student.

A GPA of at least 3.0 ("B") is required in all Foundation courses taken at Sacramento State, and program requirement courses presented for the degree.

The foundation courses are available after acceptance into one of the CBA Graduate Programs.

Note: To be completed after the student has demonstrated the required entry proficiencies and must be completed prior to taking Program Requirements in any of the Master's programs.

A graduate student may request a challenge for waiver of a College of Business Administration foundation or core course if it at least one of the following conditions is met:

- The student has taken an equivalent class elsewhere, subject to the GPA requirement in CBA academic policy. For core classes, the equivalent class must be at the graduate level; for the foundation classes, the equivalent class can be taken at the undergraduate level.
- The student has achieved appropriate professional or academic qualification.
- The student has appropriate professional work experience.

It is the responsibility of a student to provide sufficient documentation to support a waiver challenge application.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 204</td>
<td>Business Economics</td>
<td>3</td>
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<tr>
<td>MBA 201</td>
<td>Accounting</td>
<td>2</td>
</tr>
<tr>
<td>MBA 202</td>
<td>Business Communication</td>
<td>2</td>
</tr>
</tbody>
</table>

This requirement will be waived for students who achieve a score of 4.5 or higher on the Analytical Writing Assessment (AWA) section of the GMAT or GRE exam.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MBA 203</td>
<td>Legal Environment of Management</td>
<td>2</td>
</tr>
<tr>
<td>MBA 206</td>
<td>Managerial Statistics Analysis</td>
<td>2</td>
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</tbody>
</table>

Total Units: 11

Minimum Units and Grade Requirement for the Degree

Units required for MBA: 33 (excluding foundation courses)

Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is "C." No more than two (2) courses with a grade of "C" will be counted for satisfaction of graduate program requirements.

Advancement to Candidacy

A student’s program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the MBA Program Services at mps@csus.edu for advancement to candidacy for the Master’s degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>MBA 210</td>
<td>Managerial Accounting</td>
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<tr>
<td>MBA 220</td>
<td>Financial Management</td>
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<tr>
<td>MBA 230</td>
<td>Behavior Science Applications in Management</td>
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<td>MBA 240</td>
<td>Marketing Management</td>
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<td>MBA 280</td>
<td>Value Chain Integration</td>
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Select at least three of the following:

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<td>MBA 221</td>
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<tr>
<td>MBA 222</td>
<td>Security Analysis and Portfolio Management</td>
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</tr>
<tr>
<td>MBA 223</td>
<td>Asset Valuation</td>
<td></td>
</tr>
<tr>
<td>MBA 224</td>
<td>Advanced Investment Strategies</td>
<td></td>
</tr>
</tbody>
</table>
Minor in Real Estate and Land Use Affairs

Units required for the Minor: 15, of which at least nine upper division units must be taken in residence.

Program Description

The minor in Real Estate and Land Use is designed to provide students in other fields with the opportunity to broaden their undergraduate education and to acquire specialized skills useful in a wide range of job opportunities in the real estate industry.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>FIN 19</td>
<td>Real Estate Principles</td>
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Select three of the following:

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<tbody>
<tr>
<td>FIN 142</td>
<td>Real Estate Finance</td>
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<td>FIN 143</td>
<td>Real Estate Investment</td>
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<tr>
<td>FIN 144</td>
<td>Real Estate Market Analysis</td>
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</tr>
<tr>
<td>FIN 149</td>
<td>Real Estate Analytics</td>
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</table>

Select one of the following:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>FIN 138</td>
<td>Principles of Risk Management and Insurance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 139</td>
<td>Business Property and Liability Insurance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 140</td>
<td>Employee Benefits</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 20</td>
<td>Introduction To Business</td>
<td>1</td>
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</table>

Total Units: 15

1 Business majors may substitute any approved upper-division business course. Substitution requires the approval of the Department Chair.

MS in Finance

The Master of Science in Finance program prepares students with a strong foundation of investment analysis and portfolio management skills, as well as practical knowledge needed in today's investment industry. The program incorporates significant portion of the curriculum of the Chartered Financial Analyst (CFA) curriculum, a curriculum widely accepted as the industry standard for investment professionals. The core

Units required for MSF: 30

**Admission Requirements**

All applicants for post-baccalaureate degree programs in Business must have earned a baccalaureate degree from a regionally accredited four-year institution of higher learning or the equivalent from a foreign institution.

Applicants have to submit the following information to be considered for admission:

- Official undergraduate transcript
- GMAT score
- 2.50 as the minimum overall undergraduate GPA required by the University
- Two letters of recommendation
- Statement of purpose for enrolling in the program
- Work experience is preferred but not required
- For international students, the University requires that applicants for graduate programs who have not completed a baccalaureate degree from a postsecondary educational institution where English is the principal language of instruction must achieve a minimum score on the Test of English as a Foreign Language (TOEFL) prior to admission to CSUS, which may be satisfied in one of the following ways: 550 on the paper-based TOEFL, or 80 on the internet-based TOEFL (IBT). Students may also demonstrate English language proficiency by possessing an overall band minimum score of 6.5 on the International English Language Testing System (IELTS).

Applicants' submitted information will be considered in its totality. Other than the minimum criteria as specified above, there are no other admission thresholds. One weak area can be compensated by another strong area in admission evaluation.

**Boot Camp Modules**

The program has six boot camp modules students have to finish before taking regular classes in the program. The six boot camp modules are:

- Basic Economics
- Basic Finance
- Quantitative Analyses I
- Quantitative Analyses II
- Financial Accounting
- Financial Modeling using Excel

**Minimum Units and Grade Requirement for Degree Completion**

Units required for MSF: 30 (excluding foundation courses)

Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is “C.” No more than two (2) courses with a grade of “C” will be counted for satisfaction of graduate program requirements.

**Graduate Writing Assessment Requirement (GWAR)**

The Graduate GWAR is a CSU wide requirement that should be completed by students before advancing to candidacy. The purpose of the GWAR is for students to demonstrate their proficiency at writing in an academic setting at a graduate-level.

Graduate students must successfully pass a Graduate Writing Intensive (GWI) course in their Graduate Program to complete the requirement.

**Advancement to Candidacy**

A student’s program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business may apply to the Graduate Programs Office for advancement to candidacy for the Master’s degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Graduate Writing Assessment Requirement (GWAR) cannot advance to candidacy.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>FIN 200</td>
<td>Financial Reporting and Analysis</td>
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<td>FIN 210</td>
<td>Financial Institution Management</td>
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<td>FIN 220</td>
<td>Corporate Finance</td>
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<td>FIN 230</td>
<td>Equity Analyses</td>
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<td>FIN 240</td>
<td>Fixed Income</td>
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<td>FIN 250</td>
<td>Derivatives</td>
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<td>FIN 260</td>
<td>Alternative Investments</td>
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<td>FIN 270</td>
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<td>FIN 280</td>
<td>Global Financial Markets</td>
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</tr>
<tr>
<td>FIN 500</td>
<td>Culminating Experience Project in Finance and Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**

30

1 May be replaced with FIN 299 with the approval of a faculty advisor or Associate Dean for Graduate and External Programs.

**Information Systems and Business Analytics**

*College of Business*

**Program Description**

The College of Business (COB) offers a broad professional education in Business. The Bachelor of Science program offers students a choice of 9 concentrations by which they may focus their goals. Additionally, the COB’s Business Honors program provides an alternative path to its
most capable students to prepare them for management opportunities. All students must choose a concentration to complete their requirements for the baccalaureate degree. Students who are uncertain about which concentration to choose are encouraged to select the General Management concentration, as it is the most comprehensive. The structure of the General Management concentration also provides an overlap with the other concentrations, thus making changes in focus possible. Students who wish a more customized program may elect to complete the requirements for additional concentrations as well. For example, students may elect dual concentrations such as General Management and Management of Human Resources and Organizational Behavior. For information about program options, please visit our website at: Undergraduate Programs | Sacramento State (csus.edu) (https://www.csus.edu/college/business-administration/undergraduate/).

The College also offers Minors in Business Administration, Management of Human Resources and Organizational Behavior, Marketing, Real Estate and Land Use Affairs, and Risk Management and Insurance. A Minor in Business Administration is valuable to the student majoring in another area who wishes to supplement his/her knowledge with a business background.

Degree Programs

BS in Business Administration (Management Information Systems) (p. 414)

Career Possibilities

Business Applications Programmer · Communications Analyst · Database Administrator · Database Specialist · Desktop Support · End-user Consultant · Information Systems Manager · Information Systems Specialist · Management Systems Consultant · Programmer/Analyst · Systems Analyst · Technical Writer · Technology Consultant · Web Developer

Contact Information

Office of the Dean

Tahoe Hall 1010
Email: cob@csus.edu
Phone: (916) 278-6578
College of Business Website (https://www.csus.edu/college/business-administration/)
Jean-Francois Coget, Dean
Mylah Nurse, Executive Assistant to the Dean
Cyndy LaFitte, Budget Analyst
Douglas, Evans, Marketing Specialist
Ale Reiher, Administrative Coordinator
Tim Richter, Director of Development

Office of the Associate Dean for Faculty Support

Tahoe Hall 2130
(916) 278-5577
Jaydeep Balakrishnan, Associate Dean
Angela Park-Girouard, Administrative Analyst
Jeannie Hansen, Faculty Personnel Analyst

Office of the Associate Dean for Academic Programs

Tahoe Hall 2028
(916) 278-6463
Andrey Mikhailichtenko, Associate Dean

Barbara (Mei Po) Vong, Administrative Analyst
Maryam Sabet, Academic Programs Coordinator & Enrolment Specialist

Office of Student Engagement

Tahoe Hall 1030
(916) 278-BIZZ (2499)
Bonnie McDonald Beevers, Director
Sanitta Coey, Administrative Coordinator
Maggie Hansen, Program Coordinator

Undergraduate Business Advising Center

Tahoe Hall 1030
(916) 278-BIZZ (2499)
Website: https://www.csus.edu/college/business-administration/undergraduate/ (https://www.csus.edu/college/business-administration/undergraduate/)
Email: cba-ugrad@csus.edu

Graduate Programs Office

(EPP / MPS / Grad Career Svs.)
Tahoe Hall 1020
Oliver Liu, Interim Director of Graduate Programs

Executive & Professional Programs (EPP)

(916) 278-5767
Email: cba-grad@csus.edu
Claire Goldsby, Graduate Programs Coordinator
Maryanne Ruperto, Administrative Coordinator
Serena Hoffman, EPP Advisor

MBA Program Services (MPS)

(916) 278-3354
Contact the MBA Program Services (https://www.csus.edu/college/business-administration/graduate/mba.html)
Sophie Mills, Graduate Recruitment & Admissions Coordinator
Jeanie Williams, Graduate Coordinator & MBA Advisor

Business Graduate Career Services

Tahoe Hall 2065
(916) 278-7142
Brent Bynum, Director

DS 101. Introduction to Business Analytics. 3 Units
Prerequisite(s): MATH 24, STAT 1; must be a business pre-major, business major (any concentration), or business minor, and have at least sophomore standing
Term Typically Offered: Fall, Spring
Introductory course in business analytics that focuses on the application of analytics linking data to business decisions.

DS 105. Decision Analytics. 3 Units
Prerequisite(s): MATH 24, STAT 1
Term Typically Offered: Fall, Spring
Introduces students to decision models for the solution and analysis of business problems. Topics include mathematical programming, decision theory, analysis of waiting lines, simulation, and Markov processes.
MIS 1. Word Processing. 3 Units
Term Typically Offered: Fall, Spring
The course teaches Microsoft Office Word that establishes a student’s fundamental computer skills required to perform business related tasks. Topics include developing and refining a document; identifying and correcting errors; formatting, modifying and printing documents; working with pictures, graphics, tables and charts; creating reports, forms, references and mailings; securing content and sharing documents, exploring advanced document features and macros, etc.

MIS 2. Spreadsheets. 3 Units
Term Typically Offered: Fall, Spring
The course teaches Microsoft Office Excel that establishes a student’s fundamental computer skills required to perform business related tasks. Topics include creating and formatting a worksheet; summarizing and analyzing data; using decision making tools; working with logical, statistical, database and financial functions, sharing data with other applications, etc.

MIS 3. Presentation Graphics. 3 Units
Term Typically Offered: Fall, Spring
The course teaches Microsoft Power Point that establishes a student’s fundamental computer skills required to perform business related tasks. Topics include creating, refining and delivering presentations; working with graphics, tables and charts; inserting and enhancing pictures, shapes, sound and video; using templates, slide masters and text boxes, printing, securing and sharing presentations, etc.

MIS 4. Database Applications. 3 Units
Term Typically Offered: Fall, Spring
Use of database management systems (DBMS) to provide students with fundamental information retrieval skills required to perform business related tasks. Topics include basic DBMS operations, working with tables, queries, forms, reports and data analysis.

MIS 5. Advanced Business Analytics. 3 Units
Term Typically Offered: Fall, Spring
This course introduces students to more advanced topics in business analytics including Neural Networks, Deep Learning, Text Mining, Social Network Analytics, Computer Vision, and their applications in business.

MIS 10. Business Applications. 3 Units
Term Typically Offered: Fall, Spring
The course teaches the use of spreadsheets to establish a students’ fundamental computer skills required to perform business related tasks. Topics include basic spreadsheet operations, working with charts and graphics, application of formulas and spreadsheet presentation formatting.

MIS 101. Computer Information Systems for Management. 3 Units
Term Typically Offered: Fall, Spring
Explores the application of computers to the organizational environment with a management perspective. Topics may include transaction processing systems, management reporting, decision support systems, strategic planning, security, controls and acquisition of hardware, software and services. The interface between the information systems professional and the manager will be defined. Case studies and use of appropriate software packages may be included.

MIS 120. Advanced Object-Oriented Business Programming. 3 Units
Term Typically Offered: Fall, Spring
Advanced course in programming principles using an Object Oriented (OO) programming language. Topics will focus on object-oriented (OO) programming including the design and development of OO applications, object classes, inheritance, polymorphism and encapsulation, and graphical user interface (GUI) application development including contrasting event-driven and procedural programming. Assignments will focus on problem-solving in a business context.

MIS 122. Object-Oriented Programming for Business in Java. 3 Units
Term Typically Offered: Fall, Spring
Advanced course in programming principles using an Object Oriented (OO) programming language. Topics will focus on object-oriented (OO) programming including the design and development of OO applications, object classes, inheritance, polymorphism and encapsulation, and graphical user interface (GUI) application development including contrasting event-driven and procedural programming.
MIS 124. Web Development for Business Applications. 3 Units
Prerequisite(s): MIS 120.
Term Typically Offered: Fall, Spring
Examines the technologies and principles of modern Web development in the creation of Web-based business applications. Emphasis will be given to client-side and server-side technologies and include the topics of basic Web technologies, forms, database access, frameworks, and Web services. Topics are accompanied by design principles, tools, and techniques for Web application development.

MIS 125. Mobile Business Application Development. 3 Units
Prerequisite(s): MIS 15
Term Typically Offered: Fall, Spring
Provides an introduction to the art and practice of mobile business application development on the Android or iOS platform. Topics will include, but are not limited to, business opportunities, challenges, and cost presented by mobile devices, user-driven design, personas, screen layouts, and use case diagramming. Students will design and build a variety of business applications throughout the course to reinforce learning and to develop real world competency.

MIS 140. Business Data Communication. 3 Units
Prerequisite(s): Business majors only
Term Typically Offered: Fall, Spring
Examines the basic terminology, hardware/software components, and issues with the establishment, configuration, and management of data communication networks in and across organizations. Topics include wired and wireless local area networks, wide area networks, the internet, and cloud infrastructure.

MIS 150. Database Systems for Business. 3 Units
Term Typically Offered: Fall, Spring
Involves the study of generalized database management systems. The study will include logical data base models and physical base models based primarily on the relational and object-relational models. The student will create and manipulate a database utilizing an established database management system. The importance of data administration and other database related topics such as independence, integrity, privacy, query, backup, and recovery will be covered.

MIS 151. End-User Database Application Development for Business. 3 Units
Prerequisite(s): MIS 1, MIS 2, MIS 3 or approved equivalent.
Term Typically Offered: Fall, Spring
Introduction to end-user database application development in the business environment. Topics will focus on issues in the development of business database applications and include database concepts, organization, storage and retrieval of data, query and analysis with interactive software tools, informative and performance management reporting.
Note: Not open to MIS students.

MIS 160. Systems Development Life Cycle. 3 Units
Prerequisite(s): MIS 101 and MGMT 102
Term Typically Offered: Fall, Spring
Analyze, design, and develop business information systems to solve information needs of businesses and organizations. Topics include various systems analysis and design techniques, tools and methods for building new and/or integrated information systems.

MIS 161. Information Systems Practicum. 3 Units
Prerequisite(s): MIS 15, MIS 150, MIS 160, and Business major or minor.
Term Typically Offered: Fall, Spring
This course provides a comprehensive integration of MIS coursework through the completion of an information systems project. Topics include information systems development life cycle, project management, application development, database management, and security.

MIS 163. Business Process Engineering and ERP Configuration. 3 Units
Term Typically Offered: Fall, Spring
This course focuses on identifying and understanding business requirements, modeling business processes that incorporate the business requirements, and configuring the processes for their implementation in an enterprise resource planning (ERP) system. Students will gain insights to implementation issues and propose alternative solutions to overcome them. A project team environment further develops individual student’s communication and team skills.

MIS 170. Information Systems Security. 3 Units
Prerequisite(s): MIS 140
Term Typically Offered: Fall, Spring
This course provides a comprehensive study of IT security principles and of information systems. Emphasis will be placed on understanding the framework of IT security in enterprise IT infrastructure. Topics include information security concepts, security risks and vulnerabilities, common attacking techniques, technical and administrative countermeasures for modern enterprise IT infrastructure, such as encryption, authentication, access control, security policies and standards, and IT risk management and audit.

MIS 171. Enterprise Resource Planning Systems. 3 Units
Prerequisite(s): MIS 101
Term Typically Offered: Fall, Spring
Foundation, business functions, processes, data requirements, development, and management of ERP systems for sales, marketing, accounting, finance, production, supply chain and customer relationship management. Emphasis on re-engineering, integration, standardization, and methodologies of ERP systems.

MIS 173. Microcomputers for Managers. 3 Units
Term Typically Offered: Fall, Spring
For students who want to have more than the minimum required personal computer literacy knowledge. The topics covered are: hardware, system software, utility software, spreadsheet modeling, the Internet, and presentation graphics.
Note: Not open to MIS students.

MIS 181. Machine Learning Applications in Business. 3 Units
Prerequisite(s): DS 101 and MIS 150
Term Typically Offered: Fall, Spring
Applies modern machine learning applications in business to data analysis and problem solving. Topics are presented in the context of decision support and may include knowledge representation, neural networks, genetic algorithms, rule induction, fuzzy logic, case-based reasoning and intelligent agents.

MIS 182. Data Mining and Business Intelligence. 3 Units
Prerequisite(s): MIS 101
Term Typically Offered: Fall, Spring
This course provides an introduction to data mining, business intelligence, and big data analysis. Topics include data preparation, data mining techniques, visualization, and applications in various domains such as marketing, finance, and healthcare.

MIS 185. Web Intelligence and Business Analytics. 3 Units
Prerequisite(s): MIS 101
Term Typically Offered: Fall, Spring
This course focuses on the use of Web technologies and data mining techniques for business intelligence and analytics. Topics include Web applications, data visualization, and predictive analytics.

MIS 186. Business Intelligence and Big Data. 3 Units
Prerequisite(s): MIS 101
Term Typically Offered: Fall, Spring
This course examines the role of business intelligence and big data in decision making. Topics include data warehousing, data mining, and business intelligence tools.

MIS 187. Data Science and Business Analytics. 3 Units
Prerequisite(s): MIS 101
Term Typically Offered: Fall, Spring
This course provides an introduction to data science and business analytics. Topics include statistical methods, machine learning algorithms, and data visualization.
MIS 182. Topics in MIS. 3 Units
Prerequisite(s): MIS 150, MIS 160.
Term Typically Offered: Fall, Spring
Current topics will be presented regarding the technical, managerial, and organization considerations affecting computer-based information systems. Topics may include programming languages and techniques, emerging technologies, and MIS development and implementation issues. Readings, topical research, case presentations, and/or projects will be required.

MIS 183. Business Intelligence Applications. 3 Units
Prerequisite(s): Business major and minor
Term Typically Offered: Fall, Spring
Advanced information technologies that extract non-trivial, actionable, and novel knowledge from data to achieve strategic goals of organizations. Emphasis on multidimensional data modeling, online analytic processing, data warehouse, and data mining.

MIS 191. Culminating Experience. 1 Unit
Prerequisite(s): Completion of all coursework in minor.
Term Typically Offered: Fall, Spring
Students demonstrate their knowledge and apply their skill sets from the minor to a working project, and conduct an executive-level, management-oriented presentation.
Note: Students must be in their final semester of the minor’s program.
Credit/No Credit

MIS 194. Cooperative Education Experience in Management Information Systems. 6 - 12 Units
Prerequisite(s): MIS 160, minimum Sacramento State overall GPA of 2.75.
Term Typically Offered: Fall, Spring
In-depth supervised work experience in management information systems for the purpose of exposing the student to comprehensive MIS experience in business, governmental, or service agencies. Open to all upper division students, subject to permission of the MIS Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

MIS 195. Internship in Management Information Systems. 3 - 6 Units
Prerequisite(s): MIS 160, minimum Sacramento State overall GPA of 2.75.
Term Typically Offered: Fall, Spring
Supervised work experience in management information systems for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission of the MIS Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Note: Open to declared business administration majors only.
Credit/No Credit

MIS 199. Special Problems in Management Information Systems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions may be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Credit/No Credit

MIS 210. Information Systems I. 3 Units
Term Typically Offered: Fall, Spring
Introduction to business information systems planning and systems development methodologies. Various methodologies are explored and information systems development project planning is emphasized.

MIS 211. Information Systems II. 3 Units
Term Typically Offered: Fall, Spring
Introduction to basic and object-oriented programming concepts, data structures for information representation, and database management systems.

MIS 232. Management Science. 3 Units
Term Typically Offered: Fall, Spring
Introduction to deterministic and stochastic models in operations research. Topics that may be included are: mathematical programming, inventory theory, analysis of waiting lines, Markov processes, game theory, decision theory and simulation. Various computer programs such as LINDO are used to assist in solution and analysis of management problems.
Note: Not open to students with credit for MIS 132.

MIS 240. Communications Technologies for Business. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring
Focuses on the concepts, technology, applications, and management of data and voice communication with an emphasis on building, supporting, securing, and administering the requirements of network infrastructure and architecture to support businesses.
Note: May be taken twice for credit.

MIS 250. Data Management. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission, and MIS 15 or equivalent.
Term Typically Offered: Fall, Spring
Focuses on database concepts, design and implementation in business. Topics include database design techniques, such as extended entity-relationship and unified modeling language, logical and physical data models for objection-relational database, object oriented database and relational databases, database implementation and administration issues, and the discussion of distributed database, web database, and database security.
Note: May be taken twice for credit.
MIS 251. Strategic Applications of Information Resources. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 210 and 211, or their equivalents. MBA students: MBA 260 and instructor permission.
Term Typically Offered: Fall, Spring
Discussion of the techniques and methodologies to utilize information resource to improve an organization’s strategic performance measures. Topics include data warehouse, data mining, online analytical transaction processing, and multidimensional database.

MIS 260. Systems Design. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring
Involves the study of various methods used to analyze and design a computer-based information systems and emphasizes object-oriented systems development (OOSD) techniques.
Note: May be taken twice for credit.

MIS 261. Information Technology Integration for the Enterprise. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 260 or MIS 270; MBA students: MBA 260 or permission of instructor.
Term Typically Offered: Fall, Spring
IT presents many new opportunities at the enterprise level for the design and implementation of integrated organizational structures and business processes that better align the business to meeting its market demands and allow it to pursue new strategic relationships with other organizations. Enterprise IT primarily involves enterprise resource planning (ERP), supply chain management (SCM), knowledge management (KM), and customer relationship management (CRM) to support and coordinate business activities.
Note: May be taken twice for credit.

MIS 262. Business Project Management. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 260; MBA students: MBA 260 or instructor permission.
Term Typically Offered: Fall, Spring
Examines various aspects of IT project management, including project selection involving feasibility, complexity, scalability and impact comparisons, project portfolio to direct the right resources to the right projects to ensure their timely completion, risk assessment, key performance measures, and others.
Note: May be taken twice for credit.

MIS 270. Information Technology Operations. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring
Examines the management of information technology as a vital resource to an organization. IT can enable businesses to seize opportunities, gain competitive advantages and establish close relationships with other businesses and their customers. Thus, the business must effectively and efficiently manage and secure its IT resources.
Note: May be taken twice for credit.

MIS 272. Strategic Information Technology Planning. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 270; MBA students: MBA 260 or instructor permission.
Term Typically Offered: Fall, Spring
Strategic IT planning defines the direction a business chooses for its IT resources. It encompasses a vision, mission, strategy, and objectives that closely align to the business’ vision, mission, strategy, and objectives. Planning involves examining how IT will support the achievement of the business’ goals and objectives, and how IT can open new opportunities to create new business goals.
Note: May be taken twice for credit.

MIS 279. Information Technology Leadership. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 261 or MIS 262, MIS 272; MBA students: MBA 260 and instructor permission.
Term Typically Offered: Fall, Spring
Leadership plays an important role in determining a business’ success with IT. It requires recognizing and leveraging the businesses’ competencies and core values, and championing initiatives and projects that work in the best interest of the business and create value. Because IT opens opportunities and enables the organization, IT leadership extends to both market (external) and organizational (internal) environments.
Note: May be taken twice for credit.

MIS 280. Decision and Knowledge-Based Systems. 3 Units
Prerequisite(s): MIS 211 or equivalent.
Term Typically Offered: Fall, Spring
Organizational use of information generated from transaction processing systems, management information systems, and decision support systems. The uses of information by managers for planning, control, and decision-making purposes will be discussed. The types of information systems implemented in various kinds of organizations will be covered.

MIS 281. Topics in the Management of Information Systems. 3 Units
Prerequisite(s): Open to non-MSBA/MIS majors with credit in MBA 260 or equivalent; and to those who have completed MSBA/MIS Program Prerequisites.
Term Typically Offered: Fall, Spring
Current topics will be presented regarding the managerial, behavioral, and organizational considerations affecting computer-based information systems. Includes topics such as project selection and justification techniques, system controls, security and privacy issues, strategic planning, and use/data processing department relations. Readings, topical research, and case presentations will be required.

MIS 295. Internship in Management Information Systems. 3 Units
Prerequisite(s): Completion of two of the following: MIS 240, MIS 250, MIS 260, or MIS 270; minimum Sacramento State GPA of 3.0.
Term Typically Offered: Fall, Spring
Supervised work experience in management information systems for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions to be obtained from Tahoe Hall 1037.
Credit/No Credit
## MIS 299. Special Problems in Management Information Systems.

**Prerequisite(s):** Classified graduate status.

**Term Typically Offered:** Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.

**Note:** Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval of the Graduate Programs Office. Petitions to be obtained from Tahoe Hall 1035.

**Credit/No Credit**

**MIS 500A. Thesis.**

**Prerequisite(s):** Advanced to candidacy. Completion of MBA 244.

**Term Typically Offered:** Fall, Spring

Completion of a thesis approved for the Master’s degree.

**MIS 500B. Project.**

**Prerequisite(s):** Advanced to candidacy. Completion of MBA 244.

**Term Typically Offered:** Fall, Spring

Completion of a project approved for the Master’s degree.

**MIS 500C. Comprehensive Examination.**

**Prerequisite(s):** Advanced to candidacy; for comprehensive examination for MBA only (MGMT 500C, 1 unit), completion of program requirements (ACCY 240, MBA 230, MBA 240, MBA 241, MBA 270, MBA 280; for comprehensive examination for MSBA/MIS Degree, student must be in final semester of program.

**Term Typically Offered:** Fall, Spring

For MSBA/MIS.

## BS in Business Administration (Business Analytics)

**Units required for major:** 66

### Program Description

The Business Analytics concentration prepares students to connect data and models to substantive business problems so that better business decisions can be made. The program focuses on using quantitative approaches to help improve decision making and performance in business. To better understand business situations, students focus on collecting and analyzing data, drawing on computer technology, statistics, applied mathematics, and machine learning techniques. The program covers database, data visualization tools and techniques, statistical modeling, data mining, optimization, simulation, and their applications in business disciplines such as accounting, finance, human resources, insurance, management, and marketing.

### Pre-Requisite Requirements

A student may not enroll in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of "C-" or better in each course and an overall GPA of 2.0 ("C"), with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

### Computer Literacy

All business majors must meet spreadsheet competency prior to taking 100-level business courses. This requires completing MIS 10, Spreadsheet Skills (or equivalent).

### Minimum Grade Requirements

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

### Program Requirements

#### Code | Title | Units
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<table>
<thead>
<tr>
<th><strong>Required Lower Division (pre-requisites) (21 Units)</strong>&lt;sup&gt;1, 2&lt;/sup&gt;</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 2</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Total Units | 21

<sup>1</sup> When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/iimpaction.html for more information.

<sup>2</sup> Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

#### Code | Title | Units
---|---|---

<table>
<thead>
<tr>
<th><strong>Required Upper Division (Major) Core Courses (24 Units)</strong></th>
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</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 101</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>GM 105</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 101</td>
<td>Computer Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 101</td>
<td>Principles Of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OPM 101</td>
<td>Operations Management</td>
<td>3</td>
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</tbody>
</table>

<table>
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<tr>
<th><strong>Business Analytics Concentration (21 Units)</strong></th>
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<thead>
<tr>
<th><strong>Required Courses</strong></th>
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</thead>
<tbody>
<tr>
<td>MIS 183</td>
<td>Business Intelligence Applications</td>
<td>3</td>
</tr>
<tr>
<td>DS 102</td>
<td></td>
<td>3</td>
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<tr>
<td>DS 110</td>
<td>Data Mining for Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>DS 115</td>
<td>Advanced Business Analytics</td>
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</table>

## Electives

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Select three of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>DS 105</td>
<td>Decision Analytics</td>
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<tr>
<td>FIN 136</td>
<td>Modern Portfolio Management</td>
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<td>FIN 160</td>
<td>Student Investment Fund Management</td>
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<tr>
<td>MIS 15</td>
<td>Introduction to Business Programming</td>
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<tr>
<td>MIS 150</td>
<td>Database Systems for Business</td>
<td></td>
</tr>
<tr>
<td>MIS 163</td>
<td>Business Process Engineering and ERP</td>
<td></td>
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<tr>
<td>MIS 171</td>
<td>Enterprise Resource Planning Systems</td>
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<tr>
<td>MKTG 115</td>
<td>Marketing Analytics</td>
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<tr>
<td>MKTG 121</td>
<td>Marketing Research and Information</td>
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<tr>
<td>MKTG 130</td>
<td>Digital Marketing</td>
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<tr>
<td>MKTG 188</td>
<td>Supply Chain Modeling and Analysis</td>
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</table>

Total Units 45

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
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<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
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<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
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<tr>
<td>Area B: Physical Universe and Its Life Forms (10 Units)</td>
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<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
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<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
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<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
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<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area D: The Individual and Society (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area D Course 2</td>
<td>- Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area E Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area F: Ethnic Studies (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area F Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 43

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement 2</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

BS in Business Administration (Management Information Systems)

Units required for Major: 69
Total units required for BS: 120

Program Description

The Management Information Systems concentration provides the analytical framework and the methodology to analyze, design, implement, and manage complex computer-based information/decision systems.

Information is recognized as a resource of the organization and is the common link binding the elements of the organization together. As organizations grow in size and complexity, the need for better and more timely information and for improved decision making techniques becomes critical for effective management.

Note: The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship...
Program Requirements

(ENTR), Finance (FIN), General Management (GM), Human Resources/ Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

Pre-Requisite Requirements

A student may not enroll in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of "C-" or better in each course and an overall GPA of 2.0 ("C"), with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 15</td>
<td>Introduction to Business Programming (for MIS majors only)</td>
<td>3</td>
</tr>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Computer Literacy

All business majors must meet spreadsheet competency prior to taking upper division courses in the major. This requires completing MIS 10 (or equivalent).

Minimum Grade Requirements

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 2</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis ^1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis ^1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics ^1</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics ^1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 21

* Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 101</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>GM 105</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 101</td>
<td>Computer Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 101</td>
<td>Principles Of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OPM 101</td>
<td>Operations Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 24

Management Information Systems (MIS) Concentration (24 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 15</td>
<td>Introduction to Business Programming</td>
<td>3</td>
</tr>
<tr>
<td>MIS 140</td>
<td>Business Data Communication</td>
<td>3</td>
</tr>
<tr>
<td>MIS 150</td>
<td>Database Systems for Business</td>
<td>3</td>
</tr>
<tr>
<td>MIS 160</td>
<td>Systems Development Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>MIS 161</td>
<td>Information Systems Practicum</td>
<td>3</td>
</tr>
<tr>
<td>MIS 170</td>
<td>Information Systems Security</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (6 Units)

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 109</td>
<td>Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>MIS 120</td>
<td>Advanced Object-Oriented Business Programming</td>
<td></td>
</tr>
<tr>
<td>MIS 122</td>
<td>Object-Oriented Programming for Business in Java</td>
<td></td>
</tr>
<tr>
<td>MIS 124</td>
<td>Web Development for Business Applications</td>
<td></td>
</tr>
<tr>
<td>MIS 125</td>
<td>Mobile Business Application Development</td>
<td></td>
</tr>
<tr>
<td>MIS 163</td>
<td>Business Process Engineering and ERP Configuration</td>
<td></td>
</tr>
<tr>
<td>DS 110</td>
<td>Data Mining for Business Analytics</td>
<td></td>
</tr>
<tr>
<td>DS 115</td>
<td>Advanced Business Analytics</td>
<td></td>
</tr>
<tr>
<td>MIS 171</td>
<td>Enterprise Resource Planning Systems</td>
<td></td>
</tr>
<tr>
<td>MIS 181</td>
<td>Machine Learning Applications in Business</td>
<td></td>
</tr>
<tr>
<td>MIS 182</td>
<td>Topics In MIS</td>
<td></td>
</tr>
<tr>
<td>MIS 183</td>
<td>Business Intelligence Applications</td>
<td></td>
</tr>
<tr>
<td>MIS 194</td>
<td>Cooperative Education Experience in Management Information Systems ^1</td>
<td></td>
</tr>
</tbody>
</table>

^1 Course also satisfies General Education (GE)/Graduation Requirement.
Graduation Requirements (required by Sacramento State) (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 162</td>
<td>Project Management</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units** 24

1 Only 3 units of a 12-unit Co-op MIS 194 may count as an elective. A 12-unit Co-op is an approved full-time position in an approved work site. Please see the CBA Student Affairs Office (TAH 2065) for full details.

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area D: The Individual and Society (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area D Course 2</td>
<td>Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area E Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area P: Ethnic Studies (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area F Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units** 43

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-proficiency-requirement.html

**Note:** Students with a declared major of BS in Business Administration (all concentrations) are exempt from the Foreign Language Graduation Requirement.

### MS in Business Analytics

The Master of Science in Business Analytics prepares students to connect data and models to substantive business problems so effective business decisions can be made. The program focuses on using quantitative approaches to help improve decision making and performance in business. To better understand business situations, students focus on collecting and analyzing data, drawing on computer technology, statistics, applied mathematics, and machine learning techniques. The program covers database concepts, data visualization tools and techniques, statistical modeling, data mining, optimization, simulation, and their applications in business disciplines such as accounting, finance, human resources, insurance, management, and marketing.

### Admission Requirements

Four-year bachelor’s degree or equivalent with a minimum GPA of 2.5

- Statement of Purpose
- Résumé
- Two letters of recommendation
- Undergraduate and/or graduate transcripts demonstrating satisfactory quantitative ability with 3.0 GPA and above for all quantitative courses including calculus, linear algebra, probability and statistics.
- GRE or GMAT score - A minimum percentile of 30% for overall, verbal, and quantitative scores is required from those with less than 5 years of significant professional work experience. Test scores are considered valid for 5 years from the test date.
- Foreign language test is required of all applicants who have earned their undergraduate degree from a country where the official language is not English. One of the following tests taken within the past two years are accepted: Official English Proficiency Score Report (Institution Code: 4671), TOEFL - Minimum of 80 iBT, IELTS - Minimum of 7.0 Band Score, PTE Academic Score - 65.

### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Foreign Language Proficiency Requirement</td>
<td>0</td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.
Deadlines
Please see the CBA Web site for current admission deadlines: http://www.cba.csus.edu/graduate/MSBA (http://www.cba.csus.edu/graduate/MSBA/)

Application Procedures
All prospective graduate students must file the following documents with both the CBA Graduate Business Advising Center (GBAC) and the Sacramento State Office of Graduate Studies (River Front Center, 215) as noted below:

1. To the College of Business Administration Graduate Business Advising Center, submit the following:
   1. One (1) set of official transcripts
   2. Results from GMAT or GRE scores
   3. Recommendation Form Waiver
   4. Two (2) Recommendation Forms
   5. Current Resume.
   Mail all of the above documents to the following address:
   Graduate Business Advising Center (GBAC)
   Tahoe Hall, 1037
   College of Business Administration
   CSU, Sacramento
   6000 J Street
   Sacramento, CA 95819-6088
   Phone: (916) 278-6772
   FAX: (916) 278-4233
   Email: cba-gbac@saclink.csus.edu

2. To the Sacramento State Office of Graduate Studies, submit the following:
   1. Online CSU Graduate Application: (https://www2.calstate.edu/apply/graduate (https://www2.calstate.edu/apply/graduate/))
   2. $70 Application Fee (paid on-line when you file your application).
   3. Mail one (1) Set of Official Transcripts to the following address:
      Office of Graduate Studies
      River Front Center, Room 215, MS 6112
      CSU, Sacramento
      6000 J Street
      Sacramento, CA 95819
      Phone: (916) 278-6470
      Website: www.csus.edu/graduate-studies (http://www.csus.edu/graduate-studies/) (Visit How to Apply section for more information)

Please Note: Applications are not considered complete and will not be reviewed unless you complete all the steps as directed. You must submit official transcripts from ALL colleges and universities previously attended. Submission of official transcripts and test scores must be received no later than the application deadline.

International Students
International students will not be issued an F-1 student visa for this program as it is a completely online program. You may apply but you will not be issued a student visa to come to the United States. All materials, inclusive of TOEFL scores, must be turned into the Office of Graduate Studies. To ensure consideration, international students should submit their material to the International Admissions Office one month prior to the above CBA application deadlines.

TOEFL
The University requires a minimum TOEFL score of 550 (paper based), 80 (internet based), or 213 (computer based).

To understand the guidelines for your country please go to http://www.csus.edu/gradstudies/futurestudents/applicantswithforeigndocuments/index.html (http://www.csus.edu/gradstudies/futurestudents/applicantswithforeigndocuments/). Click on your country for detailed information.

California State University, Sacramento interprets "where English was the principal language of instruction" to mean that a school is located in a country where English is the native language (the daily medium of communication of the majority of the residents is English), and that the student received academic instruction in all subjects (except foreign language courses) at all levels of education in English.

Minimum Units and Grade Requirements for the Degree
Total units required for MS/MSBA: 30 (excluding foundation courses) Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is "C." No more than two (2) courses with a grade of "C" will be counted for satisfaction of graduate program requirements.

Advancement to Candidacy
A student’s program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the Graduate Business Advising Center (GBAC) for advancement to candidacy for the Master’s degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (GWAR) cannot advance to candidacy.

Program Requirements
The program consists of ten 3-unit courses. These courses are carefully chosen based on curriculum requirements for an excellent business analytics program, market demand, and available faculty expertise.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSBA 201</td>
<td>Programming for Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MSBA 202</td>
<td>Data Management for Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MSBA 203</td>
<td>Data Visualization and Communication for Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MSBA 204</td>
<td>Operations Analytics and Decision Models</td>
<td>3</td>
</tr>
</tbody>
</table>
Management and Organization

College of Business

Program Description
The College of Business (COB) offers a broad professional education in Business. The Bachelor of Science program offers students a choice of 9 concentrations by which they may focus their goals. Additionally, the COB’s Business Honors program provides an alternative path to its most capable students to prepare them for management opportunities. All students must choose a concentration to complete their requirements for the baccalaureate degree. Students who are uncertain about which concentration to choose are encouraged to select the General Management concentration, as it is the most comprehensive. The structure of the General Management concentration also provides an overlap with the other concentrations, thus making changes in focus possible. Students who wish a more customized program may elect to complete the requirements for additional concentrations as well. For example, students may elect dual concentrations such as General Management and Management of Human Resources and Organizational Behavior. For information about program options, please visit our website at: Undergraduate Programs | Sacramento State (csus.edu) (https://www.csus.edu/college/business-administration/undergraduate/).

The College also offers Minors in Business Administration, Management of Human Resources and Organizational Behavior, Marketing, Real Estate and Land Use Affairs, and Risk Management and Insurance. A Minor in Business Administration is valuable to the student majoring in another area who wishes to supplement his/her knowledge with a business background.

Degree Programs
BS in Business Administration (Management of Human Resources & Organizational Behavior) (p. 421)

Minor in Management of Human Resources & Organizational Behavior (p. 423)

Career Possibilities
Business Consultant · Business Executive · Career Development Specialist · Human Resources Manager · Industrial Relations Manager · Labor Negotiator · Management Analyst · Management and Business Consultant · Organization Development Consultant · Personnel Analyst · Personnel Development Specialist · Recruitment Manager · Small Business Owner · Training Specialist · Work Design Analyst

Contact Information
Office of the Dean
Tahoe Hall 1010
Email: cob@csus.edu
Phone: (916) 278-6578
College of Business Website (https://www.csus.edu/college/business-administration/)
Jean-Francois Coget, Dean
Mylah Nurse, Executive Assistant to the Dean
Cyndy LaFitte, Budget Analyst
Douglas, Evans, Marketing Specialist
Ale Reiher, Administrative Coordinator
Tim Richter, Director of Development

Office of the Associate Dean for Faculty Support
Tahoe Hall 2130
(916) 278-5577
Jaydeep Balakrishnan, Associate Dean
Angela Park-Girouard, Administrative Analyst
Jeannie Hansen, Faculty Personnel Analyst

Office of the Associate Dean for Academic Programs
Tahoe Hall 2028
(916) 278-6463
Andrey Mikhailitchenko, Associate Dean
Barbara (Mei Po) Vong, Administrative Analyst
Maryam Sabet, Academic Programs Coordinator & Enrolment Specialist

Office of Student Engagement
Tahoe Hall 1030
(916) 278-BIZZ (2499)
Bonnie McDonald Beevers, Director
Sanitta Coey, Administrative Coordinator
Maggie Hansen, Program Coordinator

Undergraduate Business Advising Center
Tahoe Hall 1030
(916) 278-BIZZ (2499)
Website: https://www.csus.edu/college/business-administration/undergraduate/ (https://www.csus.edu/college/business-administration/undergraduate/)
Email: cba-ugrad@csus.edu

Graduate Programs Office
(EPP / MPS / Grad Career Svs.)
Tahoe Hall 1020
Oliver Liu, Interim Director of Graduate Programs
Executive & Professional Programs (EPP)

(916) 278-5767
Email: cba-grad@csus.edu
Claire Goldsby, Graduate Programs Coordinator
Maryanne Rupert, Administrative Coordinator
Serena Hoffman, EPP Advisor

MBA Program Services (MPS)
(916) 278-3354
Contact the MBA Program Services (https://www.csus.edu/college/business-administration/graduate/mba.html)

Sophie Mills, Graduate Recruitment & Admissions Coordinator
Jeanie Williams, Graduate Coordinator & MBA Advisor

Business Graduate Career Services

 Tahoe Hall 2065
 (916) 278-7142
 Brent Bynum, Director

HROB 101. The Management of Contemporary Organizations.  3 Units
Term Typically Offered: Fall, Spring

Overview of managerial and organizational theory and practice, including a discussion of the contingencies that influence an organization's effectiveness and efficiency. Focus is on the decision making and problem-solving processes that affect managerial performance in planning, implementing, and controlling the work of contemporary organizations.

HROB 151. Management of Human Resources.  3 Units
Prerequisite(s): BSBA major (any concentration), Real Est and Land Use minor, HROB minor, or Public Health major
Term Typically Offered: Fall, Spring

Seminar covering contemporary processes and practices pertaining to the organization and management of personnel including employee selection, development, motivation, evaluation and remuneration, and union relations. Emphasis on the management of human resources in task oriented organizations. Instructional method provides for case method, laboratory exercises, and small group discussion.

HROB 152. Management Skills Seminar.  3 Units
Prerequisite(s): HROB 101; HROB 151 recommended.
Term Typically Offered: Fall, Spring

Development of management awareness of the dynamics of organizational behavior. Emphasis on case discussions, small group action and role playing for the acquisition of knowledge and skills for effective managing and changing in an organization.

HROB 153. Employment Law.  3 Units
Term Typically Offered: Fall, Spring

Provides students with an overview of the employment laws that impact and influence the workplace including laws regarding employment discrimination, disability discrimination and accommodation, employment leaves of absence, workplace harassment, employment torts and contracts, wage/hour regulations, employee privacy, intellectual property in the employment setting, and other emerging issues in employment law and personnel management. The impact of law on the management of human resources will be the focus of this class.

HROB 154. Strategic Human Resources Management.  3 Units
Prerequisite(s): HROB 151, HROB 152, HROB 153.
Term Typically Offered: Fall, Spring

The objective of this capstone course is to identify contemporary strategies to improve individual and organizational performance. Utilizes a strategic human resource management perspective and incorporates Human Resource Management and Organizational Behavior theories for practical implementation in organizations. Links such concepts as compensation, performance management, law, conflict management, communication, diversity, ethics, and managerial skill building towards preparing for the future of managing individuals in organizations.

HROB 155. Conflict Management and Negotiation.  3 Units
Term Typically Offered: Fall, Spring

Analyzes conflict in organizations, and strategies and processes for effective settlement or resolution of that conflict. Emphasis on the practical aspects of institutional and extra-institutional processes outside the conventional legal system. These dispute resolution methods include negotiation, mediation, arbitration and fair hearing. Students participate in a variety of exercises including simulated negotiations. Through these exercises students explore the basic theoretical models of bargaining and test and improve individual negotiation skills. Class format includes lecture, class discussion, simulation/role-play, expert guests and video demonstrations.

HROB 156. Current Trends and Emerging Issues.  3 Units
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of current trends and emerging issues in human resources management and/or organizational behavior. Provides students the opportunity to better understand the latest people-related challenges organizations face. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 157. Labor Relations.  3 Units
Term Typically Offered: Fall, Spring

Employer-employee relations in historical and contemporary contexts, with emphasis on the development of labor and management institutions and philosophies, public policies, collective bargaining, and contract administration in the private and public sectors.

HROB 158. Special Topics in Human Resource Management.  3 Units
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of a current human resource management topic(s), from both a theoretical and practitioner perspective. Possible topics include, but are not limited to, outsourcing and staffing trends, merit-based performance and compensation plans, technology-based recruiting and selection practices, and innovations in training and career development. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.
HROB 159.  Special Topics in Organizational Behavior.  3 Units
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of a current organizational behavior topic(s), from both a theoretical and practitioner perspective. Topics include, but are not limited to, family-work relations, stress and burnout, workplace aggression, leadership and motivation, organizational politics and culture, attitudes and change, and organizational learning. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 194.  Cooperative Education Experiences in Human Resources Management.  6 - 12 Units
Prerequisite(s): HROB 151 and a minimum overall GPA of 2.5.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in human resources management. This supervised work experience allows the student to become familiar with the practice of human resources management in businesses or governmental agencies.

Note: Open to all upper division students subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

HROB 195.  Internship in Human Resources Management.  3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Note: Open to declared business administration majors only.

HROB 199.  Special Problems in Human Resources Management.  1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

MGMT 10.  Introduction to Business Law.  3 Units
Term Typically Offered: Fall, Spring

Study of business law for the future business professional. Introduces students to basic business problems that have legal consequences. Encourages the identification of ethical concerns along with the ability to anticipate potential legal problems with the goal of preventing them. Covers introduction to the legal system; court procedures; contracts and sales; business organizations; real and personal property; labor and employment law; product liability, and the government regulation of business.

Provides an overview of the various basic functions of business and how they interface. Topics will include accounting, finance, marketing, human resources management, management information systems, operations management, real estate, and international business.

MGMT 21.  First Year Seminar: Becoming an Educated Person.  3 Units
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

MGMT 101.  Legal Environment of Business.  3 Units
Prerequisite(s): Must be a Business pre-major, Business major (any concentration), a business minor, a Construction Mgmt major, a Mech Engr Tech major, or a Music (Music Mgmt) major to enroll in this course.
Term Typically Offered: Fall, Spring

Study of business law for the business professional. Aside from investigating substantive law, the course stresses critical thinking and analytical evaluation of contemporary business problems. Encourages the identification of ethical concerns along with the ability to anticipate potential legal problems with the goal of preventing them. Covers introduction to the legal system; court procedures; contracts and sales; business organizations; real and personal property; labor and employment law; product liability, and the government regulation of business. OBE 16 or the equivalent is recommended.

MGMT 102.  Business Communications.  3 Units
Prerequisite(s): Completion of Area A in General Education and ENGL 20. Recommend COMS 2 and COMS 4.
Term Typically Offered: Fall, Spring

Provides basic concepts for understanding and practice of communication in the changing world of business for managers and professionals. It examines the use of language and conversations in business settings and their role in coordinating actions, resolving breakdowns in work performance, and providing customer satisfaction. Topics include: Practice in professional styles of business writing and formats, preparation of a formal report, development of competence in business conversation skills (written, electronic, and oral), and other selected topics. International, technical, and linguistic developments are integrated into the various applications of business communication.
Program with a grade of "C-" or better in each course and an overall GPA of 2.0 ("C"), with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

### Computer Literacy

All business majors must meet spreadsheet competency prior to taking upper division courses in the major. This requires completing MIS 10 (or equivalent).

### Minimum Grade Requirements

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ACY 2</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>1</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td>1</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Required Lower Division (Pre-Requisites) Courses (21 Units)

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<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Total Units

21

1 Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/impaction.html for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 101</td>
<td>Business Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

### Pre-Requisite Requirements

A student may not enroll in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of "C-" or better in each course and an overall GPA.
### General Education Requirements

#### Area A: Basic Subjects (9 Units)
- **A1** - Oral Communication 3
- **A2** - Written Communication 3
- **A3** - Critical Thinking 3

#### Area B: Physical Universe and Its Life Forms (10 Units)
- **B1** - Physical Science 3
- **B2** - Life Forms 3
- **B3** - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) 1
- **B4** - Math Concepts 2 0
- **B5** - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. 3

#### Area C: Arts and Humanities (12 Units)
- **C1** - Arts 3

### Graduation Requirements

#### Graduation Requirements (required by CSU) (6-9 Units)
- **American Institutions: U.S. History** 3
- **American Institutions: U.S. Constitution & CA Government** 3
- **Writing Intensive (WI)** 2 0

#### Graduation Requirements (required by Sacramento State) (6 Units)
- **English Composition II** 3
- **Race and Ethnicity in American Society (RE)** 3
- **Foreign Language Proficiency Requirement** 3 0

---

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2 Required in Major; also satisfies GE.

3 Department offers students a “select from the following” option:
   - If student chooses to take MGMT 117, they will meet the Writing Intensive (WI) graduation requirement.

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### Management of Human Resources and Organizational Behavior (HROB) Concentration (18 units)

#### Required Courses (12 Units)
- **HROB 151** - Management of Human Resources 3
- **HROB 152** - Management Skills Seminar 3
- **HROB 153** - Employment Law 3
- **HROB 154** - Strategic Human Resources Management 3

#### Electives (6 Units)
Select two of the following: 6
- **HROB 155** - Conflict Management and Negotiation
- **HROB 156** - Current Trends and Emerging Issues
- **HROB 157** - Labor Relations
- **HROB 158** - Special Topics in Human Resource Management
- **HROB 159** - Special Topics in Organizational Behavior
- **MGMT 117** - Business, Ethics and Society 2

### Management of Human Resources and Organizational Behavior (HROB) Concentration (18 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM 105</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 101</td>
<td>Computer Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 101</td>
<td>Principles Of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OPM 101</td>
<td>Operations Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units** 24

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2 Course also satisfies General Education (GE)/Graduation Requirement.

**Note:** With faculty advisor approval, students may also elect to take one of the following:

- **ECON 150** - Labor Economics 3
- **FIN 140** - Employee Benefits 3
- **MKTG 160** - Principles of Quality Management 3
- **PSYC 169** - Industrial Psychology 3

---

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

3 Department offers students a “select from the following” option:
   - If student chooses to take MGMT 117, they will meet upper division Area D.
Minor in Management of Human Resources & Organizational Behavior

Units required for the Minor: 18, of which at least 9 upper division units must be taken in residence.

Program Description

The minor in Human Resources Management is designed to provide students majoring in other fields with the opportunity to broaden their capabilities to enter their chosen fields and/or enhance their career paths at some later time.

Program Requirements

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
<tr>
<td>HROB 151</td>
<td>Management of Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>HROB 152</td>
<td>Management Skills Seminar</td>
<td>3</td>
</tr>
<tr>
<td>HROB 153</td>
<td>Employment Law</td>
<td>3</td>
</tr>
<tr>
<td>HROB 154</td>
<td>Strategic Human Resources Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HROB 155</td>
<td>Conflict Management and Negotiation</td>
<td>3</td>
</tr>
<tr>
<td>HROB 156</td>
<td>Current Trends and Emerging Issues</td>
<td></td>
</tr>
<tr>
<td>HROB 157</td>
<td>Labor Relations</td>
<td></td>
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<td>HROB 158</td>
<td>Special Topics in Human Resource Management</td>
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<td>HROB 159</td>
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<td></td>
</tr>
<tr>
<td>MGMT 117</td>
<td>Business, Ethics and Society</td>
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</tr>
</tbody>
</table>

Total Units: 18

Marketing and Supply Chain Management

College of Business

Program Description

The College of Business (COB) offers a broad professional education in Business. The Bachelor of Science program offers students a choice of 9 concentrations by which they may focus their goals. Additionally, the COB’s Business Honors program provides an alternative path to its most capable students to prepare them for management opportunities. All students must choose a concentration to complete their requirements for the baccalaureate degree. Students who are uncertain about which concentration to choose are encouraged to select the General Management concentration, as it is the most comprehensive. The structure of the General Management concentration also provides an overlap with the other concentrations, thus making changes in focus possible. Students who wish a more customized program may elect to complete the requirements for additional concentrations as well. For example, students may elect dual concentrations such as General Management and Management of Human Resources and Organizational Behavior. For information about program options, please visit our website at: Undergraduate Programs | Sacramento State (csus.edu) (https://www.csus.edu/college/business-administration/undergraduate/).

The College also offers Minors in Business Administration, Management of Human Resources and Organizational Behavior, Marketing, Real Estate and Land Use Affairs, and Risk Management and Insurance. A Minor in Business Administration is valuable to the student majoring in another area who wishes to supplement his/her knowledge with a business background.

Degree Programs

BS in Business Administration (Marketing) (p. 426)
BS in Business Administration (Supply Chain Management) (p. 428)
Minor in Marketing (p. 430)

Career Possibilities

Advertising Analyst · Advertising Executive · Brand Manager · Customer Relations Manager · Consultant · Direct Marketing Manager · E-commerce Analyst · Facility Planner · Logistics Manager · Manufacturers Representative · Marketing Analyst · Market Research Analyst · Marketing Manager · Material Planner · Merchandising Manager · Operations Analyst Operations Manager · Process Management Analyst · Production Control Manager · Product Manager · Production Manager · Production Planner/Scheduler Production Planner/Scheduler · Productivity Analyst · Project Manager Public Opinion Specialist · Public Relations Specialist · Purchasing Agent · Quality Control Manager · Research/Development Director · Retail Sales Representative · Retail Store Manager · Safety Manager · Sales Manager · Sales Representative · Service Manager · Social Marketing Specialist · Sports Promotion Director · Supply Chain Manager · Systems Analyst · Systems Manager · Warehouse Manager

Contact Information

Office of the Dean

Tahoe Hall 1010
Email: cob@csus.edu
Phone: (916) 278-6578
College of Business Website (https://www.csus.edu/college/business-administration/)
Jean-Francois Coget, Dean
Mylah Nurse, Executive Assistant to the Dean
Cyndy LaFitte, Budget Analyst
Douglas, Evans, Marketing Specialist
Ale Reiher, Administrative Coordinator
Tim Richter, Director of Development

Office of the Associate Dean for Faculty Support

Tahoe Hall 2130
(916) 278-5577
Jaydeep Balakrishnan, Associate Dean
Angela Park-Girouard, Administrative Analyst
Jeannie Hansen, Faculty Personnel Analyst

Office of the Associate Dean for Academic Programs

Full PDF2023-2024 423
MKTG 101. Principles Of Marketing. 3 Units
Prerequisite(s): You must be a Business major (any concentration), a business minor or in one of the following majors: Coms/Pub Relations, CM, MET, FACS (Apparel Mktg/Design), FACS (Cons Sci), FASH, GPHD, INTD (Mktg), Rec & Park Mgmt, Photography to enroll in this course.
Term Typically Offered: Fall, Spring

The purpose of this course is to help students develop a working knowledge of marketing. Students will learn about the role marketing plays in an organization, as well as how to plan, implement and evaluate marketing activities. This course builds a foundation for further study in marketing and related fields.

MKTG 115. Marketing Analytics. 3 Units
Prerequisite(s): MKTG 101; and either DS 101 or MKTG 121; or instructor permission
Term Typically Offered: Fall, Spring

The course covers current developments in marketing analytics. Topics include methodologies for market forecasting, estimating market size, and demand; evaluating marketing ROI and customer life time value; modeling of segmentation, positioning, competitive analysis, conjoint analysis, distribution channel analytics, and sales analytics. Students will also learn the latest datamining tools to collect, analyze, and visualize data for decision making and communicating to senior executives.

MKTG 121. Marketing Research and Information. 3 Units
Prerequisite(s): MKTG 101.
Corequisite(s): DS 101
Term Typically Offered: Fall, Spring

Examines the acquisition of information for marketing management decision making, including methods of collection and analysis applicable to secondary and primary data, as this process relates to the management information system. Seminar.

MKTG 122. Buyer Behavior. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Understanding buying as a process in order to develop more effective solutions to marketing problems; an interdisciplinary approach drawing on insights from the behavioral sciences; applications to practical marketing situations. Seminar.

MKTG 123. Public Relations and Ethics in Business. 3 Units
Term Typically Offered: Fall, Spring

Managerial function of evaluating public attitudes toward business firms and other organizations and institutions, and of adjusting policies and executing programs to earn public acceptance and support. Media and method of communicating with the various publics, and problems in responsible leadership.

MKTG 124. Retail Management. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Development, trends, and institutions of retailing; organization and management of retail establishments; principles and policies of retail store operations including location and layout, planning and control of budgets, personnel, pricing and customer services.

MKTG 125. Advertising. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Examination of advertising as a marketing communications tool in profit and nonprofit organizations. Emphasis will be placed on creative methods, alternative media, measurements of effectiveness, and coordination with other aspects of the marketing program through class discussion and written projects. Seminar.
MKTG 126. Salesmanship. 3 Units
Term Typically Offered: Fall, Spring
Principles of the sales process including prospecting, structuring a sales presentation, handling objections, closing and customer relationship management. Application of sales techniques in product and service situations, integration of technology as a sales tool. Includes lectures, role playing, and practice in sales presentations.

MKTG 127. Sales Management. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring
Individual problems of manufacturer or wholesaler in merchandising; intensive development of the "selling" function of marketing; duties of the sales manager.

MKTG 129. Marketing Management. 3 Units
Prerequisite(s): MKTG 101 and senior status.
Term Typically Offered: Fall, Spring
Application of marketing principles to the solution of a wide variety of problems and cases including target markets, product selection, channels of distribution, promotion and pricing.
Note: It is a capstone course. It is recommended that students take MKTG 121 and MKTG 122 prior to taking MKTG 129. Seminar.

MKTG 130. Digital Marketing. 3 Units
Prerequisite(s): MKTG 101 and Business majors or Marketing minors only.
Term Typically Offered: Fall, Spring
The purpose of this course is to help students learn and apply emerging marketing techniques to become efficient and effective marketers in the 21st century. Topics covered center on effective marketing in an online environment to help students refine their strategic marketing skills, ability to work effectively in diverse teams, and understanding of the local marketing environment.

MKTG 140. Sports Marketing. 3 Units
Prerequisite(s): MKTG 101
Term Typically Offered: Fall, Spring
The purpose of this course is to help students to integrate principles of marketing and sports industry management. It examines the marketing of sports, teams, athletes, sport arenas, as well as the use of sports related marketing tools (such as sponsorships, celebrity athlete endorsements, promotional licensing) for promoting non-sport consumer and industrial products.

MKTG 160. Principles of Quality Management. 3 Units
Term Typically Offered: Fall, Spring
Study of the major principles of quality management: customer focus, continuous improvement, employee involvement, and process improvement. Use of case studies and a project to gain knowledge in implementing quality management principles. Seminar.

MKTG 181. Supply Chain Logistics Management. 3 Units
Prerequisite(s): OPM 101.
Term Typically Offered: Fall, Spring
Delivery of enhanced customer and economic value through synchronized management of the flow of physical goods and associated information from sourcing through consumption. Examines the management of those activities that facilitate the movement, control and direction of goods and services to create time, place, form and ownership utilities in the global market. Topics include transportation, warehousing, information systems, sourcing, strategic alliances, modeling, purchasing and international operations.

MKTG 186. Advanced Operations Planning and Control. 3 Units
Prerequisite(s): OPM 101.
Term Typically Offered: Fall, Spring
Focuses on effective operations strategies for companies that operate in a dynamic business environment, with an emphasis on in-depth treatments of the decision situations facing managers in charge of related to the planning and control of the flow of goods and services in supply chain systems.

MKTG 188. Supply Chain Modeling and Analysis. 3 Units
Prerequisite(s): OPM 101.
Term Typically Offered: Fall, Spring
Covers modeling and analytics for designing, managing and improving supply chain systems in order to achieve competitive advantages: cost, quality, service, flexibility, adaptability, and sustainability which support business level strategies of cost leadership and differentiation.

MKTG 190. Multinational Marketing. 3 Units
Prerequisite(s): MKTG 101 or instructor permission.
Term Typically Offered: Fall, Spring, Summer
Environmental factors affecting international trade, such as culture and business customs, political factors and constraints, economic development and legal differences, are integrated with the marketing management functions of market potential, analysis marketing research, international organization, channels and distribution, sales promotion, prices, credit, and financing.

MKTG 195. Internship in Marketing. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring
Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Marketing Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only.
Credit/No Credit

MKTG 199. Special Problems in Marketing. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Credit/No Credit
Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

**Pre-Requisite Requirements**

A student may not enroll in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of "C-" or better in each course and an overall GPA of 2.0 ("C"), with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

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<tr>
<td>MIS 15</td>
<td>Introduction to Business Programming (for MIS majors only)</td>
<td>3</td>
</tr>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Computer Literacy**

All business majors must meet spreadsheet competency prior to taking upper division courses in the major. This requires completing MIS 10 or equivalent.

**Minimum Grade Requirements**

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 2</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 21
Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file a supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/impaction.html for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

### Required Upper Division (Major) Core Courses (24 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 101</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>GM 105</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 101</td>
<td>Computer Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 101</td>
<td>Principles Of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OPM 101</td>
<td>Operations Management</td>
<td>3</td>
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<td></td>
<td><strong>Total Units</strong></td>
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</table>

### Marketing (MKTG) Concentration (21 units)

#### Marketing Track

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 121</td>
<td>Marketing Research and Information</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 122</td>
<td>Buyer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 129</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Group A Required Courses (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>MKTG 115</td>
<td>Marketing Analytics</td>
<td></td>
</tr>
<tr>
<td>MKTG 123</td>
<td>Public Relations and Ethics in Business</td>
<td></td>
</tr>
<tr>
<td>MKTG 124</td>
<td>Retail Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 125</td>
<td>Advertising</td>
<td></td>
</tr>
<tr>
<td>MKTG 130</td>
<td>Digital Marketing</td>
<td></td>
</tr>
<tr>
<td>MKTG 140</td>
<td>Sports Marketing</td>
<td></td>
</tr>
<tr>
<td>MKTG 181</td>
<td>Supply Chain Logistics Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 190</td>
<td>Multinational Marketing</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Group B Electives (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select three of the following:</td>
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<tr>
<td></td>
<td>MKTG 115 Marketing Analytics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MKTG 123 Public Relations and Ethics in Business</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MKTG 124 Retail Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MKTG 125 Advertising</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MKTG 130 Digital Marketing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MKTG 140 Sports Marketing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MKTG 181 Supply Chain Logistics Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MKTG 190 Multinational Marketing</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Group C Electives (3 Units)</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following or any course not taken from Group B:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUS 162 Project Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENTR 187 Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td></td>
<td>FIN 134 Financial Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IBUS 190 International Business</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MKTG 160 Principles of Quality Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MKTG 199 Special Problems in Marketing</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

### Supply Chain Management Track

<table>
<thead>
<tr>
<th>Group A Required Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 121 Marketing Research and Information</td>
</tr>
<tr>
<td>MKTG 160 Principles of Quality Management</td>
</tr>
<tr>
<td>MKTG 181 Supply Chain Logistics Management</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group B Courses (9 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select three of the following:</td>
</tr>
<tr>
<td>MKTG 129 Marketing Management</td>
</tr>
<tr>
<td>MKTG 186 Advanced Operations Planning and Control</td>
</tr>
<tr>
<td>MKTG 188 Supply Chain Modeling and Analysis</td>
</tr>
<tr>
<td>MKTG 190 Multinational Marketing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group C Electives (3 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following or any course not taken from Group B:</td>
</tr>
<tr>
<td>ACCY 121 Cost Accounting</td>
</tr>
<tr>
<td>ACCY 122 Advanced Management Accounting</td>
</tr>
<tr>
<td>ACCY 190 International Accounting</td>
</tr>
<tr>
<td>DS 115 Advanced Business Analytics</td>
</tr>
<tr>
<td>GM 170 Fundamentals of Business Strategy</td>
</tr>
<tr>
<td>BUS 162 Project Management</td>
</tr>
<tr>
<td>HROB 155 Conflict Management and Negotiation</td>
</tr>
<tr>
<td>IBUS 190 International Business</td>
</tr>
<tr>
<td>MIS 163 Business Process Engineering and ERP Configuration</td>
</tr>
<tr>
<td>MIS 171 Enterprise Resource Planning Systems</td>
</tr>
<tr>
<td>MKTG 115 Marketing Analytics</td>
</tr>
<tr>
<td>MKTG 124 Retail Management</td>
</tr>
<tr>
<td>MKTG 130 Digital Marketing</td>
</tr>
<tr>
<td>MKTG 199A Special Problems in Supply Chain Management</td>
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<tr>
<td><strong>Total Units</strong></td>
</tr>
</tbody>
</table>

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area B: Physical Universe and Its Life Forms (10 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area C: Arts and Humanities (12 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area D: The Individual and Society (6 Units)</strong></td>
<td></td>
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<tr>
<td>Area D Course</td>
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<td>3</td>
</tr>
</tbody>
</table>
Area D Course 2
Area D Course - Take upper-division course to complete Area & upper
division requirements.

Area E: Understanding Personal Development (3 Units)
Area E Course

Area F: Ethnic Studies (3 Units)
Area F Course

Total Units 43

1 To help you complete your degree in a timely manner and not take
more units than absolutely necessary, there are ways to use single
courses to meet more than one requirement (overlap). For further
information, please visit the General Education page (p. 1103).
Note: There is no way to list all possible overlaps so please consult
with a professional advisor. The Academic Advising Center can be
visited online (http://www.csus.edu/acad/), by phone (916) 278-1000,
or email (advising@csus.edu).
2 Required in Major; also satisfies GE.

Graduation Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Graduation Requirements (required by Sacramento State) (6 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Proficiency Requirement 2</td>
<td>0</td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take
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visited online (http://www.csus.edu/acad/), by phone (916) 278-1000,
or email (advising@csus.edu).
2 Required in Major; also satisfies GE.

BS in Business Administration
(Supply Chain Management)

Units required for Major: 66
Total units required for BS: 120

Program Description
The Supply Chain Management (SCM) Concentration is concerned
with organizations, methods, and processes employed in managing
and improving supply chain and operations systems which provide
goods or services to fulfill customer needs and wants in both local and
global markets in a flexible, adaptable, quality, reliable, cost effective,
environmentally sustainable, ethically sound and socially responsible
manner. Students who select the SCM Concentration are provided with
a well-balanced program of qualitative and quantitative subject matter
and should be able to assume first-line staff or management positions
in supply chain and operations systems for manufacturing, service, or
government organizations.

Note: The use of the words “business administration” throughout this
section refers to courses designated as Accountancy (ACCY), Accounting
Information Systems (AIS), Decision Sciences (DS), Entrepreneurship
(ENTR), Finance (FIN), General Management (GM), Human Resources/
Organizational Behavior (HROB), International Business (IBUS),
Management (MGMT), Management Information Science (MIS),
Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business
Administration (all concentrations) will not be subject to the University's
Foreign Language Graduation Requirement. Students who change
major may be subject to the University's Foreign Language Graduation
Requirement.

Note: At least 15 units of upper division business administration courses
must be taken in residence at (or under the auspices of) California State
University, Sacramento. Of these 15 units, a minimum of nine units must
be in upper division courses in the concentration.

Pre-Requisite Requirements
A student may not enroll in any of the Major program or Concentration
courses until he/she has completed the Pre-Requisite lower division
program with a grade of "C-" or better in each course and an overall GPA
of 2.0 ("C"), with the exception of MATH 24 which requires a minimum
acceptable grade of "C" or better.

Students enrolled as Expressed Interest in Business may enroll in the
following courses after completing the lower division pre-requisite
requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Computer Literacy
All business majors must meet spreadsheet competency prior to taking
upper division. This requires completing MIS 10 (or equivalent).

Minimum Grade Requirement
The purpose of this requirement is to assure that all business
administration students attain the minimum level of competency in all
their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required
for the business administration degree is "C-" with the exception of MATH
24 which requires a minimum acceptable grade of "C" or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-
Requisite courses, Major Core courses, and the Concentration courses
presented for the degree.
# Program Requirements

## Required Lower Division (Pre-Requisites) Courses (21 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 2</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
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<td>ECON 1A</td>
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<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 21

1. Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit [www.csus.edu/cba/ubac/iimpaction.html](http://www.csus.edu/cba/ubac/iimpaction.html) for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

## Required Upper Division (Major) Core Courses (24 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 101</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>GM 105</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 101</td>
<td>Computer Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 101</td>
<td>Principles Of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OPM 101</td>
<td>Operations Management</td>
<td>3</td>
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</tbody>
</table>

Total Units: 24

## Supply Chain Management (SCM) Concentration (21 units)

### Group A Required Courses (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 121</td>
<td>Marketing Research and Information</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 160</td>
<td>Principles of Quality Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 181</td>
<td>Supply Chain Logistics Management</td>
<td>3</td>
</tr>
</tbody>
</table>

### Group B Courses (9 Units)

Select three of the following:

- MKTG 129 | Marketing Management
- MKTG 186 | Advanced Operations Planning and Control
- MKTG 188 | Supply Chain Modeling and Analysis
- MKTG 190 | Multinational Marketing

### Group C Electives (3 Units)

Select one of the following or any course not taken from Group B:

- ACCY 121 | Cost Accounting
- ACCY 122 | Advanced Management Accounting
- ACCY 190 | International Accounting

Total Units: 21

## General Education Requirements \(^1\)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM 170</td>
<td>Fundamentals of Business Strategy</td>
<td></td>
</tr>
<tr>
<td>BUS 162</td>
<td>Project Management</td>
<td></td>
</tr>
<tr>
<td>HROB 155</td>
<td>Conflict Management and Negotiation</td>
<td></td>
</tr>
<tr>
<td>IBUS 190</td>
<td>International Business</td>
<td></td>
</tr>
<tr>
<td>MIS 132</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIS 163</td>
<td>Business Process Engineering and ERP</td>
<td></td>
</tr>
<tr>
<td>MIS 171</td>
<td>Enterprise Resource Planning Systems</td>
<td></td>
</tr>
<tr>
<td>MKTG 115</td>
<td>Marketing Analytics</td>
<td></td>
</tr>
<tr>
<td>MKTG 124</td>
<td>Retail Management</td>
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</tr>
<tr>
<td>MKTG 130</td>
<td>Digital Marketing</td>
<td></td>
</tr>
<tr>
<td>MKTG 199A</td>
<td>Special Problems in Supply Chain Management</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 21

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

| Area A: Basic Subjects (9 Units)                             |       |
| B1    | Physical Science                              | 3     |
| B2    | Life Forms                                    | 3     |
| B3    | Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) | 1     |
| B4    | Math Concepts \(^2\)                          | 0     |
| B5    | Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. | 3     |

| Area A: Basic Subjects (9 Units)                             |       |
| C1    | Arts                                          | 3     |
| C2    | Humanities                                    | 3     |
| C1/C2 | Area C Course                                | 3     |

| Area A: Basic Subjects (9 Units)                             |       |
| D1    | The Individual and Society                    | 3     |
| D2    | Life Forms                                    | 3     |
| D3    | Arts                                          | 3     |

| Area A: Basic Subjects (9 Units)                             |       |
| E1    | Understanding Personal Development            | 3     |
| E2    | Area E Course                                 | 3     |

| Area A: Basic Subjects (9 Units)                             |       |
| F1    | Ethnic Studies                                | 3     |

Total Units: 43
1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

### Graduation Requirements

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Note: Students with a declared major of BS in Business Administration (all concentrations) are exempt from the Foreign Language Graduation Requirement.

### Strategy and Entrepreneurship

#### College of Business

#### Program Description

The College of Business (COB) offers a broad professional education in Business. The Bachelor of Science program offers students a choice of 9 concentrations by which they may focus their goals. Additionally, the COB’s Business Honors program provides an alternative path to its most capable students to prepare them for management opportunities. All students must choose a concentration to complete their requirements for the baccalaureate degree. Students who are uncertain about which concentration to choose are encouraged to select the General Management concentration, as it is the most comprehensive. The structure of the General Management concentration also provides an overlap with the other concentrations, thus making changes in focus possible. Students who wish a more customized program may elect to complete the requirements for additional concentrations as well. For example, students may elect dual concentrations such as General Management and Management of Human Resources and Organizational Behavior. For information about program options, please visit our website at: Undergraduate Programs | Sacramento State (csus.edu) (https://www.csus.edu/college/business-administration/undergraduate/).

The College also offers Minors in Business, Management of Human Resources and Organizational Behavior, Marketing, Real Estate and Land Use Affairs, and Risk Management and Insurance. A Minor in Business is valuable to the student majoring in another area who wishes to supplement his/her knowledge with a business background.

### Degree Programs

- B (p. 426) in Business (Entrepreneurship) (p. 432)
- BS in Business (General Management) (p. 434)
- BS in Business (International Business) (p. 436)
- MBA (Entrepreneurship and Global Business) (p. 439)

### Career Possibilities

- Business Development Manager
- Family Business Owner/Manager
- Financial Services Advisor
- Franchised Business Owner/Manager
- Insurance Agency Owner/Manager
- Management Analyst
- Management Consultant
- New Venture Founder/Manager
- Non-Profit Organization

### Minor in Marketing

Units required for the Minor: 15, of which at least nine upper division units must be taken in residence.

#### Program Description

The minor in Marketing is designed for students that are interested in learning how marketing concepts are applied in profit and nonprofit organizations and government agencies. Majors in Communication Studies, Recreation and Leisure Studies, Liberal Arts, Graphic Design and Fashion Merchandising may find the minor in Marketing is helpful in achieving their career objectives.

#### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 115</td>
<td>Marketing Analytics</td>
<td></td>
</tr>
<tr>
<td>MKTG 121</td>
<td>Marketing Research and Information</td>
<td></td>
</tr>
<tr>
<td>MKTG 122</td>
<td>Buyer Behavior</td>
<td></td>
</tr>
<tr>
<td>MKTG 123</td>
<td>Public Relations and Ethics in Business</td>
<td></td>
</tr>
<tr>
<td>MKTG 124</td>
<td>Retail Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 125</td>
<td>Advertising</td>
<td></td>
</tr>
<tr>
<td>MKTG 126</td>
<td>Salesmanship</td>
<td></td>
</tr>
<tr>
<td>MKTG 127</td>
<td>Sales Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 129</td>
<td>Marketing Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 130</td>
<td>Digital Marketing</td>
<td></td>
</tr>
<tr>
<td>MKTG 190</td>
<td>Multinational Marketing</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 15
ENTR 185. Venture Growth Strategies. 3 Units
Prerequisite(s): Upper-division standing; ENTR 187 or ENTR 189.
Term Typically Offered: Fall, Spring
Focuses on the opportunities and challenges involved in the management of a business venture and its growth opportunities. Growth is the ultimate resource constrainer, stretching all the resources of a company to the limit and often beyond. Develops a venture spanning approach that examines the business venture and the challenges that tasks venture management to the limit. Provides students with a series of frameworks, analytical skills and techniques, heuristics, and decision-making tools that can be used in growing entrepreneurial businesses. Note: Only students with an Entrepreneurship Concentration will be admitted.

ENTR 187. Entrepreneurship. 3 Units
Term Typically Offered: Fall, Spring
Objective is to lead students through all steps necessary in starting a business: analyzing personal and business goals, researching the market, developing a marketing plan, determining land, building, equipment, supplies, inventory, people needed, determining cash flow and pro forma financial statements, and money needed. The output of all this will be a professional business plan and financial package ready to submit to prospective investors.

ENTR 189. Corporate Entrepreneurship. 3 Units
Prerequisite(s): Upper-division standing.
Term Typically Offered: Fall, Spring
Offers a multidisciplinary framework for studying and developing corporate entrepreneurship. Covers the climate and culture of an entrepreneurial organization, strategies for developing new business ventures within an organization, and strategies for transforming firms toward a more entrepreneurially driven organization. As a result, students will increase their understanding of environment, processes and strategies that will create value and build competence through entrepreneurial activities within organizations.

GM 105. Strategic Management. 3 Units
Prerequisite(s): Completion of all other upper-division core courses, except MIS 101.
Term Typically Offered: Fall, Spring, Summer
This capstone course focuses on the integration of functional areas of a business and requires students to determine strategies/policies at the general-management level. Students address problems and issues faced by companies from a general management perspective which integrates accounting, financial, marketing, human resources, and operations in relation to the environment within a framework of balance between profit or cost-effectiveness and social responsibility.
GM 170. Fundamentals of Business Strategy. 3 Units
Prerequisite(s): HROB 101, MKTG 101, FIN 101, and OPM 101.
Term Typically Offered: Fall, Spring
Basics of business-level strategy and how they are applied in modern organizations. Underlying primary principles, theories and practices are examined and discussed. Cases presenting actual, real-world situations will be analyzed to derive solutions to the business-level opportunities and problems facing strategic managers.
Note: General Management students must complete all functional core courses before taking GM 170.

GM 194. Cooperative Education Experience in Management. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.5.
Term Typically Offered: Fall, Spring
In-depth supervised work experience in management for the purpose of exposing the student to comprehensive management experience in business, governmental, or service agencies.
Note: Open to all upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

GM 195. Internship in Strategic Management. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring
Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

GM 199. Special Problems in Strategic Management. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

IBUS 180. Sustainability Business in Global Economy. 3 Units
Term Typically Offered: Fall, Spring
Introduces students to the emerging field of sustainability in business and the growing focus on the social, environmental, and economic performance of businesses in global economy. The course presents scientific, moral, and business cases for adopting sustainability.

IBUS 190. International Business. 3 Units
Term Typically Offered: Fall, Spring, Summer
Analyzes international business: foreign markets; export-import trade; licensing agreements; foreign exchange problems; role of the multinational firm; intergovernmental trade agreements; balance of payments; decision making in foreign environments.

IBUS 195. Internship in International Business. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring
Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Management Area. Open to declared business administration majors only. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

IBUS 199. Special Problems in International Business. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Center, Tahoe 1030.

Credit/No Credit

BS in Business Administration (Entrepreneurship)

Units required for Major: 63
Total units required for BS: 120

Program Description

The Entrepreneurship concentration is designed to meet the CBA Mission: "offering a quality business education that is responsive to the changing regional, global, and technology-driven environment" of the Sacramento region. It is to provide a solid understanding of entrepreneurial skills, principles, and strategies that build and maintain an effective organization. The curriculum is designed for students to develop entrepreneurial skills, principles, and strategies that build and maintain an effective organization. The courses of area emphasis are provided to develop the students' breadth and functional orientation to focus their entrepreneurial skills.

Note: The use of the words "business administration" throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State
University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

**Pre-Requisite Requirements**

A student may not enroll in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of "C-" or better in each course and an overall GPA of 2.0 ("C"), with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Computer Literacy**

All business majors must meet spreadsheet competency prior to taking upper division courses in the major. This requires completing MIS 10 (or equivalent).

**Minimum Grade Requirements**

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 2</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis 1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis 1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 21

1 Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file supplemental business application to officially apply the Business Administration as their major. Visit www.csus.edu/cba/ubac/Impaction.html (http://www.csus.edu/cba/ubac/Impaction.html) for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Upper Division (Major) Core Courses (24 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 101</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>GM 105</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 101</td>
<td>Computer Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 101</td>
<td>Principles Of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OPM 101</td>
<td>Operations Management</td>
<td>3</td>
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</tbody>
</table>

Total Units 24

**Entrepreneurship (ENTR) Concentration (18 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENTR 185</td>
<td>Venture Growth Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 187</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 189</td>
<td>Corporate Entrepreneurship</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (9 Units)

Select three from the following: 9

**Accounting**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 111</td>
<td>Intermediate Accounting I</td>
<td></td>
</tr>
<tr>
<td>ACCY 121</td>
<td>Cost Accounting</td>
<td></td>
</tr>
</tbody>
</table>

**Finance**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 134</td>
<td>Financial Management</td>
<td></td>
</tr>
<tr>
<td>FIN 137</td>
<td>Financial Institutions and Markets</td>
<td></td>
</tr>
<tr>
<td>FIN 138</td>
<td>Principles of Risk Management and Insurance</td>
<td></td>
</tr>
</tbody>
</table>

**Fund Formation and Investments**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 135</td>
<td>Investments</td>
<td></td>
</tr>
<tr>
<td>FIN 136</td>
<td>Modern Portfolio Management</td>
<td></td>
</tr>
</tbody>
</table>

**Human Resources Management**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HROB 151</td>
<td>Management of Human Resources</td>
<td></td>
</tr>
<tr>
<td>HROB 155</td>
<td>Conflict Management and Negotiation</td>
<td></td>
</tr>
</tbody>
</table>

**International Business**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 190</td>
<td>Multinational Business Finance</td>
<td></td>
</tr>
<tr>
<td>IBUS 190</td>
<td>International Business</td>
<td></td>
</tr>
<tr>
<td>MKTG 190</td>
<td>Multinational Marketing</td>
<td></td>
</tr>
<tr>
<td>IBUS 180</td>
<td>Sustainability Business in Global Economy</td>
<td></td>
</tr>
</tbody>
</table>

**Marketing**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 121</td>
<td>Marketing Research and Information</td>
<td></td>
</tr>
<tr>
<td>MKTG 126</td>
<td>Salesmanship</td>
<td></td>
</tr>
<tr>
<td>MKTG 129</td>
<td>Marketing Management</td>
<td></td>
</tr>
</tbody>
</table>

**Supply Chain Management**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 160</td>
<td>Principles of Quality Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 181</td>
<td>Supply Chain Logistics Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 186</td>
<td>Advanced Operations Planning and Control</td>
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</tr>
</tbody>
</table>

**Special Emphasis**
General Education Requirements ¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (10 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts ²</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1 - Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Area C Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D: The Individual and Society (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course ²</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area E Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area F: Ethnic Studies (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area F Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Units</td>
<td>43</td>
<td></td>
</tr>
</tbody>
</table>

¹ To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

² Required in Major; also satisfies GE.

BS in Business Administration (General Management)

Units required for Major: 66
Total units required for BS: 120

Program Description

The General Management concentration permits a focus upon the skills of the manager, whether the manager is an entrepreneur or operating at the corporate or agency level, with emphasis on the skills of decision making as taught through the case method. Managerial skills in planning, organizing, and controlling are highly transferable within private industry and within the public and nonprofit sector as well, thus permitting a wide variety of career goals.

Note: The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HRB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

Pre-Requisite Requirements

A student may not enroll in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of "C-" or better in each course and an overall GPA.
of 2.0 ("C"), with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Computer Literacy**

All business majors must meet spreadsheet competency prior to taking upper division courses in the major. This requires completing MIS 10 (or equivalent).

**Minimum Grade Requirements**

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C." with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

**Program Requirements**

**Required Lower Division (Pre-Requisites) Courses (21 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 2</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units** 21

1 Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

**Required Upper Division (Major) Core Courses (24 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 101</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>GM 105</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 101</td>
<td>Computer Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 101</td>
<td>Principles Of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OPM 101</td>
<td>Operations Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units** 24

**General Management (GM) Concentration (21 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 187</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>GM 170</td>
<td>Fundamentals of Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 190</td>
<td>International Business</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (12 Units)**

Select four from the following areas: 1

**Accountancy**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 121</td>
<td>Cost Accounting</td>
<td></td>
</tr>
</tbody>
</table>

**Supply Chain Management**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 160</td>
<td>Principles of Quality Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 181</td>
<td>Supply Chain Logistics Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 186</td>
<td>Advanced Operations Planning and Control</td>
<td></td>
</tr>
<tr>
<td>MKTG 188</td>
<td>Supply Chain Modeling and Analysis</td>
<td></td>
</tr>
</tbody>
</table>

**Finance**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 134</td>
<td>Financial Management</td>
<td></td>
</tr>
<tr>
<td>FIN 135</td>
<td>Investments</td>
<td></td>
</tr>
<tr>
<td>FIN 138</td>
<td>Principles of Risk Management and Insurance</td>
<td></td>
</tr>
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</table>

**Human Resources/Organizational Behavior and Environment**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HROB 151</td>
<td>Management of Human Resources</td>
<td></td>
</tr>
<tr>
<td>HROB 152</td>
<td>Management Skills Seminar</td>
<td></td>
</tr>
<tr>
<td>HROB 157</td>
<td>Labor Relations</td>
<td></td>
</tr>
<tr>
<td>MGMT 117</td>
<td>Business, Ethics and Society</td>
<td></td>
</tr>
</tbody>
</table>

**Marketing**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MKTG 115</td>
<td>Marketing Analytics</td>
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<tr>
<td>MKTG 121</td>
<td>Marketing Research and Information</td>
<td></td>
</tr>
<tr>
<td>MKTG 123</td>
<td>Public Relations and Ethics in Business</td>
<td></td>
</tr>
<tr>
<td>MKTG 124</td>
<td>Retail Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 125</td>
<td>Advertising</td>
<td></td>
</tr>
<tr>
<td>MKTG 126</td>
<td>Salesmanship</td>
<td></td>
</tr>
<tr>
<td>MKTG 127</td>
<td>Sales Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 129</td>
<td>Marketing Management</td>
<td></td>
</tr>
</tbody>
</table>

**Entrepreneurship and International Business**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBUS 180</td>
<td>Sustainability Business in Global Economy</td>
<td></td>
</tr>
<tr>
<td>ENTR 185</td>
<td>Venture Growth Strategies</td>
<td></td>
</tr>
<tr>
<td>ENTR 189</td>
<td>Corporate Entrepreneurship</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units** 21

1 No more than one course may be taken in a single area.
1 Course also satisfies General Education (GE)/Graduation Requirement.
General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
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</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (10 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1 - Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Area C Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D: The Individual and Society (3-6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area E Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area F: Ethnic Studies (3 Units)</td>
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<td></td>
</tr>
<tr>
<td>Area F Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Units</td>
<td>40-43</td>
<td></td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Department offers students a "select from the following" option:
   • If student chooses to take MGMT 117, they will meet the Writing Intensive (WI) graduation requirement.

3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." For further information, please visit the foreign language proficiency requirement page.

BS in Business Administration (International Business)

Units required for Major: 66
Units required for Major with additional Emphasis: 75
Total units required for BS: 120

Program Description

The International Business concentration is designed to prepare students for a career in business by providing a broad exposure to the areas of international business, competency in a functional area of business, and an awareness of foreign cultural differences.

The Emphasis in Sustainability Business is designed to introduce students to the emerging field of sustainability in business and the growing focus on the social, environmental, and economic performance of businesses in global economy. The coursework presents the scientific, moral, and business cases for adopting sustainability.

Note: The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State
University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

**Pre-Requisite Requirements**

A student **may not enroll** in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of "C-" or better in each course and an overall GPA of 2.0 ("C"), with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Computer Literacy**

All business majors must meet spreadsheet competency prior to taking 100-level business courses. This requires completing MIS 10 (or equivalent).

**Minimum Grade Requirements**

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of "C" or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Lower Division (Pre-Requisites) Courses (21 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 2</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis ¹</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis ¹</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics ¹</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics ¹</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

¹ Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/impaction.html for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Upper Division (Major) Core Courses (24 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DS 101</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 101</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>GM 105</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 102</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 101</td>
<td>Computer Information Systems for Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 101</td>
<td>Principles Of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>OPM 101</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

**International Business (IBUS) Concentration (21 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIN 190</td>
<td>Multinational Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 190</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 190</td>
<td>Multinational Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCY 190</td>
<td>International Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 187</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 180</td>
<td>Sustainability Business in Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>Electives (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 9 units from one of the following areas:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounting</td>
<td></td>
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<tr>
<td>ACCY 111</td>
<td>Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 121</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 171</td>
<td>Federal Tax Procedures I</td>
<td>3</td>
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<tr>
<td>Economics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 190</td>
<td>International Trade</td>
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<tr>
<td>ECON 192</td>
<td>International Finance</td>
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</tr>
<tr>
<td>ECON 193</td>
<td>Development Economics</td>
<td>3</td>
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<tr>
<td>GEOG 141</td>
<td>Geography of Economic Activity</td>
<td>3</td>
</tr>
<tr>
<td>Finance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIN 134</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 135</td>
<td>Investments</td>
<td>3</td>
</tr>
<tr>
<td>FIN 136</td>
<td>Modern Portfolio Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 137</td>
<td>Financial Institutions and Markets</td>
<td>3</td>
</tr>
<tr>
<td>FIN 138</td>
<td>Principles of Risk Management and Insurance</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
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<tr>
<td>Select an approved upper division language ¹</td>
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</tr>
<tr>
<td>Human Resources Management</td>
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<td></td>
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<tr>
<td>HROB 151</td>
<td>Management of Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>HROB 155</td>
<td>Conflict Management and Negotiation</td>
<td>3</td>
</tr>
<tr>
<td>HROB 156</td>
<td>Current Trends and Emerging Issues</td>
<td>3</td>
</tr>
<tr>
<td>HROB 157</td>
<td>Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>Marketing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKTG 121</td>
<td>Marketing Research and Information</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 122</td>
<td>Buyer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 123</td>
<td>Public Relations and Ethics in Business</td>
<td>3</td>
</tr>
</tbody>
</table>
MKTG 125 Advertising
MKTG 126 Salesmanship
MKTG 129 Marketing Management

Supply Chain Management
MKTG 160 Principles of Quality Management
MKTG 181 Supply Chain Logistics Management
MKTG 186 Advanced Operations Planning and Control
MKTG 188 Supply Chain Modeling and Analysis

Overseas University Study
Select approved overseas university study

Special Emphasis
Select approved area emphasis

Total Units 21

1 Approved by IB coordinator. Must be approved on an "Action Sheet." See the Undergraduate Business Advising Center.

Emphasis in Sustainability Business (9 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track A - For students who have taken IBUS 180 (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group A (Environmental Sustainability) - Select one course from the following</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEOG 118</td>
<td>Earth Transformed</td>
<td></td>
</tr>
<tr>
<td>GEOG 161</td>
<td>California’s Water Resources</td>
<td></td>
</tr>
<tr>
<td>GEOL 130</td>
<td>Oceanography</td>
<td></td>
</tr>
<tr>
<td>ENV 138</td>
<td>Introduction to Environmental Sociology</td>
<td></td>
</tr>
<tr>
<td>or SOC 138</td>
<td>Environmental Sociology</td>
<td></td>
</tr>
<tr>
<td>Group B (Economic Sustainability) - Select one of the following</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECON 120</td>
<td>Economics and Environmental Degradation</td>
<td></td>
</tr>
<tr>
<td>ECON 123</td>
<td>Resource Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 162</td>
<td>Energy Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 193</td>
<td>Development Economics</td>
<td></td>
</tr>
<tr>
<td>Select any course not already taken in Group A or Group B</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Track B - For students who have not taken IBUS 180 (9 Units)
IBUS 180 Sustainability Business in Global Economy 3

Group A (Environmental Sustainability) - Select one of the following 3
| GEOG 118   | Earth Transformed                         |       |
| GEOG 161   | California’s Water Resources              |       |
| GEOL 130   | Oceanography                               |       |
| ENV 138    | Introduction to Environmental Sociology   |       |
| or SOC 138 | Environmental Sociology                    |       |

Group B (Economic Sustainability) - Select one of the following 3
| ECON 120   | Economics and Environmental Degradation   |       |
| ECON 123   | Resource Economics                         |       |
| ECON 162   | Energy Economics                           |       |

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2 Required in Major; also satisfies GE.

3 Department offers students a "select from the following" option:
   • If student chooses to take GEOL 130, they will meet Area B5.

Note: This option only applies to students who are completing the Emphasis in Sustainability Business.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
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<tr>
<td>Writing Intensive (WI)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (6 Units)</td>
<td></td>
<td></td>
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<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
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</tbody>
</table>

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
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<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (7-10 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts 2</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area C: Arts and Humanities (12 Units)
| C1 - Arts                                  | 3     |
| C2 - Humanities                            | 3     |
| C1/C2 - Area C Course                      | 3     |

Area D: The Individual and Society (6 Units)
| Area D Course                              | 3     |

Area E: Understanding Personal Development (3 Units)
| Area E Course                              | 3     |

Area F: Ethnic Studies (3 Units)
| Area F Course                              | 3     |

Total Units 40-43
Applicants who are approved for admission will receive a letter from the Administration to limit enrollment in its graduate degree programs. The Administration reserves the right to revise its admissions standards and degree program are listed within the program descriptions under Graduate Programs. The specific admission requirements for each institution. Admission requirements are different for each of the CBA four-year institution of higher learning or the equivalent from a foreign government, and non-profit organizations.

All applicants for post-baccalaureate degree programs in Business Administration (all concentrations) are exempt from the Foreign Language Graduation Requirement.

MBA (Entrepreneurship and Global Business)

Total units required for MBA: 33

Program Description

The MBA is intended to improve the participant's capacity for effective decision making, to facilitate his/her professional growth and development for increasing managerial responsibility, and to broaden his/her knowledge and understanding of management.

In the Entrepreneurship and Global Business (EGB) Concentration students will learn how to systematically analyze opportunities for global entrepreneurship, understand and be able to cope with the issues and challenges facing global entrepreneurs; obtain knowledge and hands-on experience in managing international business activities of global startups and existing companies and become familiar with the power of networks while working globally. As a result, the concentration will prepare individuals who are interested in beginning their own company in today's globalized business environment. At the same time it allows students the flexibility to tailor coursework to pursue career interests not only in entrepreneurial businesses, but also in multinational enterprises governments, and non-profit organizations.

Admission Requirements

All applicants for post-baccalaureate degree programs in Business must have earned a baccalaureate degree from a regionally accredited four-year institution of higher learning or the equivalent from a foreign institution. Admission requirements are different for each of the CBA Graduate Programs. The specific admission requirements for each degree program are listed within the program descriptions under "Admission Information" on the following pages. The College of Business Administration reserves the rights to revise its admissions standards and to limit enrollment in its graduate degree programs.

Applicants who are approved for admission will receive a letter from the Office of Graduate Studies informing them that they have been admitted as a conditionally or fully classified graduate student.

The following represent minimum academic qualifications and admission criteria. As the College of Business Administration receives a large number of applications each cycle, it reserves the right to admit fewer applicants than those who meet the minimum criteria.

Title V of the California Educational Code requires that MBA candidates must have earned a minimum 2.5 cumulative GPA and an undergraduate degree from an accredited institution.

Unless a valid waiver is presented, applicants must also submit a valid admission test (GMAT or GRE) and/or English Language Proficiency exam scores.

Minimum Admission or Language Test Scores

GMAT: 30% overall, 30% verbal, 30% quantitative; Scores valid for 5 years from test date. Test must be taken by the application deadline. Students are able to apply with pending scores, but must submit an official score report to be considered for admission.

GRE (General Test): 30% verbal, 30% quantitative; Scores valid for 5 years from test date. Test must be taken by the application deadline. Students are able to apply with pending scores, but must submit an official score report to be considered for admission (use institution code of 4671 ONLY when requesting official score reports be sent to Sacramento State; do not use department code).

TOEFL: Paper-based: 550; Internet-based: 80 (International Students only).

IELTS: 7(International Students only).

Deadlines

See the CBA MBA website for current admission deadlines: https://www.csus.edu/college/business-administration/graduate/mba.html

Special Admission Process

Applicants not meeting all the admission criteria may be admitted to the program based on evidence of potential success in the program provided by the applicant. Such evidence may include, but is not limited to: the applicant's maturity, motivation, employment history, managerial potential, letters of recommendation, personal statement, community activities, and other accomplishments that support the applicant's potential to successfully complete the program. An applicant so considered and recommended for admission may be approved by the Graduate Dean or Dean's designee.

Application Procedures

All prospective graduate students must file all of the following documents by the application deadline with both the CBA MBA Program Services and the Sacramento State Office of Graduate Studies (River Front Center 215) as noted below:

1. To Sacramento State, Office of Graduate Studies:
   a. Online Cal State Apply Graduate Application and
   b. Application Fee (you can pay this when you are filling out your online application).
   c. Copies of official transcripts for all universities previously attended. Sacramento State current students or graduates: only submit transcripts not previously submitted to the university or from institutions attended after graduation.
2. To the College of Business Administration, MBA Program Services Office, the following are required for a complete application:
   a. The MBA Supplementary Application.
   b. Supplemental Application Materials.
      i. Official GMAT or GRE scores;
      ii. Current resume;
      iii. 1-2 page statement of purpose;
      iv. Two letters of recommendation.
   c. Copies of official transcripts. Please request 2 copies of official transcripts from all colleges and universities you have attended. Send transcripts to both the MBA Program Services office and to the Office of Graduate Studies. Sacramento State current students or graduates: only submit transcripts not previously submitted to the university or from institutions attended after graduation.

Note: Applications are not considered complete and will not be reviewed unless all application materials and transcripts have been received.

Application Submission

College of Business Administration
MBA Program Services
Tahoe Hall, Room 1020
Sacramento State
6000 J Street
Sacramento, CA 95819-6088
Web site: https://www.csus.edu/college/business-administration/graduate/mba.html
Phone: (916) 278-6470
Email: mba@csus.edu

And to:
Office of Graduate Studies
Sacramento State
River Front Center, Room 215
6000 J Street
Sacramento, CA 95819-6112
Web site: https://www.csus.edu/graduate-studies/
Phone: (916) 278-6470
Email: grad_admissions@csus.edu

International Applicants

International students (F or J Visas) must apply through International Admissions (https://www.csus.edu/international-programs-global-engagement/application-admissions-process/). Do not fill out the general graduate studies application as it will slow down your application process. All materials, inclusive of TOEFL scores, must be turned in to the International Admissions Office. To ensure consideration, international students should submit their material, including GMAT/GRE and TOEFL test scores, to the International Admissions Office one month prior to the CBA MBA Program Services application filing deadline. For an application and details international students should visit The International Admissions Office Web site (https://www.csus.edu/international-programs-global-engagement/application-admissions-process/).

Prerequisites

Prior to enrolling in the Foundation courses, students must be proficient in mathematics, statistics, and computer usage:

- Mathematics: at least one semester of calculus is strongly preferred;
- Statistics: an introductory course in probability and statistics; and
- Computer usage: ability to use common personal computer hardware and software, particularly word processing programs, spreadsheet programs, and internet browsers.

The faculty will assume that all MBA students have these proficiencies. A student may gain the necessary proficiencies in many ways: through coursework, review classes, self-study; or experience. No proficiency courses can count as credit towards program requirements.

Graduate Writing Assessment Requirement (GWAR)

The Graduate GWAR is a CSU wide requirement that should be completed by students before advancing to candidacy. The purpose of the GWAR is for students to demonstrate their proficiency at writing in an academic setting at a graduate-level.

Graduate students must successfully pass a Graduate Writing Intensive (GWI) course in their Graduate Program to complete the requirement.

Foundation Courses

The Foundation courses provide an academic background in the various disciplines of business. The MBA degree program is built upon this common background. Foundation courses should be taken after the student has attained the required entry proficiencies (prerequisites) and should be completed prior to taking program requirement courses.

A student who has a baccalaureate degree or a minor in Business Administration from an AACSB-INTERNATIONAL accredited university may have completed all or most of the Foundation requirements. However, the student will be required to take certain Foundation courses if she/he:

1. has not previously completed the comparable undergraduate course(s) for academic credit from an AACSB-INTERNATIONAL accredited institution or from a high quality program that has a "national or international reputation";
2. has earned less than an overall 3.0 ("B") grade point average (GPA) in the comparable undergraduate courses presented for waiver of required courses;
3. has received a "C" or lower grade in the comparable undergraduate course;
4. cannot demonstrate competency in these courses (7 year limit); or
5. has completed the bachelor's degree at a foreign institution.

Courses taken at AACSB-INTERNATIONAL accredited colleges of business will be accepted for transfer credit if the course is regarded as equivalent to the course for which credit is requested. Business Foundation courses and Core courses will not be accepted for transfer credit from programs that are not AACSB-INTERNATIONAL accredited unless taken at institutions that have national or international reputations of high quality programs.

Please visit the MBA Program website to download Foundation Course Waiver forms and petitions for equivalency for graduate, non-articulated courses. The CBA Academic Standards Committee will evaluate whether the institutions satisfy the requirement of "national or international reputations of high quality programs." Subsequently, faculty in the appropriate department will make the final determination for course equivalency, e.g., content, method of instruction, method of evaluating
students, and/or course duration. To find out if your university is AACSB accredited go to www.AACSB.edu.

Master students who are registered in the last two Foundation courses must file an Application for Classification with the MBA Program Services at mps@csus.edu, to be able to enroll in the courses designated as Program Requirements. The student's academic status will be reviewed to assure that he/she meets the necessary criteria to be accepted as a classified graduate student.

A GPA of at least 3.0 ("B") is required in all Foundation courses taken at Sacramento State, and program requirement courses presented for the degree.

The foundation courses are available after acceptance into one of the CBA Graduate Programs.

Note: To be completed after the student has demonstrated the required entry proficiencies and must be completed prior to taking Program Requirements in any of the Master's programs.

A graduate student may request a challenge for waiver of a College of Business Administration foundation or core course if it at least one of the following conditions is met:

- The student has taken an equivalent class elsewhere, subject to the GPA requirement in CBA academic policy. For core classes, the equivalent class must be at the graduate level; for the foundation classes, the equivalent class can be taken at the undergraduate level.
- The student has achieved appropriate professional or academic qualification.
- The student has appropriate professional work experience.

It is the responsibility of a student to provide sufficient documentation to support a waiver challenge application.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the MBA Program Services at mps@csus.edu for advancement to candidacy for the Master's degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 210</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MBA 220</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 230</td>
<td>Behavior Science Applications in Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 240</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 280</td>
<td>Value Chain Integration</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Group A (9 Units)**

Select at least three of the following:

- MBA 232 Negotiation and Relationship Management
- MBA 235 Management Of Innovation
- MBA 243 Global Marketing Environment
- MBA 270 Global Business Management
- MBA 271 Integrated Entrepreneurship Management
- MBA 272 Entrepreneurial Resources Management
- MBA 273 Global Supply Chain Management

**Elective Group B (6 Units)**

Select at least two MBA 200-level courses which are not in Group A. Total elective units from group A and group B are 15.

**Culminating Experience (3 Units)**

Select one of the following:

- MBA 501 Culminating Experience Project in Business and Strategy
- MBA 500A Thesis
- MBA 500B Project

**Total Units**

33

### Minimum Units and Grade Requirement for the Degree

Units required for MBA: 33 (excluding foundation courses)

Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is "C." No more than two (2) courses with a grade of "C" will be counted for satisfaction of graduate program requirements.

### Advancement to Candidacy

A student’s program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.
A graduate student may request a challenge for waiver of a College of Business Administration foundation or core course if at least one of the following conditions is met:

- The student has taken an equivalent class elsewhere, subject to the GPA requirement in CBA academic policy. For core classes, the equivalent class must be at the graduate level; for foundation classes, the equivalent class can be at the undergraduate level.
- The student has achieved appropriate professional or academic qualification.
- The student has appropriate professional work experience.

It is the responsibility of a student to provide sufficient documentation to support waiver challenge application. Academic credit for core courses is not earned by waiver. The requirement for completing a core course is waived, providing the student enrolls in and satisfactorily completes an elective course in that discipline or an elective approved to the appropriate faculty advisor who grants the waiver.

College of Continuing Education

College Overview

The College of Continuing Education (CCE) extends the mission of the university by increasing educational access for diverse learners. We believe that learner-centered programs and services lead to individual, organizational, and community transformation. With a primary expertise on serving adult learners, CCE provides programs and services to individuals and employers year-round in a variety of formats and modalities. The College supports students throughout California and beyond, serving over 80,000 learners annually through in-person, hybrid and fully online workshops, courses, conferences, certificate and degree programs.

For more information about the College of Continuing Education, please visit www.cce.csus.edu or call (916) 278-4433.

Conference and Event Services

CCE’s Conference and Event Services is recognized throughout California as a leader in the meeting and event planning industry. We excel at creating partnerships where government, education and private industry come together to address community, regional and statewide issues. CCE provides assistance with conferences, organizational events, stakeholder engagement, and regional and statewide meetings. We offer a full range of services designed to anticipate and facilitate all aspects of a successful event.

Degree and Credential Programs

On behalf of academic departments, CCE administers several undergraduate degree completion programs, graduate programs, and credential programs in a variety of formats that meet the needs of diverse student audiences. CCE offers degree and credential programs in multiple areas, such as business, child and adolescent development, communication sciences and disorders, criminal justice, education, nursing, psychology, public health, and social work.

Open University

Open University provides individuals with the opportunity to explore the university environment, pursue an area of interest or update professional skills. This program allows community members to enroll in university classes without going through the formal admission process. Upon instructor and department approval, individuals may be enrolled in a course through the Open University program. Some courses may require prerequisites.

Professional Development Programs

CCE offers a wide variety of courses and certificate programs specifically designed for working professionals. Our programs feature quality curriculum that combines practice and theory, expert instructors with extensive industry experience, affordable fees to fit individual or organizational budgets, networking opportunities with business professionals, and convenient class schedules to accommodate work and family. Program areas include business operations, emergency medical services, public safety, teacher and educator preparation and more.

Summer Session and Winter Intersession

Summer and Winter programs enable Sacramento State and visiting students to meet or accelerate degree requirements, pursue an area of interest, or reduce class load for the fall and spring semesters. CCE works with academic departments and colleges across campus to offer a robust selection of courses during Summer Session and Winter Intersession.

Training and Organizational Development Services

CCE offers a wide variety of custom training solutions specifically designed to meet the needs of public and private organizations. From an initial needs assessment through program planning and delivery as well as visual design (video and graphic design), throughout the process, we work closely with organizations to ensure that program content and learning outcomes are aligned with organizational goals and objectives. Choose from a portfolio of existing programs and services such as leadership and management, diversity, equity, inclusion, and belonging, workforce development, communication, conflict management, change management, leadership coaching, strategic planning, facilitation, and mediation. Additionally, CCE has a team of expert instructors with extensive industry experience who design custom solutions based on specific organizational needs. Training programs are delivered virtually or in-person via locations throughout California.

Travel Study and International Professional Development Services and

In partnership with the Office of International Programs and Global Engagement (IPGE) and academic departments and colleges, CCE offers faculty-led travel study courses to infuse international, intercultural, and global dimensions into students’ academic experience. These programs feature experiential learning by pairing international or domestic travel with academic coursework toward major and degree requirements. CCE also offers professional certificate programs to international audiences who are interested in enhancing professional and academic skills. These are often offered as cohort experiences in partnership with international universities.

Youth Programs

Students in 7th–12th grade can get a feel for college life in CCE’s Summer Youth Academies. The noncredit Academies provide youth with the opportunity to preview college, engage in hands-on academic and career exploration, and explore a variety of subjects under the guidance of campus faculty, industry experts, and regional educators.

College of Education

College Overview

As a comprehensive college, we collaborate with our professional communities in preparing educators, leaders, and Deaf service providers to serve as agents of positive social change. We give
access to professional careers for students with diverse identities and backgrounds, and contribute to their personal growth. We provide informed advice and applied research services to the local educational community.

Please review our website (https://www.csus.edu/college/education/) for up-to-date information about our programs and services.

# Graduate and Professional Studies in Education

**College of Education** - Graduate and Professional Studies in Education (https://www.csus.edu/college/education/masters-programs/)

## MS in Counselor Education
MS in Counseling (School Counseling) (p. 488)
- Pupil Personnel Services School Counseling Credential (p. 492)
- Pupil Personnel Services School Counseling Internship Credential (p. 492)
MS in Counseling (Career Counseling) (p. 482)
MS in Counseling (Rehabilitation Counseling) (p. 486)
MS in Counseling (Marriage, Couple, and Family Counseling) (p. 484)

## MA in Educational Leadership and Policy Studies
MA in Educational Leadership and Policy Studies (TK-12 Administration) (p. 473)
- Preliminary Administrative Services Credential (p. 490)
- Preliminary Administrative Services Internship Credential (p. 491)
MA in Educational Leadership and Policy Studies (Higher Education Leadership) (p. 472)
MA in Educational Leadership and Policy Studies (Workforce Development) (p. 475)

## MA/Ed.S in School Psychology
Ed.S. in School Psychology (p. 464)
MA in School Psychology (p. 479)
- Pupil Personnel Services School Psychology Endorsement Credential (p. 493)

## MA in Multicultural Education (p. 478)

## MA in Education: Curriculum and Instruction (p. 466)

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**MA in Gender Equity Studies in Education (p. 476)**

**MA in Language and Literacy (p. 470)**
- Reading and Literacy Added Authorization (forthcoming)
- Reading and Literacy Leadership Specialist Credential (forthcoming)
- Certificate of Competency - Teaching Reading to Adults (p. 461)

**Doctorate in Education (Ed.D.) (p. 462)**
- Preliminary Administrative Services Credential

## Certificate in Maker Education (p. 460)
For more information, please contact the College of Continuing Education at this website (https://cce.csus.edu/master-arts-universal-design-elearning/).

**MA in Universal Design for eLearning (p. 481)**
For more information, please contact the College of Continuing Education at this website (https://cce.csus.edu/master-arts-universal-design-elearning/).

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**Notice to Students RE: Professional Licensure and Certification**
California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

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**Contact Information**
Dr. Sarah Jouganatos, Interim Chair, Graduate and Professional Studies in Education
Eureka Hall 401
(916) 278-5557
Graduate and Professional Studies in Education Website (https://www.csus.edu/college/education/masters-programs/)

Dr. (edd@csus.edu)Vajra Watson, Program Director, Ed.D.
Eureka Hall 318
(916) 278-2282
Doctorate Program Website (https://www.csus.edu/college/education/doctorate-educational-leadership/)
EDC 205. Advanced Counseling Theory and Multicultural Systems Abroad. 3 Units
Prerequisite(s): EDC 216, EDC 280, EDC 210, EDUC 155, and EDUC 156
Term Typically Offered: Summer only

This course is designed to provide students with a foundation in the philosophy and practice of contemporary theories of counseling and psychotherapy. Course material is aimed at helping students develop basic skills necessary for effective counseling and communicating with clients. Students will engage in: (1) personal growth in counselor identity development, (2) counseling skills development utilizing multiple approaches, and (3) theory integration and multicultural systems. Students will be actively involved in their learning and invited to share knowledge.

Note: This course is a study abroad experience.

EDC 210. Advocacy, Social Justice, and Cultural Foundations in Counseling. 3 Units
Prerequisite(s): Classified and/or admitted student in MS Counseling program
Term Typically Offered: Fall only

Exploration of ethnic and cultural differences to develop or expand awareness, techniques, skills, theories, concepts, and to acquire information necessary to counsel effectively with clients of various cultural groups. Students examine their own attitudes, behaviors, perceptions, and biases, and are encouraged to develop their own multicultural approach to counseling.

EDC 212. Gender and Sexuality in Counseling. 3 Units
Term Typically Offered: Fall, Spring

An examination of various gender roles within society, including their impact on the individual, couple and family. An overview of information and methods for working in the field of human sexuality education and counseling. Addressing problems involving sexual disorders, sexually transmitted infection & HIV/AIDS. Preventing, assessing, reporting, and intervening in family violence. Obtaining and developing accurate information and awareness about current sources and methods to competently assist clients in their struggle toward a more meaningful and satisfying sense of self.

EDC 214. Dynamics of Human Development. 3 Units
Prerequisite(s): Classified or Admitted Student in MS Counseling program
Term Typically Offered: Spring only

Overview of theories and research pertaining to the dynamics of human development, including cultural, biological, social, and psychological factors. Particular emphasis will be placed on the relationship of these factors to the field of counseling. Lifespan coverage includes conception, pregnancy, birth, infancy-toddlerhood, early/middle childhood, adolescence, early/middle/late adulthood, as well as dying, death, and bereavement.

EDC 215. Foundations of Professional School Counseling. 3 Units
Term Typically Offered: Fall, Spring

Understanding the roles, responsibilities, and functions of a professional school counselor is necessary to student and counselor success alike. Topics on school counseling services, practices, basic concepts related to the organization and operation of school counseling programs and socio-cultural, economic, and other societal influences on the educational process in TK-12 settings will be explored.
EDC 216. Counseling Theory. 3 Units
Prerequisite(s): Classified, or Admitted Student in MS Counseling program
Corequisite(s): EDC 280. Please sign up for the same section of 216 and 280 as they are paired by section.
Term Typically Offered: Fall only
Examination of ten counseling philosophies, with emphasis on knowledge and practice. Requires the refinement of one's own counseling orientation. Designed to provide students with a foundation in the basic philosophy and practice of contemporary theories of counseling/psychotherapy. The requirements support three components of multiple measures of learning and outcomes: 1) personal growth, 2) counseling skills building utilizing multiple approaches, 3) professional development.

EDC 218. Assessment In Counseling. 3 Units
Prerequisite(s): Classified, or Admitted Student in MS Counseling program
Term Typically Offered: Fall, Spring
Intended to acquaint the prospective counselor with an array of assessment instruments and appraisal techniques. Includes practical experience with tests as well as foundations of test development. Lecture three hours.

EDC 219. Group Processes in Counseling. 3 Units
Prerequisite(s): EDC 216 and EDC 280, classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
Group Processes in Counseling is a course that introduces students to group process and theory, including group counseling skills and facilitation. Participation in a group experience is required as well as leading a group under supervision. The experience and material in this course are aimed at helping students develop group counseling skills necessary for effectively leading counseling and psychoeducational groups while integrating theory into practice.

EDC 220. The Spiritual Dimension in Counseling and Psychotherapy. 3 Units
Prerequisite(s): EDUC 155, EDUC 156, EDC 216, EDC 280; or instructor permission.
Term Typically Offered: Fall, Spring
Investigation into concerns and issues, modes, and methodologies surrounding exploration of the spiritual dimension in the counseling/therapy relationship. Experiential activities are included.

EDC 222. Clinical Stress Reduction. 3 Units
Term Typically Offered: Fall, Spring
Major concepts, theories, and approaches to effective stress reduction. Includes stress level assessment, planning and implementation of a stress reduction program. Practice of beneficial stress reduction techniques and application in clinical practice. 
Note: Open to unclassified students with instructor permission.

EDC 230. Law and Ethics for Marriage, Family, and Child Counseling. 3 Units
Prerequisite(s): EDC 155, EDC 156, EDC 216, EDC 280 or instructor permission.
Term Typically Offered: Fall, Spring
Legal and ethical considerations in the practice of marriage, family, and child counseling. Current laws, responsibilities, restrictions, rights and privileges, licensing regulations, and ethical standards of major professional groups. Child abuse assessment and reporting requirements. Organization, administration, and management of independent practice. Lecture three hours.

EDC 231. Diagnosis and Treatment Planning. 3 Units
Prerequisite(s): EDC 216, EDC 218, EDC 280; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
This graduate level course provides students with an overview of adult and child psychopathology presented as a manifestation of multiple biological, psychological, sociocultural and other factors. It offers an advanced discussion of psychopathology with an emphasis on biopsychosocial assessment, differential diagnosis, use of the Diagnostic and Statistical Manual of Mental Disorders, and development of treatment plans. Lecture three hours.

EDC 232. Family Violence. 3 Units
Prerequisite(s): EDC 212, EDC 230, EDC 234; or instructor permission.
Term Typically Offered: Fall, Spring
Violence in the family includes spouse abuse, child abuse, incest, and sexual abuse. Myths about these areas will be replaced by empirically-based facts. There will be an emphasis on effective treatment methods; research findings on family violence, including etiology and family patterns; overlap with alcohol and other drugs, and maintenance factors. Students will gain techniques and skills in interviewing, assessment, and counseling when violence is a presenting issue.

EDC 233. Substance Use and Addiction Counseling. 3 Units
Prerequisite(s): EDC 231, classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
Provides an overview of substance use disorders, addiction, and co-occurring disorders. Students will develop an understanding of Substance Use Disorders (SUD’s); the physiological, psychological, behavioral, and social consequences on the user and family members; to facilitate the development of addiction counseling competencies that are associated with positive treatment outcomes, and to increase the student’s level of confidence relative to providing substance use evaluation, education, and treatment services. Emphasis will be placed on developing and practicing substance use counseling skills.

EDC 234. Seminar: Marriage and Family Counseling. 3 Units
Prerequisite(s): EDC 216, EDC 280; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
Introduction to the basic concepts and principles of family therapy. Provides and lays the foundation on which all theories/schools of family therapy are based and covers the basic theories of family therapy. Issues include evaluation of families, diagnosis in a family context, interviewing strategies, redefining problems in a family systems context, and treatment principles. Lecture three hours.
EDC 236. Couples Counseling. 2 Units
Prerequisite(s): EDC 212; EDC 234.
Term Typically Offered: Fall, Spring

Focuses on applying major schools of couples and sex therapy to actual practice. Issues include evaluation of couples, interviewing strategies, power, diversity, ethical and legal considerations, treatment principles and practice, as well as outcome research in couples therapy. Lecture/discussion/practice.

EDC 238. Professional Issues in Marriage Couple and Family Counseling. 2 Units
Term Typically Offered: Fall, Spring

This course will provide MCFC students an advanced overview of current evidence-based practices, intervention techniques, and treatment strategies for diverse populations. This class will challenge students to conceptualize through a diverse therapeutic lens. Topics will include domestic violence, death and dying, substance use disorder, patients with HIV or AIDS, relational trauma, the foster care system, infidelity in marriage and couples counseling, caring for caregivers, family law, and practice/management considerations including HIPAA and third party reimbursement.

EDC 239. Foundations in Rehabilitation Counseling. 3 Units
Prerequisite(s): Classified student in the MS Counseling program
Term Typically Offered: Spring only

This foundation course is designed to introduce and orient students to the profession of rehabilitation counseling, the various setting in which services are performed, and federal laws that dictate delivery of rehabilitation services. Students will learn about the history and development of rehabilitation counseling and the current issues relevant to this specialization including historical and contemporary perspectives on disability, societal attitudes towards disability and its influence on individuals with disabilities.

EDC 240A. Medical Aspects of Disability. 3 Units
Prerequisite(s): Classified or Admitted Student in the MS Counseling program
Term Typically Offered: Fall, Spring

This course focuses on the medical aspects of various congenital, hereditary, and trauma-induced disabilities. The etiology, pathology, treatment, symptoms, prognosis, and limitations caused by various disabling medical conditions are covered. Implications of medical disabilities are explored inclusive of its relationship to vocational adjustment. Areas of exploration include motivation, self-concept, and personal and societal attitudes toward disability. This course will include a survey of psychosocial aspects of disability as it pertains to medical aspects of disability.

EDC 240B. Psychosocial Aspects of Disability. 3 Units
Prerequisite(s): Classified or Admitted Student in MS Counseling program
Term Typically Offered: Fall, Spring

The primary focus of this course will be on the psychosocial aspects of disability including the psychological genesis of and social implications affecting individuals with disabilities. Various psychological disabilities will be explored in concert with treatment considerations. This course builds on knowledge gained in the EDC 240A: Medical Aspects of Disability. The course will explore rehabilitation philosophy and processes from a holistic standpoint to enhance coping and skill development to aid in vocational adjustment.

EDC 241. Developmental Stages and Art Therapy Techniques. 3 Units
Prerequisite(s): EDC 215 and EDC 156.
Term Typically Offered: Fall, Spring

In-depth study of normal stages of development in art with special emphasis on the developmental stages as both diagnostic indicators and aids in devising art therapy treatment. Includes hands-on experience with a variety of art therapy techniques and discussion of their applicability to different client populations. Purchase of some basic art supplies is required. Lecture, discussion, three hours.

EDC 242. Play and Art in Therapy with Children. 3 Units
Prerequisite(s): EDC 216, EDC 280, classified student in the School Counseling Specialization. Other Counselor Education students may be permitted to enroll when space is available.
Term Typically Offered: Fall, Spring

Explores the ways children use fantasy, play, and art as means for communication, growth and healing. Emphasis is placed on clinical skills, therapeutic limit setting, counseling theory and developmentally appropriate interventions. Purchase of some basic art supplies is required.

EDC 244. Trauma and Crisis Counseling. 3 Units
Term Typically Offered: Fall

This course provides opportunities for both theory and skill development by examining crisis and trauma counseling, including crisis theory; multidisciplinary responses to crises, emergencies, or disasters; cognitive, affective, behavioral, and neurological effects associated with trauma; brief, intermediate and long-term approaches; assessment strategies for clients in crisis and principles of intervention for individuals with mental or emotional disorders during times of crisis, emergency, or disaster.

EDC 250. Education Research. 3 Units
Prerequisite(s): Graduate status
Term Typically Offered: Fall, Spring

EDC 250 will provide the study of qualitative and quantitative methods used in the development of reliable knowledge in the field of education. It includes identification and formulation of research problems, research designs, and the presentation of reports representative of different research strategies. Scholars will be immersed in counseling discourse and a wide range of writing assignments in various genres. It is anticipated that this course will facilitate skills important to the evaluation of educational and psychological programs.

EDC 252. Legal and Ethical Issues in Professional Counseling. 3 Units
Term Typically Offered: Fall

Designed to provide students with basic knowledge and skills necessary to be legally and ethically competent in practice of counseling. Examines ethical and legal considerations pursuant to practice of counseling. Topics to be covered are ethics (CAMFT, AAMFT, ACA, ASCA, NCDA) related to counseling practice in private and public sectors, as well as laws regarding mandatory child and elder abuse assessment and reporting, confidentiality, privilege, liability, marriage, family, child and school ethics and law. Required for graduation with a degree in Counseling.
EDC 254. Counseling and Psychotropic Medicine. 3 Units
Prerequisite(s): EDC 231 and Classified or Admitted Student in the MS Counseling program
Term Typically Offered: Fall, Spring
Provides an introduction to psychopharmacology; the biological bases of behavior; basic classifications, indications, and contraindications of commonly prescribed psychopharmacological medications; and effective approaches to collaborating with clients, their families and other professionals so that appropriate referrals can be made for medication evaluations and so that the side effects of those medications can be identified. Meets the BBS licensure requirements for Professional Clinical Counselors and Marriage and Family Therapists.

EDC 260. Career Development. 3 Units
Prerequisite(s): Classified or Admitted Student in MS Counseling program
Term Typically Offered: Fall, Spring
Provides a basic introduction to career development and career counseling. Identification and assessment of issues common in career counseling settings are examined. Group and individual models of career development and counseling in schools, community agencies or private industry are also investigated and discussed. Lecture three hours.

EDC 261. Seminar in Counseling: Job Placement. 3 Units
Term Typically Offered: Fall, Spring
Analyzes and practice of job-seeking skills, employer information base, and job placement of the handicapped.

EDC 262. Career Counseling Process. 3 Units
Prerequisite(s): EDC 260; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
On-going learning of the processes needed to deliver career counseling services to a variety of clientele. Students will extend their theoretical knowledge base and will more clearly focus on the relationship between a person’s life and the process of career development. Elements to be studied in more depth include career development theory, assessment techniques and strategies, goal setting, decision making, and integration of multicultural aspects and strategies. A practical experience in administering and interpreting selected test instruments extensively used in career counseling will be included. Lecture three hours; practical experience one hour.

EDC 263. Advanced Case Conceptualization in Clinical Rehabilitation. 3 Units
Prerequisite(s): EDC 239 and Classified or Admitted Student in the MS Counseling program
Term Typically Offered: Fall, Spring
This course provides an in-depth review and study of the clinical rehabilitation processes and continuum of care. This course will address effective clinical rehabilitation counseling assessments, interventions, and documentation. Students will apply principles, models, and use documentation formats of biopsychosocial case conceptualization and treatment planning. This course will review strategies for interfacing with medical and allied health professionals, including interdisciplinary treatment teams culminating in a case management and clinical file addressing a holistic intervention for clients and consumers.

EDC 264. Seminar in Counseling: Career Systems Development. 3 Units
Prerequisite(s): EDC 260; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
Specific emphasis is at the implementation level, with students learning the necessary skills for implementing, maintaining, and stimulating career development in schools, community agencies or private industry. Lecture three hours.

EDC 266. Seminar in Counseling: Career Program Development. 3 Units
Prerequisite(s): EDC 260; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
Specific emphasis is at the program development level, with students learning the necessary components for developing a career counseling program in schools, community agencies, or private industry. Lecture three hours.

EDC 268. Career and Job Search. 3 Units
Prerequisite(s): EDC 260 or instructor permission.
Term Typically Offered: Fall, Spring
Work is undergoing change with the advent of new technologies, an increasingly diverse workforce, and corporate restructuring. These conditions have led to more frequent occupational shifts and the loss of previously secure jobs, self-reliance replacing loyalty in relations between employers and employees, and fragmented careers becoming more common as family responsibilities and work opportunities became increasingly interwoven. Examines traditional and emerging approaches for assisting clients in a changing and evolving job market.

EDC 270. Organization and Administration of School Counseling Programs. 3 Units
Term Typically Offered: Fall, Spring
Principles and practices necessary to plan, initiate, administer, and evaluate school counseling programs, including related laws. Lecture, discussion three hours.

EDC 272. Counseling Children and Youth. 3 Units
Prerequisite(s): EDC 216, EDC 280, classified student in Counselor Education Program. School specialization: EDC 242.
Corequisite(s): School Counseling Specialization: EDC 475.
Term Typically Offered: Fall, Spring
Provides students with a theoretical foundation and working knowledge of contemporary issues and interventions for children and youth. A variety of presenting problems and treatment strategies are explored.

EDC 274. Advocacy and Systemic Change in School Counseling. 3 Units
Prerequisite(s): EDC 216, EDC 280, EDC 270; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
This course provides an overview of consultation, leadership, and advocacy models with emphasis on their use and application in school settings. The effective counselor must be able to employ consultation, advocacy, and leadership skills in order to meet the needs of students. Methods for analyzing data to design intentional and developmental school counseling interventions will be explored.
EDC 280. Counseling Skills Lab. 2 Units
Prerequisite(s): Classified Student in MS Counseling program
Corequisite(s): EDC 216 is taken the same semester
Term Typically Offered: Fall only

Supervised practice in acquiring and developing counseling micro-skills including the basic styles of communication, verbal and nonverbal, with additional focus on developing and practicing counseling micro-skills under supervision and observation. The material in this course is aimed at helping students develop basic counseling skills necessary for effectively counseling and communicating with clients while integrating theory into practice.

Note: Recommended to be taken within the first 6 units of study in the Counselor Education Program

Credit/No Credit

EDC 282. Practicum in Group Counseling. 2 Units
Prerequisite(s): EDC 219; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

Supervised practice in leadership of group counseling. Lecture one hour; laboratory three hours.
Credit/No Credit

EDC 294. Cooperative Education Experience. 3 Units
Prerequisite(s): Open only to upper division and graduate students; consent of Department Chair.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student's major field of study and academic credit. Students receive supervised employment in school districts, state and community agencies, companies, and other appropriate settings. Requires attendance at weekly meetings, preparation of application packet, completion of field study assignment, and a written final report.

Note: Units may not be used to meet course work requirements. May be repeated once for credit.

Credit/No Credit

EDC 296. Current Issues in Counseling: Meditation. 1 Unit
Term Typically Offered: Fall, Spring

An introductory experimental class in meditation which provides a basic foundation of basic meditative theories, the experience of meditative practices, and a basic knowledge of meditative techniques of benefit both personally and with clients. Research has demonstrated that meditation is helpful in a number of stress-related conditions and recent research indicates it is often more effective than psychotherapy in treatment of some problems.

Note: Instructor approval required. May be taken twice for credit.

Credit/No Credit

EDC 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects at graduate level designed especially for students capable of independent study.

Note: Admission by approval of the instructor with whom the student will be working directly and the Department Chair.

Credit/No Credit

EDC 475. Counseling Practicum. 3 Units
Prerequisite(s): EDC 219 and classified student in MS Counseling.
Additional prerequisites by specialization: Career - EDC 260; MCFC - EDC 476; School - EDC 270; Rehabilitation - EDC 239.
Term Typically Offered: Fall, Spring

Supervised counseling practice in Center for Counseling and Diagnostic Services (CCDS) and/or school settings. Emphasis on application of counseling theories and the integration of one's own counseling philosophy into practical applications. Basic requirements: 100 clock hours with at least 40 client contact hours, 1 hour per week of individual/triadic supervision, and one and half hours per week of group supervision.

Note: Department petition is required the semester prior to enrollment. Must receive Credit for EDC 475 in order to move into EDC 480.

Credit/No Credit

EDC 476. Advanced Skills in Marriage and Family Counseling. 1 Unit
Prerequisite(s): Classified student in the MS Counseling program and marriage, couple, family counseling concentration
Term Typically Offered: Fall, Spring

Structured observation and supervised practice in marriage, couple, and family counseling. Application of material learned in EDC 234 to build on practice and use of systems theories and techniques. Emphasis on establishing relationships, interviewing techniques with multiple clients, assessment techniques, setting goals, developing theory based treatment plans using systems theories, and learning to think systemically. Laboratory two hours.

Credit/No Credit

EDC 480. Field Study in Counseling. 3 Units
Prerequisite(s): EDC 475 and department approval.
Term Typically Offered: Fall, Spring

Supervised counseling and field experiences arranged in community-based settings such schools, colleges and/or agencies. Students are to collect between 600-800 hours of field work experience in the form of direct and indirect counseling experiences as designated by specialty and aligned with CACREP, CTC, and BBS requirements. This course is designed to be taken third year in both fall and spring, collecting approximately 300 hours each semester and totaling 6 units.

Note: EDC 480 must be taken twice, over two separate semesters, in order to meet accreditation requirements. Department approval is required the semester prior to enrollment.

Credit/No Credit
EDC 551. Master's Project - Counseling - Plan B. 3 Units
Prerequisite(s): Advanced to candidacy. All course requirements in Counselor Education and EDC 555.
Term Typically Offered: Fall, Spring
Completion of a project approved for the Master's degree.
Note: Department petition is required the semester prior to enrollment.

EDD 600. Transformational Leadership. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring
Designed to engage students in understanding, implementing, and evaluating strategic leadership practices based on various theories, models, and approaches for achieving organizational transformation. Students will become skilled facilitators of the organizational transformation process by initiating, implementing, sustaining, and evaluating transformation/change efforts. Students will build a solid foundation through the integration of theory and practice in order to implement a planned change process in their home institution.

EDD 601. Organizational Leadership. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring
Builds and expands on candidates' knowledge of systems thinking, personal and organizational behaviors, and leadership approaches to the change process. Candidates will demonstrate ethical thinking and action in organizational settings by re-conceptualizing leadership roles and organizational structures. In coursework and related fieldwork components students will apply concepts and theories to improving their respective educational institutions. Among the interactive pedagogies used are: case studies, experiential exercises, dialogue and group activities.

EDD 602. Policy and Practice for Educational Leaders I. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring
Develops in students the skills for informed analysis of educational policy in order to positively influence the educational policy in the K-12 or community college setting. In addition to studying the historical perspectives pertaining to educational policy, practice, and reform, students will investigate the mission of public education. Students will also study governance and inter-governmental relations through contemporary policy development with particular reference to current law, local board policy, shared governance, and working with a variety of constituencies.

EDD 603. Policy and Practice for Educational Leaders II. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring
Designed to engage students in critical analyses of policy at the local, state, national, and international levels. Specific California and federal policy environment structures and processes will be examined. Students will learn about how public policy is generated, potential consequences, ethical dilemmas, social justice, and equity issues.

EDD 604. Introduction to Educational Research. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program.
Term Typically Offered: Fall only
This course introduces students to educational research design, methodologies, findings, and audience. Students will learn about how public policy is generated, potential consequences, ethical dilemmas, social justice, and equity issues.

EDD 605. Qualitative Research Methods. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program.
Term Typically Offered: Spring only
This course is designed to provide doctoral students with instruction in qualitative research approaches as applied to questions of educational leadership and policy. The course will emphasize individual and group interviewing as techniques for qualitative study data collection as well as coding and analysis of qualitative data. This course is particularly useful for doctoral students who plan to conduct a qualitative or mixed method dissertation related to an educational leadership and/or policy topic.

EDD 606. Quantitative Research Methods. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program.
Term Typically Offered: Fall only
This course will introduce educational leaders to concepts in quantitative research in preparation for conducting independent research. This course will enable students to critically understand, critique, and develop quantitative research methodology and apply it appropriately to various educational issues.
EDD 607. Community and Communication in Educational Leadership. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Presents theories and frameworks concerning organizational, interpersonal, and cross-cultural communication in educational and community contexts. Includes developing written and verbal skills for specific contexts, including strategic planning, evaluation, presentations, formal and informal texts, technology, crisis management, and public relations. Through research and practical application, enhances communication skills needed for creating inclusive systems and positive results for all stakeholders.

EDD 608. Diversity and Equity in Complex Organizations. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Designed to engage students in self introspection of awareness and advocacy in applying theoretical frameworks and research to promote equitable, excellence in schooling. Students will demonstrate the ability to develop cross-cultural relationships across multiple constituents for the purpose of improving students performance and promoting social justice. Students will develop the capacity to be courageous change agents in assuring academic excellence for all students.

EDD 609. Human Resource Management for Educational Leaders. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Examines how to manage human resources effectively in the dynamic legal, social, and economic environment currently impacting educational institutions. Among the topics included are: formulation and implementation of human resource strategy, job analysis, methods of recruitment and selection, techniques for training and development, performance appraisal, compensation and benefits, and the evaluation of the effectiveness of human resource management frameworks and practices. Class participants will be expected to demonstrate understanding of Human Resource Management (HRM) competencies through assignments, exercises and case analyses.

EDD 610. Curriculum and Instruction Issues for Educational Leaders. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Presents curriculum and instruction from a leadership perspective within the contexts of K-12 schools and community colleges. Students examine contemporary issues in school curriculum, including policy initiatives and reform efforts affecting curricular decision-making. Prepares students to analyze and design appropriate strategies for implementing and evaluating district and school curricula and to investigate the implications of curricula for educational programming. Students also learn specific foundations and procedures for professional development that have well-documented effects on student achievement.

EDD 611. Legal Issues for Educational Leaders. 2 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Examines key legal issues that govern daily and long-range decisions of educational leaders. Focuses on understanding California and federal codes, case law, policies, and significant precedent and will emphasize analysis of key legal concepts and application of law to major areas including finance, personnel, risk management, curriculum, student services, teacher rights, torts, students rights, and access. Examines trends in law and the initiation and influence of educational law to positively influence educational institutions.

EDD 612. Student Services in Education. 2 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Provides a comprehensive insight into the student services. It addresses both practical and theoretical perspectives intended to build a sense of vision and passion to transform the profession of student affairs and leadership. In particular, examines four distinct arenas: 1) historical and philosophical foundations of student affairs and leadership 2) management and organizational issues, 3) essential skills and professional development in building an equitable organization, and 4) the synthesis of practice and theory.

EDD 613. Finance and Budget for Educational Leaders. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Analyzes two related topics with respect to public educational institutions: funding and internal budget management. Provides a state and national overview of the economics and finance of K-12 and higher education, including private and public benefits of education, methods of financing public education, and contemporary policy issues regarding school and college finances. Focuses on how educational leaders can most effectively manage resources to further the vision, goals, and philosophy of the organization.

EDD 614. Issues in Educational Leadership: Synthesis and Application. 2 - 3 Units

Prerequisite(s): Successful completion of all previous courses in the EDD program (EDD 600-EDD 613) with a grade of B or higher and no incompletes.
Term Typically Offered: Spring only

This seminar integrates the principal three themes of the program: leadership, policy, methods, and equity. Students will take a qualifying exam to demonstrate their mastery of key program skills, concepts, and theories and their readiness to undertake dissertation research.
EDD 615. Dissertation Proposal Seminar. 6 Units  
**Prerequisite(s):** Passed Ed.D. Qualifying Examination and instructor permission.  
**Term Typically Offered:** Fall, Spring

Provides faculty and peer guidance in preparation of material to develop the dissertation proposal. Students will be guided in the clarification of dissertation topic, familiarization with relevant literature, and the development of a sound methodology. Students will learn how to critically analyze and provide constructive criticism to key research components proposed by others. At the end students are expected to complete the first three chapters of their dissertation in anticipation of their dissertation defense.

EDD 616. Dissertation I. 6 Units  
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program and instructor permission.  
**Term Typically Offered:** Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.  
**Note:** Students must have passed their qualifying examination and successfully defended their dissertation proposal.

EDD 616A. Dissertation I - Seminar. 3 Units  
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program and instructor permission.  
**Corequisite(s):** EDD 616B.  
**Term Typically Offered:** Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program. This course provides a 3 unit seminar in support of the first phase of the dissertation.  
**Note:** Students must have passed their qualifying examination and successfully defended their dissertation proposal.

EDD 616B. Dissertation I - Research and Writing. 3 Units  
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program and instructor permission.  
**Corequisite(s):** EDD 616A  
**Term Typically Offered:** Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.  
**Note:** Students must have passed their qualifying examination and successfully defended their dissertation proposal.

EDD 617. Dissertation II. 6 Units  
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program and completion of EDD 616 and instructor permission.  
**Term Typically Offered:** Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.

EDD 617A. Dissertation II - Seminar. 3 Units  
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program and instructor permission. EDD 616A.  
**Corequisite(s):** EDD 617B.  
**Term Typically Offered:** Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.  
**Note:** Students must have passed their qualifying examination and successfully defended their dissertation proposal.

EDD 617B. Dissertation II - Research and Writing. 3 Units  
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program and instructor permission. EDD 616B.  
**Corequisite(s):** EDD 617A.  
**Term Typically Offered:** Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.  
**Note:** Students must have passed their qualifying examination and successfully defended their dissertation proposal.

EDD 623. Educational Foundations. 3 Units  
**Term Typically Offered:** Fall only

This course introduces major sociological theories, key education history and policy, current and reoccurring equity debates in education—concepts fundamental to educational leadership, policy, and doctoral research. It includes a survey of seminal theorists, social theory, and its application; key historical events, facts, policies, and decisions that influence and situate contemporary educational practice; and important equity debates, such as segregation and tracking, access and quality, public and private roles, testing and accountability, and others.

EDGR 210. Contemporary Issues in Education: Curriculum and Social Emotional Well Being of Students. 3 Units  
**Term Typically Offered:** Fall, Spring

This course examines contemporary issues in education, with special attention to the social, cultural, political, economic, and institutional dynamics of educational processes and the impacts on students, schools, and communities. Fulfilling the mission of the Masters programs and the College of Education vision, the course focuses on preparing students to become social change agents in schools and communities. Topics covered will fit into the two threads of (a) curriculum and (b) social emotional well-being of students.
EDGR 211. Contemporary Issues in Education: Context of Schooling and Leadership.  3 Units
Term Typically Offered: Fall, Spring
This course examines contemporary issues in education, with special attention to the social, cultural, political, economic, and institutional dynamics of educational processes and the impacts on students, schools, and communities. Fulfilling the mission of the Masters programs and the College of Education vision, the course focuses on preparing students to become social change agents in schools and communities. Topics covered will fit into the two threads of (a) context of schooling and (b) leadership.

EDGR 220. Issues in New Literacies throughout the Lifespan.  3 Units
Term Typically Offered: Fall, Spring
This course examines contemporary issues in literacy. The course introduces students to pedagogies and politics of new literacies within a variety of contexts: academic, new literacy studies, technology literacy, cultural, family, community, and workplace literacy. From a frame of literacy/illiteracy, students examine its connections with economic, political, social, occupational, education, governmental, and cultural change. Students will study how literacy programs are organized and implemented, examine research on the rationale for literacy, including the connection between literacy and healthy, livelihoods, empowerment, community development and cognitive skills.

EDGR 251. Principles of Universal Design for Learning.  3 Units
Term Typically Offered: Fall only
Provides an introduction to the UDL educational framework to explore strategies for educators and course designers to build UDL into lessons and assessments so all participants have equal opportunities to learn. A range of topics in UDL explore ways for practitioners to use the framework as a guide to design flexible curriculum in a variety of disciplines.

EDGR 252. Instructional Design and eLearning Practicum I.  3 Units
Term Typically Offered: Fall only
Provides an opportunity to demonstrate competence in applying concepts from instructional design, project management, and educational technology based on the results of a needs analysis in a field-based setting. Students will design an inclusive instructional intervention and present a model for an online or hybrid eLearning modality. Program project plan provides support for students’ culminating projects/thesis.

EDGR 253. Instructional Design and eLearning.  3 Units
Term Typically Offered: Spring only
This course provides students with experiences to develop the knowledge, skills, and dispositions essential in the design of instruction that involves uses of inclusive technology for learning. Students will develop teaching and learning activities that may include webinars, parts of a course or workshop, online learning, or others with the instructor’s approval. Students will explore and apply instructional design processes, the UDL framework, and theories for analysis, planning, and evaluation of equitable and inclusive learning experiences for diverse audiences.

EDGR 254. Instructional Design and eLearning Practicum II.  3 Units
Term Typically Offered: Spring only
Provides a continued opportunity to demonstrate competence incorporating concepts from instructional design, project management, and educational technology in the field-based program project. Students will develop, incorporate, and evaluate the effectiveness of applying the UDL principles to an instructional intervention. Project plan provides support for students’ culminating projects/thesis.

EDGR 255. Multimedia and Advanced Applications for Inclusive Course Design.  3 Units
Term Typically Offered: Spring only
Examines technology and multimedia as the foundation for inclusive education strategies. Includes the necessity for accessible technology applications, web design, and learning materials. Explore strategies in which technology can be utilized in the development of inclusive learning materials.

EDGR 256. Aligning Culturally Responsive Education and UDL.  3 Units
Term Typically Offered: Summer only
Advanced study of effective and inclusive education design. Examine curriculum design through a culturally responsive lens in digital spaces where a diversity of voices are affirmed. Studies theories of learning, assessment, individual differences, cultural, historical, philosophical, and social/political influences. Students will utilize the UDL framework to anticipate barriers to learning for historically underrepresented communities.

EDGR 257. Culminating Experience in MA in UDEL.  3 Units
Term Typically Offered: Summer only
Student will evaluate the implementation of Program project. Culminating Exam will consist of an ePortfolio organized with program coursework artifacts. Student reflections of educational experiences through various program courses will be included.

EDGR 260. Writing and Research Across the Disciplines.  3 Units
Prerequisite(s): Admission to graduate program in the College of Education or instructor permission
Term Typically Offered: Fall, Spring
Orientation to graduate study design to introduce students to research within their field of study and across disciplines in the College of Education. Overview of qualitative and quantitative methods and basic statistical concepts. Focus on writing to communicate evidence-based knowledge in a professional manner using APA style. Includes research presentations, active discussion, critical reading, and analytical writing with some activities.

Note: This course serves as a foundation for further study and must be taken prior to 250. This course satisfies the GWI requirement.

EDGR 270. Makerspaces.  3 Units
Term Typically Offered: Fall, Spring, Summer
This course examines makerspaces as locales, which are central to “maker” culture. Students will explore the role of makerspaces in local, national and international communities. Specifically, students will conduct critical analysis of the concepts surrounding the rise of “third spaces” in American society to understand the proliferation of makerspaces throughout the United States. Students will also investigate the integration of makerspaces into schooling and vocational practices as they explore ways that makerspaces function to develop 21st century learning and innovation.
EDGR 272. Project-Based Learning and Assessment for Maker Educators. 3 Units
Prerequisite(s): EDGR 270, EDGR 273
Corequisite(s): Practicum
Term Typically Offered: Spring, Summer

In this hybrid course that includes equal parts theory and practical application, students will experience what it is to both complete skill and performance based tasks using a Makers approach and also assess those same tasks through the lens of 21st Century Skills: communication, collaboration, critical thinking, problem solving, creativity and innovation.

EDGR 273. Maker Theory and Practice. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course is an overview of theoretical frameworks that undergird making, the maker movement, and Maker Education. We will examine the ideas and practices associated with educational reforms that emphasize do-it-yourself (DIY) learning and 21st century skill development in high-tech and low-tech environments. Students will critically investigate the connections between theoretical perspectives and applied practices including STEM/STEAM Initiatives, design thinking, critical making, project-based learning, and universal design for learning. Theories that students will explore include: constructivism, constructionism, culturally sustaining pedagogy.

EDGR 274. Practicum for Maker Educators. 3 Units
Term Typically Offered: Spring, Summer

Supervised maker practice in community and/or school setting to be approved by instructor. Practicum emphasizes the function of maker theories in the development and implementation of maker programming. Basic requirements: 200 clock hours with at least 100 hours devoted to practical application of theoretical frameworks in programming and assessment, two hours per week of skill building with maker tools, and one hour bi-weekly of mentoring with practicum supervisor. Prerequisite: EDGR 270, EDGR 272, and EDGR 273.
Credit/No Credit

EDGR 287A. Seminar in Culminating Experience Exploration and Design. 1 Unit
Term Typically Offered: Fall only

Explore and identify potential Culminating Experience project topics in instructional design and/or educational technology trends and issues through surveys of published research, discussions, and presentations with peers and professionals. Compare and contrast existing literature and research, identify trends, recognize real-world best practices, and explore underlying factors contributing or relating to your Culminating Experience topic of interest.
Credit/No Credit

EDGR 287B. Seminar in Culminating Experience Development and Proposal. 2 Units
Prerequisite(s): EDGR 287A
Term Typically Offered: Spring only

Discuss, develop and propose a Culminating Experience project in instructional design and/or educational technology based on prior exploration and identification of topics and issues. Develop program ePortfolio.
Credit/No Credit

EDGR 557. Culminating Experience in MA in UDEL. 3 Units
Term Typically Offered: Summer only

Student will evaluate the implementation of Program project. Culminating Exam will consist of an ePortfolio organized with program coursework artifacts. Student reflections of educational experiences through various program courses will be included.

EDLP 200. Diversity and Equity in Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

Students will engage in reflection regarding equity focused practices and policy throughout educational systems. Students will develop an understanding of how, and ability to lead for a just, equitable, and inclusive educational system.

EDLP 201. Foundations of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

Designed to introduce students to leadership theories and their direct connection to practice in the field of educational leadership. Develops in students the ability to examine various leadership theories, frames, techniques, and lenses that can be used to effectively lead schools and other educational settings.

EDLP 202. School Law and Ethics of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

The study of school law and ethical decision making as it applies to school leadership including federal and state decisions affecting the educational setting.

EDLP 203. Foundations of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

School finance with focus on the State of California school system.

EDLP 205. Instructional Leadership. 3 Units
Term Typically Offered: Fall, Spring

Instructional leadership that focuses on the diverse needs of students through the collection and analysis of data, state standards, accountability systems and culturally relevant pedagogy. Theory and practice will be explored on the best practice of supervisory techniques, classroom observation, and teacher improvement.

EDLP 209. Organizational Systems and Human Resources. 3 Units
Term Typically Offered: Fall, Spring

Students will engage in examination, synthesis, and application of human resources and management practices necessary to effectively serve as school leader in P-12 educational setting.

EDLP 221. Foundations in Higher Education Leadership. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Analyzes higher education including its historical, political, philosophical and social aspects with emphasis upon the implications of crucial issues for leaders in higher education. An examination of the historical origins of contemporary practices and discourse and an analysis of the complex relationships between society and institutions of higher education: patterns of governance and coordination; diversity; overview of organizational and administrative structure; faculty; curriculum; student affairs, policy, and demographic trends.
EDLP 222. Diversity in Higher Education. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Engages participants in a process of inquiry and reflection through self-critique, peer critique, and the dialogical examination of our assumptions, ideas, and understandings that promote intellectual growth. Participants will examine and discuss the literature, research, and discourse concerning theory, policy, and practice about diversity and its relation to higher education.

EDLP 223. Workforce Development Resource Planning, Implementation, and Evaluation. 3 Units
Term Typically Offered: Fall, Spring

Builds on the foundational competencies for workforce education and development professionals. Emphasis is on workforce development planning, analysis, design, implementation, management, and measurement and evaluation processes. Introduces several program planning models and frameworks used in the field of workforce development.

EDLP 224. Advanced Seminar: Dynamics of Organizational Change. 3 Units
Term Typically Offered: Fall, Spring

Students will engage in examination, synthesis, and application of theories of change, organizational problem solving, planning and evaluation and change management. An exploration of administrative roles and responsibilities.

EDLP 225. Advanced Seminar: Ethical Decision Making. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Links analysis with action through a survey of the ethical, legal, and professional issues facing the public or private education administrator. Underlying decision making is to understand the basic nature of the academic enterprise and apply social and moral values to the management of higher education and ethical decision making.

EDLP 226. Workforce Development Professional Competencies. 3 Units
Term Typically Offered: Fall, Spring

Explores the foundational and professional competencies of workforce education and development in the context of educational institutions, business and industry, government, NGOs, and economic development at the national and local/regional level. Examines the research literature pertaining to identification of those competencies that are demonstrated to be critical for professional success as a Workforce Development Professional.

EDLP 227. Leading the Way for Student Success: Student and Instructional Services. 3 Units
Term Typically Offered: Fall, Spring

Participants will explore changing demographics, accountability regarding statewide mandates, reporting regulations, and accreditation, new technology and other factors impacting California's community college student services programs and professionals. Gain an understanding of the philosophy and mission of student services initiatives and programs and student development theory. Examine the role of faculty as leaders in curriculum, instruction and assessment and student success. Understand the purposes and uses of research and technology to address student outcomes, teaching and learning, institutional effectiveness, and decision-making.

EDLP 228. Innovative Leadership: Strengthening Organizational Capacity. 3 Units
Term Typically Offered: Fall, Spring

California higher education leaders are presented with increased legislative and public pressure for accountability while in an era of chronic and disparate under-funding of the system. Understand the relationship between higher education finance and the overall fiscal operations of California's higher education systems.

EDLP 229. Adult Education and Learning. 3 Units
Term Typically Offered: Fall, Spring

Explores the historical and philosophical foundations of the field of adult education and learning. Contemporary applications of adult learning theories and practices are explored to provide a broad understanding of andragogy (the art and science of teaching adults) and how it relates to workforce development and other related fields (e.g., career and technical education, human resource development).

EDLP 230. Master of Arts Thesis/Project Seminar. 3 Units
Prerequisite(s): EDLP 250 and advancement to candidacy.
Term Typically Offered: Fall, Spring

This individualized seminar is designed to extend research knowledge and provide direction in the use of library/professional education resources, as well as exposure to sample theses and projects using APA style. Reviews research methods and a review of the literature and provides instruction in the appropriate academic writing style and format for academic presentation.

Credit/No Credit

EDLP 250. Education Research. 3 Units
Prerequisite(s): Admission into the EDLP Program.
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Establishes and improves students' professional and academic writing skills in preparation for leadership duties. Classified students are encouraged to take this course early in their graduate programs.

Note: Graduate Writing Intensive (GWI) course.
EDLP 255. Field Experience Seminar. 3 Units
Prerequisite(s): Completion of 12 units including EDLP 200, EDLP 201, and either EDLP 205 or EDLP 206A for Preliminary Administrative Services Internship Credential students only.
Corequisite(s): EDLP 401 and/or EDLP 402 for Administrative Services Credential students only.
Term Typically Offered: Fall, Spring
Experience and practice in observation and analysis of school environment, including disaggregated student achievement data.
Note: Intern Students are allowed to take class twice and can take course concurrently with EDLP 401 and EDLP 402.
Credit/No Credit

EDLP 270. Advanced Seminar: Applied Leadership and Staff Teambuilding. 3 Units
Prerequisite(s): Graduate level status within the School of Education and instructor permission.
Term Typically Offered: Fall, Spring
Develop a comprehensive theoretical/conceptual framework from which to view current research surrounding Organizational Leadership and Staff Teambuilding. Special emphasis will be on providing students with experiential learning activities beyond the classroom and incorporate challenging outdoor components. Students will develop a resource portfolio relevant to their unique work situations.

EDLP 273. Advanced Seminar: Grants, Proposals and Systematic Planning. 3 Units
Term Typically Offered: Fall, Spring
Systematic planning theory and skills with particular attention to use of these skills in the development of grant proposals. Students will use funding agency regulations and guidelines relative to program development and implementation, and will develop a proposal which may be submitted to a funding agency.
Credit/No Credit

EDLP 277. Advanced Seminar: Assessment. 2 Units
Prerequisite(s): Admitted into the Professional Administrative Credential.
Term Typically Offered: Fall, Spring
Engage participants in a process of ongoing assessment of their administrative practice as school leaders. Such ongoing assessment uses multiple points of data, multiple sources of information, and multiple feedback sources such as colleagues and mentors.
Credit/No Credit

EDLP 286. Advanced Seminar: Supervision and Leadership. 3 Units
Prerequisite(s): Admission to the Educational Leadership Program, EDLP 206A, instructor permission.
Term Typically Offered: Fall, Spring
Through lecture and discussion, philosophical and practical problems of supervision of instruction will be explored. Current research on effective teaching, staff development, supervisory techniques, and theories of learning for both students and adults will be examined as a basis for sound supervision practices.

EDLP 292. Advanced Seminar: Current Topics in Educational Leadership and Policy Studies. 3 Units
Term Typically Offered: Fall, Spring
Selected current topics of concern to those involved with the administration of schools and other educational systems.
Credit/No Credit

EDLP 293. Induction Seminar. 2 Units
Term Typically Offered: Fall, Spring
Induction Seminar leads to the training experience of the Professional Administrative Services Credential candidate. Facilitates the interaction among candidate, district mentor, and university advisor, per standards of the Commission on Teaching Credentialing. Through guided practice, candidates are prompted and supported in developing an individualized induction plan. This induction plan includes mentoring, academic program at the university and non-campus components.
Credit/No Credit

EDLP 296A. Capstone Research Project. 3 Units
Prerequisite(s): Advancement to Candidacy
Each student conducts an individual project to fulfill the culminating experience graduation requirement. The course covers application of research in education to the professional practice of educational leadership, and integrates the accumulated knowledge, skills and strategies delivered in the program. This course is the culmination of the MA in Educational Leadership/Higher Education Leadership, leading to completion of the final project and the 4-semester degree.
Credit/No Credit

EDLP 299. Special Problems Educational Leadership. 1 - 4 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading.
Note: Departmental petition required. Professional Credential Students only may take up to 8 units.
Credit/No Credit

EDLP 299C. Special Problems-Preliminary Administrative Services Credential. 1 Unit
Term Typically Offered: Fall, Spring
Individual projects for Preliminary Administrative Services Credential candidates at graduate/credential level especially for students capable of independent study. Admission with written approval by the instructor with which the student will be working and the program pathway coordinator.
Note: Students must have failed a CalAPA cycle(s) to take this course. This course may be repeated for up to 3 units of credit.
Credit/No Credit
EDLP 299T. Special Problems - Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students working on their culminating MA requirements.
Note: Departmental petition required.
Credit/No Credit

EDLP 401. Internship On-the-Job Experience. 8 Units
Term Typically Offered: Fall, Spring
First semester of the on-the-job internship experience. Interns are supervised by sponsoring employing agency, as well as by university faculty. Limited to, and required of, internship candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 402. Internship On-the-Job Experience. 8 Units
Term Typically Offered: Fall, Spring
Second semester of the on-the-job internship experience. Interns are supervised by sponsoring employing agency, as well as by university sponsors. Limited to, and required of, candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 403. Internship On-the-Job Experience. 8 Units
Corequisite(s): EDLP 403.
Term Typically Offered: Fall, Spring
Third semester of the on-the-job experience for candidates who have not completed their credential requirements during the first year of internship. (Refer to EDLP 401.) Limited to, and required of, candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 404. Internship On-the-Job Experience. 8 Units
Corequisite(s): EDLP 404.
Term Typically Offered: Fall, Spring
Fourth semester of the on-the-job internship experience. (Refer to EDLP 403.)
Credit/No Credit

EDLP 413. Supplemental Internship Experience. 6 Units
Corequisite(s): EDLP 403.
Term Typically Offered: Fall, Spring
Third semester of the supplemental internship experience. Provides first-hand visitations and experiences in various educational and community agencies at state, county, district, and local school levels; additional supervised experience for candidates; and seminar experiences in observation and analysis of school environments for candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 414. Supplemental Internship Experience. 6 Units
Corequisite(s): EDLP 404.
Term Typically Offered: Fall, Spring
Fourth semester of the supplemental internship experience. Provides first-hand visitations and experiences in various educational and community agencies at state, county, district, and local school levels; additional supervised experience for candidates; and seminar experiences in observation and analysis of school environments for candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 495A. Field Study in Educational Leadership. 3 Units
Term Typically Offered: Fall only
On-the-job experience in which the candidate assumes responsibility for observation and analysis of school environments including leadership responsibilities, supervision of instructional program, and overall school climate.
Credit/No Credit

EDLP 495B. Field Study in Educational Leadership. 3 Units
Term Typically Offered: Spring only
Students will participate in leadership driven field experience at a TK-12 educational setting. The leadership activities will be purposefully planned to ensure the student engages in work that supports their learning as a future/current leader while simultaneously supporting the educational setting with their initiatives.
Credit/No Credit

EDLP 498. Advanced Administrative Field Experience. 8 Units
Prerequisite(s): Admission to Professional Administrative Services Credential Program and full-time employment as a school administrator.
Term Typically Offered: Fall, Spring
Candidates for the Professional Administrative Services Credential are supervised in full-time administrative roles by sponsoring employment agency and university faculty.
Credit/No Credit

EDLP 500A. Master of Arts Thesis/Project. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis or project committee.
Term Typically Offered: Fall, Spring
Completion of a thesis or project approved for the Master's degree.

EDLP 500B. Master of Arts Thesis/Project. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis or project committee.
Term Typically Offered: Fall, Spring
Completion of a thesis or project approved for the Master's degree.

EDS 140. Introductory Behavioral Statistics. 3 Units
Term Typically Offered: Fall, Spring
Descriptive and interpretative statistics in education and allied fields. Use of calculators and statistical tables. Lecture three hours.
EDS 202. Seminar in Neurodevelopmental Disabilities. 3 Units
Term Typically Offered: Fall, Spring
Examines topics and issues in neurodevelopmental disabilities and includes educational, clinical, habilitative, therapeutic, and medical perspectives. Focuses on collaborative, interdisciplinary perspectives on educational and related interventions with students who have neurodevelopmental disabilities.

EDS 203. Seminar for Resource Specialists: Management and Delivery of Services. 3 Units
Prerequisite(s): EDS 201, EDS 101 and Special Education Credential.
Term Typically Offered: Fall, Spring
Review of literature, and simulated experience in the various roles of the resource specialist in special education programs in the schools. Professional problem-solving strategies; standards and procedures; model program organizational alternatives; management approaches of resource specialist program (RSP); major developments and trends at Federal, State and local levels; references to legal provisions, rules and regulations in special education.
Credit/No Credit

EDS 213B. Mathematics Curriculum and Instruction in Inclusive Classrooms. 1 Unit
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential Program or permission of respective special education coordinator.
Term Typically Offered: Fall, Spring
Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 213A) in a setting for students who receive special and/or general education services.
Credit/No Credit

EDS 214A. Social Science Curriculum and Instruction in Inclusive Classrooms. 2 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDS 214B.
Term Typically Offered: Fall, Spring
Prepares mild/moderate/severe and multiple subject teacher candidates to teach history-social science content standards for California public schools to all students, including English Learners and students with disabilities; to use analytical and critical thinking skills in history and social science; and to integrate history-social science topics, themes and concepts with other subject areas. Pedagogical topics include the use of timelines, maps, and artifacts, case studies, simulations, literature, art, multiple perspectives, SDAIE, cooperative projects, and research activities.

EDS 214B. Social Science Curriculum and Instruction in Inclusive Classrooms Lab. 1 Unit
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDS 214A.
Term Typically Offered: Fall, Spring
Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 214A) in a setting for students who receive special and/or general education services.
Credit/No Credit

EDS 215A. Science Curriculum and Instruction in Inclusive Classrooms. 2 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDS 215B.
Term Typically Offered: Fall, Spring
Prepares mild/moderate/severe and multiple subject teacher candidates to teach science content standards for California public schools to all students. Give participants the knowledge of basic principles and strategies related to science education appropriate for general education (k-8) teacher candidates. Participants will also develop, implement, and evaluate science curricula appropriate for those students with mild/moderate/severe disabilities. This includes an expanded treatment of science pedagogy, manipulative, technological supports, accommodations, inclusive instructional techniques, and other strategies specially suited to the instruction of English Learners and students with disabilities.

EDS 215B. Science Curriculum and Instruction in Inclusive Classrooms Lab. 1 Unit
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDS 215A.
Term Typically Offered: Fall, Spring
Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 215A) in a setting for students who receive special and general education services.
Credit/No Credit

EDS 222. Perspectives Workforce Dev. 3 Units
Term Typically Offered: Fall, Spring
Examines the premises of workforce development and advocacy with emphases on adult learning styles and learning communities. Explores the specific needs of the formal and informal vocational, technical and adult learning community in an ever-changing work environment.

EDS 223. Organization Learning Comm. 3 Units
Term Typically Offered: Fall, Spring

EDS 224. WF Assess+Accountability. 3 Units
Term Typically Offered: Fall, Spring

EDS 226. Resource Enhance For WDA. 3 Units
Term Typically Offered: Fall, Spring

EDS 227. Issues Impacting WDA. 3 Units
Term Typically Offered: Fall, Spring
EDS 228.  Sem:Future Workforce Dev.  3 Units
Term Typically Offered: Fall, Spring

EDS 250.  Educational Research.  3 Units
Prerequisite(s): Graduate status
Term Typically Offered: Spring only

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Classified students are encouraged to take this course early in their graduate programs.

EDS 252A.  Advanced Teacher Induction Seminar.  2 Units
Prerequisite(s): Admission to Special Education Level II program.
Corequisite(s): EDS 252B.
Term Typically Offered: Fall, Spring

Leads to the development of a Professional Level II Education Specialist Credential induction plan for the support and professional development of the teacher credential candidate as required by the California Commission on Teacher Credentialing. The candidate, the university advisor, and the employer’s representative work together to plan course work, and provide individual assistance, and professional development opportunities to address individual performance goals. Seminar.
Credit/No Credit

EDS 252B.  Advanced Teacher Induction Seminar Lab.  1 Unit
Prerequisite(s): Admission to Special Education Level II program.
Corequisite(s): EDS 252A
Term Typically Offered: Fall, Spring

Level II candidate, university advisor/supervisor and employer’s representative work collaboratively to develop a professional plan which relates to the CCTC standards and the individual learning needs of the student. The class is designed as a lab to support the acquisition of all proscribed Level II standards and to support the development of the candidate’s professional portfolio for assessment of designated competencies.
Credit/No Credit

EDS 264.  Seminar in Counseling: Work Evaluation.  3 Units
Term Typically Offered: Fall, Spring

Study of the work evaluation process and the modalities utilized, with emphasis on the use of work evaluation in the rehabilitation process.

EDS 265.  Current Issues in Counseling: Disabled.  1 Unit
Term Typically Offered: Fall, Spring

Examination of myths regarding the disabled client. Course includes an exploration of counseling families with a disabled member, the impact of disability upon sexuality and upon interpersonal relationships. Factual data will be presented. The student’s attitude toward the disabled will be examined.
Credit/No Credit

EDS 267A.  Advanced Studies in Special Education-Seminar I.  3 Units
Corequisite(s): EDS 267B.
Term Typically Offered: Fall, Spring

For candidates accepted into the Level II Alternative Option Program; skills for inservice training, working with paraprofessionals, coordinating meetings, developing consensus, dealing with conflict and serving as part of collaborative teams; e-mail, use of Listproc and attendance at monthly seminars required; attaining and documenting competencies and developing portfolios related to outcomes of the Level II Mild/Moderate or Moderate/Severe Specialist Credential. Lecture.

EDS 267B.  Advanced Studies in Special Education Seminar I Laboratory.  3 Units
Corequisite(s): EDS 267A.
Term Typically Offered: Fall, Spring

Will be a synthesis and application of course content (EDS 267A) in a setting(s) for students who receive special education services. The 3-unit lab section requires approximately 90 hours of related field-based and/or on-the-job activities. E-mail/Internet access required.
Credit/No Credit

EDS 268A.  Advanced Studies in Special Education-Seminar II.  3 Units
Corequisite(s): EDS 268B.
Term Typically Offered: Fall, Spring

For candidates accepted into the Level II Alternative Option Program; skills for ongoing individualized assessment and curriculum adaptation to meet needs of diverse populations and advanced skills for behavioral management in inclusive settings; e-mail, use of Listproc and attendance at monthly seminars required; attaining and documenting competencies and developing portfolios related to outcomes of the Level II M/M or M/S Specialist Credentials; individualized planning for candidates who are self-directed and committed to self improvement. Lecture.

EDS 268B.  Advanced Studies in Special Education Seminar II Laboratory.  3 Units
Corequisite(s): EDS 268A.
Term Typically Offered: Fall, Spring

Synthesis and application of course content (EDS 268A) in a setting(s) for students who receive special education services. The 3-unit lab section requires approximately 90 hours of related field-based and/or on-the-job activities. E-mail/internet access required.
Credit/No Credit

EDS 269A.  Collaborative Strategies for Inclusive Practice.  2 Units
Prerequisite(s): CCTC Preliminary Multiple or Single Subject credential.
Sacramento State graduate status or CCE/Open University enrollee.
Corequisite(s): EDS 269B.
Term Typically Offered: Fall, Spring

For candidates seeking to meet Special Education CCTC requirements for Level 2 (Induction) Multiple or Single Subject Teaching Credentials. Candidates must demonstrate skills for ongoing IDEA and State mandates, curriculum adaptation to meet individual needs, and advanced skills for behavioral management in inclusive settings. All activities will be tied to attaining and documenting CCTC Level 2 special education standards through individual portfolios. Assignments will be designed to emphasize an interdisciplinary perspective to collaborative problem solving. E-mail/Internet access required.
EDS 269B. Collaborative Strategies for Inclusive Practice Lab. 1 Unit
Prerequisite(s): CCTC Preliminary Multiple or Single Subject credential. Sacramento State graduate status or CCE/Open University enrollee.
Corequisite(s): EDS 269A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours field). Lab will be synthesis and application of course content in a setting for students who receive special education services. Students will verify experiences across the age-span and in inclusive settings, agencies, and/or other natural environments.
Credit/No Credit

EDS 273A. Instructional Strategies - Mild/Moderate. 2 Units
Prerequisite(s): Admittance into Mild/Moderate Credential or M.A. in Education programs.
Corequisite(s): EDS 273B.
Term Typically Offered: Fall, Spring

Development of knowledge, skills, and strategies for the Mild/Moderate Credential Program area. Students are required to participate in class visitations, student tutoring, and interviews.
Credit/No Credit

EDS 273B. Instructional Strategies - Mild/Moderate - Lab. 1 Unit
Prerequisite(s): Admittance into Mild/Moderate Credential or M.A. in Education programs.
Corequisite(s): EDS 273A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 273A) in developing instructional strategies for the Mild/Moderate Credential Program area. Students are required to participate in class visitations, student tutoring, and interviews.
Credit/No Credit

EDS 280. Foundational Elements of Adult Learning Disability Intervention. 2 Units
Term Typically Offered: Fall, Spring

Explore and analyze the most common social, emotional and psychological problems of adults with learning disabilities (LD) impacting cognition and learning. Topics include: current definitions, characteristics of learning disabilities (LD), the impact of dual diagnosis, and the collaborative role of the LD specialist regarding issues of professional conduct, ethics, and legality. Differences will be examined between LD and other disability categories such as Attention Deficit Disorder (ADD), Acquired Brain Injury (ABI), Developmentally Delayed Learners (DDL), etc.

EDS 281. Assessing Achievement in Adults with Learning Disabilities. 3 Units
Term Typically Offered: Fall, Spring

EDS 282A. Assess Cognitive SKls Adult LD. 3 Units
Term Typically Offered: Fall, Spring

EDS 282B. Assess Cognitive SKl Adult LD II. 3 Units
Term Typically Offered: Fall, Spring

EDS 283. Legal Issues+Adult Learning Di. 1 Unit
Term Typically Offered: Fall, Spring

EDS 285. Strategies to Enhance Academic Skills for Adults with Learning Disabilities. 3 Units
Term Typically Offered: Fall, Spring, Summer

For adults with learning disabilities (LD), compensatory learning strategies are vital tools for success in the post secondary academic arena and beyond. Learn to utilize the most effective teaching and learning strategies and review material and method for teaching adults with disabilities in reading, writing, spelling and mathematics. Topics include: subtypes of learning disabilities; historical as well as current teaching approaches; formal and informal assessment methods; cognitive function as a basis of understanding learning behaviors and learning strategies; and current technologies available to enhance learning opportunities. Learn how to empower adults with LD with the ability to adapt commonly used learning strategies to meet individual needs.

EDS 290. Issues in Early Childhood Education for Children with Disabilities. 3 Units
Term Typically Offered: Fall, Spring

Overview of current theories, research, policies and practices regarding educational services for children, from birth to 8, with disabilities and their families. Topics emphasized include typical/atypical development, interdisciplinary assessment, family involvement, community resources, program planning, mainstreaming, and collaborative case management. Requires observations/field study in settings serving young children with disabilities.

EDS 291A. Technology in Special Education. 2 Units
Prerequisite(s): Admittance to Special Education Program or instructor permission.
Corequisite(s): EDS 291B.
Term Typically Offered: Fall, Spring

Offers an overview of technology usage in special education. Topics covered include: current research; identification of needs of exceptional children that can be met through use of microcomputers; evaluation and prescription of software, hardware and assistive devices; writing computer-assisted instructional programs to meet special needs; time management, and the general implementation of microcomputers into a special education program.

EDS 291B. Technology in Special Education Lab. 1 Unit
Prerequisite(s): Admittance to Special Education Program or instructor permission.
Corequisite(s): EDS 291A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be synthesis and application of course content (EDS 291A) in technology usage with students who receive special education services. Credit/No Credit
EDS 332. Assessment Center Laboratory for Multiple Subject Candidates. 2 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education instructor.
Corequisite(s): EDSP 420B or approved equivalent by assigned advisor or department chair.
Term Typically Offered: Fall, Spring

Individual support to guide multiple subject candidates through the process of completing and submitting the culminating PACT Teaching Event and completion of their electronic portfolio. The signature assignments, formative PACT assessments and summative PACT Teaching Event represent a working electronic portfolio embedded throughout the credential program, and the summative component will be polished and formally submitted at the conclusion of the EDS 332.
Credit/No Credit

EDS 412. Student Teaching: Moderate/Severe. 5 - 10 Units
Corequisite(s): EDSP 233. A total of 10 units is required.
Term Typically Offered: Fall, Spring

Students teaching in a cooperating LEA/District providing services for students receiving Moderate/Severe special education program services. Candidates must meet the criteria for student teaching to be accepted to this course.
Note: Approximately 320 hours are required to meet competencies.
Credit/No Credit

EDS 439B. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year coursework and EDS 439A Graded: Credit / No Credit Units: 1.0 -10.0
Term Typically Offered: Fall, Spring

Advanced fieldwork experience providing the opportunity for students to engage in the following activities: individual and group counseling; consultation with teachers, parents, and other school staff, and assessment of students. Students will work under the supervision of a credentialed school psychologist. A faculty supervisor from the School Psychology Training Program will work with students and field supervisor.
Credit/No Credit

EDS 460. Practicum in Individual Counseling/VRC. 3 Units
Prerequisite(s): Approval as a candidate in the Vocational Rehabilitation program; approval of advisor; and department petition.
Term Typically Offered: Fall, Spring

Supervised practice in individual counseling.
Credit/No Credit

EDS 461. Field Study in Counseling/VRC. 3 - 15 Units
Prerequisite(s): Approval as a candidate in the Vocational Rehabilitation program, completion of core courses except EDS 560, EDS 561, or Comprehensive Examination (oral or written), approval of advisor, and department petition.
Term Typically Offered: Fall, Spring

Directed field study for rehabilitation counselors. Supervised experiences are arranged in rehabilitation counseling. Forty hours of experience required for each unit of credit.
Credit/No Credit

EDS 472E. Student Teaching: Serious Emotional Disturbance. 10 Units
Corequisite(s): EDS 277.
Term Typically Offered: Fall, Spring

Students will be placed in approved settings which serve students with serious emotional disturbance as a primary disability; be expected to demonstrate skills for instruction across content areas; interact with emotionally disturbed students using a combination of counseling and behavior management strategies; and consult with families, co-workers, mental health representatives and other in a collaborative style.
Credit/No Credit

EDS 530. Project In WDA I. 2 Units
Term Typically Offered: Fall, Spring

EDS 531. Project In WDA II. 4 Units
Term Typically Offered: Fall, Spring

Certificate in Maker Education

Program Description

The Certificate in Maker Education program engages students in a 12 credit program designed to develop critical knowledge of making, the maker movement, and Maker Education. We will examine ideas and practices associated with educational reforms that emphasize making as an ethos of interest driven do-it-yourself (DIY) learning and culture. Students will investigate the knowledge, skills, and dispositions associated with 21st century skill development in makerspaces as formal and informal learning environments, and the development of “maker culture” in local, national, and international communities.

Admission Requirements

A 2.5 GPA in the last 60 semester or 90 quarter units completed in the undergraduate degree is required for admission. This is a graduate-level certificate program and students must maintain a grade point average of 2.5 or higher to remain in good standing in the program.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDGR 270</td>
<td>Makerspaces</td>
<td>3</td>
</tr>
<tr>
<td>EDGR 272</td>
<td>Project-Based Learning and Assessment for Maker Educators</td>
<td>3</td>
</tr>
<tr>
<td>EDGR 273</td>
<td>Maker Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDGR 274</td>
<td>Practicum for Maker Educators</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

Note: Successful completion of the certificate requires students to receive a 2.5 or higher GPA in all courses.

Certificate of Competency in Educational Technology

Total units required for Certificate: 12

Program Description

A graduate student may earn a certificate in Educational Technology by completing four 3-unit courses. These courses provide the competencies needed by teachers, trainers, or curriculum specialists to integrate
technology into the curriculum, scaffold its inclusion in instruction, and disseminate that knowledge via appropriate staff-development needs.

Minimum Grade Requirement
Minimum required GPA: 3.0 for all courses in the certificate program.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTE 232</td>
<td>Educational Applications of Computers</td>
<td></td>
</tr>
<tr>
<td>EDTE 233</td>
<td>Teaching Problem-Solving with Educational Technology</td>
<td></td>
</tr>
<tr>
<td>EDTE 234</td>
<td>Curriculum and Staff Development with Educational Technology</td>
<td></td>
</tr>
<tr>
<td>EDTE 235</td>
<td>Enhancing Curriculum with Multimedia and the Web</td>
<td></td>
</tr>
<tr>
<td>EDLL 200</td>
<td>Practicum in Decoding and Fluency: Assessment and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 201</td>
<td>Practicum in Comprehension: Assessment and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 203</td>
<td>Teaching and Assessing Writing in the Pre-K through 12 Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 205</td>
<td>Psychology and Sociology of Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Certificate of Competency in Mathematics Education
Total units required for Certificate: 12

Program Description
A graduate student may earn a Certificate in Mathematics Education by completing the following courses. Enrollment in the Master’s program is not required provided that admission requirements are met, including having a teaching credential or being enrolled in a credential program.

Certificate of Competency in Teaching Reading to Adults
Total units required for Certificate: 15

Program Description
The Certificate in Teaching Reading to Adults (TRA Certificate) provides professional preparation and training in the theory and practice of teaching reading to adults. A combination of coursework in reading theory and pedagogy with teaching and/or tutoring experience provides the competencies and skills necessary to teach reading to adults. The program is designed for graduate candidates who expect to teach in community college or adult education settings.

Eligibility Requirements
- Candidates must either be in a graduate degree program at Sacramento State or must apply for graduate admission to the University. Once admitted to Sacramento State, prospective TRA
Certificate candidates must apply to the Certificate Coordinator for admission to the program.

- Candidates must take the Writing Placement for Graduate candidates (WPG) or take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secure approval for a WPG waiver.
- International candidates must have a TOEFL score of 600 or higher (or a score of 250 or higher on the computerized TOEFL) and a score of 5 on the Test of Written English.

For further information, contact the Certificate Coordinator, Calaveras Hall 138, (916) 278-6197.

Minimum Grade Requirement
The reading certificate requires 15 units of coursework with a minimum GPA of 3.0.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>EDLL 205</td>
<td>Psychology and Sociology of Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 207</td>
<td>Advanced Practicum in Reading Difficulties: Assessment and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 215A</td>
<td>Reading/Vocabulary Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>EDTE/ENGL 225C</td>
<td>Theoretical Issues in Adult Literacies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 410L</td>
<td>Internship in Teaching Adult Reading</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 15

Doctorate in Education (Ed.D.)

Total units required for Doctorate: 60

Program Description
The Doctoral Program in Transformational Leadership is an award-winning Ed.D. program that represents a dynamic collaborative effort between the Educational Leadership and Policy Studies Program in the College of Education and the Department of Public Policy and Administration in the College of Social Sciences and Interdisciplinary Studies. This program connects theory to practice for the purposes of impacting educational systems.

Our degree focuses on preparing administrative leaders for California public elementary and secondary schools and community colleges and on the knowledge and skills needed by administrators to be effective leaders in California public schools and community colleges.

Our Cohort-based program is designed for working professionals, and classes are offered on Friday nights and Saturdays. Groups of students are admitted each year and take courses together. This creates several distinct advantages of group membership during graduate study which are intentionally fostered in the program:

- Cohorts offer support to candidates and provide opportunities for members to learn from one another.
- Cohorts establish professional ties that often last beyond the doctoral program itself; such networks are valuable in terms of continued professional support and growth.
- Fostering and monitoring candidates’ progress is enhanced in cohorts. The group carries with it the expectation that all but the occasional candidate will complete the program successfully, including such standard benchmarks as the qualifying examination, advancement to candidacy, and completion of the dissertation.

Admission Requirements
The Ed.D. Program admits candidates who meet the academic requirements for the Ed.D. degree program and who possess personal qualities and professional experiences that suggest a strong potential for success as doctoral candidates and as educational leaders in preK-12, community colleges, and higher education.

Applicants must have:

- An earned baccalaureate degree and master’s degree or the equivalent from an accredited institution of higher education with a grade point average in upper division and graduate study of 3.0 or above;
- Sufficient preparation and experience pertinent to educational leadership and a commitment to educational equity and racial justice;
- Demonstrated educational leadership potential and skills including successful experience in school, postsecondary, community, and/or policy leadership;
- Advanced writing and criticality to analyze literature and formulate a research agenda;
- Demonstrated academic excellence, problem-solving ability, and an interest in assessing and bringing about improvements within current educational policies and practices.

Admission Procedures
Applicants must complete a university application by the posted application deadline date for the term applying. For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/). Prospective doctoral students must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

Please note: The GRE requirement is suspended. If applicants send in GRE scores, the scores cannot be taken into consideration when making admissions decisions.

A complete application includes:

- An online application that can be accessed at Cal State Apply (https://www2.calstate.edu/apply/)
- Statement of Purpose
- Essay Responses
- Writing Sample
  - Important Note: Your writing in all cases should be your own original work and may not be written, in part or in whole, by a third party. The admissions committee will carefully consider both the content and the writing in its assessment of your candidacy for graduate study at Sacramento State University.
- Resume or CV detailing education and professional experience
- Statement of Support: A brief statement of support for your doctoral studies from your employer.
- Unofficial Transcripts: Upload one set of unofficial transcripts from all colleges and universities attended
- Letters of Recommendation: Three letters of recommendation attesting to the leadership ability and scholarship of the candidate
- Official Transcripts: Send one set of official transcripts from all colleges and universities attended, other than Sacramento State;
fail to maintain a grade point average of 3.0, the student would be notified and counseled regarding requirements for satisfactory progress toward the degree. Systemwide criteria of satisfactory academic progress are provided in Appendix 5, Title 5 of California Code of Regulations: The Doctor of Education Degree §40512(c).

Students who need to take a leave of absence are typically provided two options. One is to take extra coursework to make up courses missed and return to their original cohort. The second is to join a later cohort that, at the time they return, is taking the classes that they missed. If a student goes on an approved leave of absence and a course is not offered upon their return, a modified version of the course can be offered as a substitute through independent study or a course substitution may be made, depending on the course requirement.

Criteria for Continuation in the Program

Students must maintain at least a 3.0 cumulative grade point average in the program and not have a grade point average below 3.0 in any two successive terms to be considered in good academic standing. They must also meet all the requirements of graduate students outlined in the University Catalog.

Students who fall below a 3.0 grade point average in any one term will be placed on academic probation and notified of this in writing. Students who fail to make satisfactory academic progress may be officially disqualified from the program in writing in accordance with policies established by the campus and based upon the recommendation of the Ed.D. Program faculty.

To ensure that a decision to disqualify a student because of unsatisfactory academic progress is just, basic due process requirements will be met. Faculty will conduct a thorough review and consultation and will provide a written recommendation by the Ed.D. Program Director to the Graduate Division. The student may appeal the decision. A student who has been disqualified from the program will not be allowed to continue in the Ed.D. Program, enroll in doctoral level courses in the program, or register again in the Ed.D. Program without a formal application and re-admission to the University.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDD 600</td>
<td>Transformational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDD 602</td>
<td>Policy and Practice for Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td>EDD 623</td>
<td>Educational Foundations</td>
<td>3</td>
</tr>
<tr>
<td>EDD 604</td>
<td>Introduction to Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDD 607</td>
<td>Community and Communication in Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDD 608</td>
<td>Diversity and Equity in Complex Organizations</td>
<td>3</td>
</tr>
<tr>
<td>EDD 609</td>
<td>Human Resource Management for Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td>EDD 605</td>
<td>Qualitative Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDD 610</td>
<td>Curriculum and Instruction Issues for Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td>EDD 601</td>
<td>Organizational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDD 603</td>
<td>Policy and Practice for Educational Leaders II</td>
<td>3</td>
</tr>
<tr>
<td>EDD 606</td>
<td>Quantitative Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDD 613</td>
<td>Finance and Budget for Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td>EDD 615</td>
<td>Dissertation Proposal Seminar</td>
<td>6</td>
</tr>
</tbody>
</table>
Ed.S. in School Psychology

Total units required for Ed.S.: 100-107

Program Description

The Specialist in Education, School Psychology (Ed.S.) is an advanced degree that requires students to have completed both the Master of Arts (MA) in School Psychology or its equivalent, and the Pupil Personnel Services School Psychology Endorsement Credential. Completion of the Ed.S. requires additional coursework (beyond the MA and Credential requirements) focused on identifying and addressing school-related issues that arise during school psychology practice. The School Psychology program at CSUS is approved as a Specialist level program by the National Association of School Psychologists.

Note: If students are to graduate under the provisions of this catalog, they must maintain continuous enrollment from the date of classification to the date of graduation. Students who are planning to be absent for more than one semester must file a Leave of Absence request and have it approved prior to the absence.

Admission Requirements

Admission as a classified graduate student in the Specialist in Education (Ed.S.): School Psychology, requires:

- a baccalaureate degree
- a minimum 3.0 overall grade point average (if GPA is below 3.0, student may be accepted conditionally)
- proficiency in written English composition as demonstrated by either passing the California State University, Sacramento, Writing Placement for Juniors exam or equivalent, or passing ENGL 109W (or its equivalent) with a grade of C or better
- satisfying the Basic Skills Requirement (or having registered for the CBEST examination). For more detailed information, visit the CTC website (https://www.ctc.ca.gov/credentials/leaflets/cl667.pdf).

Example of ways to satisfy Basic Skills Requirement include:

a. Pass the California Basic Educational Skills Test (CBEST)
b. Pass the CSET Multiple Subjects plus Writing Skills examination
c. Pass the CSU Early Assessment Program (EAP) or the CSU Placement Examinations
d. Achieve qualifying score on the SAT or ACT (see the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/))

- score a 3 or above on specific AP examinations (see the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/))
- earn a grade of “B” or better in specific college or university courses as detailed on the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/).
- completion of prerequisite courses addressing the following topics or their equivalents (contact a school psychology advisor for more information on equivalent experiences):
  a. Abnormal psychology
  b. Introduction to counseling
  c. Descriptive statistics
  d. Issues of diversity

- experience working with diverse learners in a K-12 school setting (30 hours minimum, which includes work with special needs students)
- completion of a course in applied psychometrics/psychological testing/psychological measurement is recommended

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a Prerequisite Guidance Form and must be resolved before advancement to candidacy (typically within the first year of full time study).

Admission Procedures

All students must file the following with the Sacramento State Office of Graduate Studies, River Front Center 215, (916) 278-6470:
- an online application via Cal State Apply for admission; and
- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines, visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

In addition, each applicant must complete a separate application for admission to the School Psychology Program:
- the program’s application is available online (http://www.csus.edu/coe/apply/graduate.html);
- two letters of reference (references will submit letters online);
- one set of transcripts;
- evidence of experience working or volunteering in schools and/or working with youth;
- evidence of knowledge of the profession of school psychology;
- evidence of strong written communication skills (obtained via writing samples);
- evidence of strong oral communication skills (obtained via an interview with a current school psychology graduate student, practicing school psychologist, and core school psychology faculty member).
Department applications are due by February for admission the following Fall Semester. Applications are only accepted and processed once per year, during spring semester for admission the following fall.

Minimum Units and Grade Requirements for the Degree
Units required for the Ed.S.: 100-107

Minimum Cumulative GPA: 3.0. No single course in which a student receives a grade below "B-" will be counted as credit toward the degree unless the student has petitioned for acceptance of the course, and the petition has been accepted and approved by School Psychology Program faculty.

Note: A minimum of 21 of these units must be taken in residence at California State University, Sacramento. Use of extension courses must be approved by the advisor. Enrollment in Special Problems (EPSY 299) will only be granted under exceptional circumstances.

Advancement to Candidacy
Students must advancement to candidacy prior to enrolling in EPSY 239 and EPSY 540 or EPSY 542. School psychology students are typically automatically advanced to Ed.S. degree candidacy upon completion of their MA in School Psychology (having already completed Advancement to Candidacy Forms before earning the MA in School Psychology).

Students who already hold an appropriate master’s degree at the time of admission to the School Psychology Program, and who do not want to earn a second master’s degree, but do wish to earn the Ed.S degree must file an application for Advancement to Candidacy, indicating a proposed program of study. This procedure should begin (typically as soon as the end of the first year in the program) as soon as the classified graduate student has:

- been assigned an advisor;
- removed any deficiencies in admission requirements;
- completed 24 units of School Psychology Program coursework content knowledge elective units with a minimum 3.0 overall GPA; and
- completed the Graduate Writing Assessment Requirement (GWAR) by passing EPSY 201, Legal Aspects of Special Education, with a grade of "B" or higher.

Advancement to Candidacy forms are available in the Department office and on the Office of Graduate Studies website. The student fills out the form after planning the a degree program in consultation with a faculty advisor and approved by the Graduate Coordinator. The completed form is then returned to the Office of Graduate Studies for approval. Note deadline dates posted by the Office of Graduate Studies for submission of this form.

Culminating Experience Requirements
Enrollment in the Ed.S. Seminar (EPSY 239) and the Ed.S. Thesis (EPSY 540) or Ed.S. Project (EPSY 542) courses require students to file and have approved a Reservation Form, for these courses the semester before intended registration. This program follows the guidelines provided by the American Psychological Association’s most current edition, for formatting of projects and thesis. The office of Graduate Studies, River Front Center, Room 215, (916) 278-6470, offers formatting guides and templates on their website.

Graduation Procedures
Prior to graduation, an application for graduation must be filed in the Office of Graduate Studies by the specified deadline. All course work leading to this degree must be completed within a seven year period. Be sure to attend to deadline dates posted by the Office of Graduate Studies for submission of this form.

Program Requirements

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPSY 201 Legal Aspects of Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 231 Group Process in School Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 221 Equity Considerations for School Psychologists</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 245 Psychology In The Schools</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 248 Human Development and Learning</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPSY 250 Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 241 Counseling and Psychotherapy for School Psychologists</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 242A Cognitive Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 242B Cognitive Assessment Lab</td>
<td>4</td>
</tr>
<tr>
<td>EPSY 440 Practicum in Individual Counseling/School Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPSY 240 Functional Assessment of Behavior</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 243A Assessment Practicum A</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 244 Social, Emotional and Behavioral Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 246A Preventive Academic Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 439A Early Fieldwork in School Psychology</td>
<td>1 - 10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Semester</th>
<th>Units</th>
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<tbody>
<tr>
<td>EPSY 243B Assessment Practicum</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 246B Preventive Mental Health Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 247 Assessment of Special Needs</td>
<td>3</td>
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<tr>
<td>EPSY 439B Early Fieldwork in School Psychology</td>
<td>1 - 10</td>
</tr>
<tr>
<td>EPSY 249 Special Seminar: School Psychology</td>
<td>1 - 3</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Fifth Semester</th>
<th>Units</th>
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<tbody>
<tr>
<td>EPSY 239 Education Specialist Seminar</td>
<td>3</td>
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<tr>
<td>EPSY 441A Internship in School Psychology</td>
<td>3 - 15</td>
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<table>
<thead>
<tr>
<th>Sixth Semester</th>
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</thead>
<tbody>
<tr>
<td>EPSY 441B Internship in School Psychology</td>
<td>3 - 15</td>
</tr>
<tr>
<td>EPSY 540 Education Specialist Thesis: School Psychology</td>
<td>4 - 6</td>
</tr>
</tbody>
</table>

| Total Units | 68-114 |
For students who were awarded an appropriate master's degree before beginning the Ed.S. in School Psychology Program, a faculty approved 3 unit elective will be substituted for EPSY 249 or EPSY 541.

MA in Education (Curriculum and Instruction)

Total units required for MA: 30

Program Description

The Master of Arts in Education (Curriculum and Instruction) is designed to provide professional and specialized preparation for the candidate interested in acquiring knowledge and skills essential for the design and development of curriculum and related instructional practices. The program provides a variety of options for educators to develop and enhance expertise in a particular field of interest related to elementary, middle school, and secondary education. Each course is designed to produce an ideal blend of theory, research and practice in modern, diverse educational settings. The program is committed to exploring critical intellectual questions of contemporary education. Program instructors bring varied levels of expertise with advanced degrees from major research universities and classroom experience in K-12 and higher education settings.

Students may apply to either a stateside traditional cohort or a College of Continuing Education online cohort. The traditional cohort will meet face-to-face. The online cohort will meet approximately 25% synchronously (real time) and 75% asynchronously (your own schedule within a given timeframe). During the synchronous sessions students will participate in community development, collaboration, and communications that will allow them to get to know their peers and instructors and facilitate instructional delivery suited to an online format. During asynchronous sessions students will build on learning experiences acquired in the synchronous sessions while deepening the knowledge, skills and dispositions that emerge with reflective, “on your own schedule” participation. Students in the online cohort will complete six units of coursework during the summer term as part of the condensed format.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units;
- proficiency in written English composition as demonstrated by either passing the Sacramento State Writing Placement for Juniors exam or equivalent, or enrolling in ENGL 109W passing with a grade of C or better; and
- an interview with a program administrator/faculty team;

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

The stateside traditional program admits a cohort of students in fall only. The online program offered through the College of Continuing Education admits a cohort of students in fall and/or spring. Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 86) section of the University Catalog.

Specific Additional Admission Requirements

General Admission Requirements/Procedures for MA in Graduate & Professional Studies in Education (GPSE) apply, plus:

- supplemental application for the MA in Curriculum & Instruction, including a complete set of unofficial transcripts, an essay based on a prompt that will be provided to you, and a statement of purpose; and
- two years of teaching experience or its functional equivalent; or program coordinator approval.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified status. Any deficiencies will be noted on a written response to the student’s admission application.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum cumulative GPA: 3.0; no units with a grade lower than "C" may apply toward the degree.

General Advancement to Candidacy Procedures

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission;
- completed at least 12 units of courses in the graduate program (see Degree Requirements) with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework.

Advancement to Candidacy forms are available online through the Office of Graduate Studies website (http://www.csus.edu/gradstudies/forms/). The student fills out the form after planning a degree program in consultation with the appropriate M.A. Program Coordinator. The form must be submitted online with the Office of Graduate Studies for approval.

Approved Culminating Experience Format: American Psychological Association (APA) - Latest edition. Before beginning a 500-level course, students must submit a reservation form for a Culminating Experience to the program coordinator for approval.

Enrollment in the 500 series Culminating Experience is for one semester. The expectation is that students will complete the culminating
experience during the 500-level course. One semester of continuous enrollment is allowed if the Culminating Experience advisor deems a reasonable amount of progress has been made and assigns a grade of "RP" for the 500 series. If students fail to make adequate progress and there are no mitigating circumstances (e.g., illness), a grade of "no credit" is given, and the student must re-enroll in the appropriate 500 series Culminating Experience.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Courses (21 Units)</strong></td>
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<tr>
<td>EDBM 250</td>
<td>Education Research ↩️</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 227</td>
<td>Transforming Curriculum in K-12</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 251</td>
<td>Power in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 252A</td>
<td>Inquiry &amp; Practice in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 253A</td>
<td>Action &amp; Analysis in Education</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Concentration Courses (6 Units)</strong></td>
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<tr>
<td>EDCI 252B</td>
<td>Inquiry &amp; Practice Field Experience in Education</td>
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<tr>
<td>EDCI 253B</td>
<td>Action &amp; Analysis Field Experience in Education</td>
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<tr>
<td></td>
<td><strong>Other Course Requirements (6 Units)</strong></td>
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<tr>
<td></td>
<td>Select 6 units of electives ¹</td>
<td>6</td>
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<td></td>
<td><strong>Culminating Requirement (3 Units)</strong></td>
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<tr>
<td>EDCI 505</td>
<td>Culminating Experience: Curriculum and Instruction ²</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

¹ Six elective units in Curriculum and Instruction coursework are to be selected by the student in consultation with the Curriculum and Instruction Program Coordinator. Students may focus their elective units in a program of their interest or select courses from various programs. At least three of the elective units must be at the 200 level. Examples of Curriculum and Instruction elective programs include: Educational Technology, Mathematics Education, Language and Literacy, Multicultural Education, Gender Equity, BTSA or other pre-approved induction courses. With C & I Program Coordinator approval, program courses may include one of the following:

- 6 transfer elective units (must not be independent study or supervision units)
- 6 units of academic credit earned through Continuing Education

² Open only to the graduate student who has been advanced to candidacy for the master’s degree and has secured the permission of his/her Culminating Experience Chair and the Curriculum and Instruction Program Coordinator. All forms may be obtained on the Office of Graduate STUDIES (OGS) website. Credit is given upon completion of a university-approved project consisting of an ePortfolio that includes an action research report, supporting materials such as curriculum and/or student work, and a poster presentation evaluated by a faculty committee. With prior approval a master’s thesis may be substituted for the action research report.

Minimum required GPA: 3.0; no units with a grade lower than "B" may apply

**Program Description**

The Master of Arts in Educational Technology (iMET) is a unique fully online program which has 2-3 optional face-to-face program and class meetings each semester. It is a rigorous 24 month program focusing on a full-range of instructional design and academic technology knowledge, skills, and dispositions. Instruction is centered on the learner and on what is required of teachers or trainers in today’s technologically-rich learning environment. Coursework is project-oriented, utilizing eportfolios focusing on reflective learning practices and review by peers and colleagues.

The iMET program is designed to support students who want to develop their understanding of learning with technology and advance their ability to teach and design instruction involving the use of technology. Students will be able to design, create, present and evaluate instruction and learning for various types of education environments including for private industry and K-12 and higher education environments. Coursework focuses on learning theories, instructional design models, effective instruction, assessment, educational technology, multimedia tools and strategies, research and scholarship, leadership, project management, professional development, and socio-cultural aspects in education.

Students focus on developing their Culminating Experience project connecting content learned throughout the program courses with their final project. Guidance is provided by advisors through courses on an individual basis connecting students with experienced practitioners. This program is currently offered only in cohort groups. Check with the Department (https://www.ccsu.edu/master-arts-universal-design-elearning/) or (916) 278-6155 for the next start date.

**Admission Requirements**

Admission as a classified graduate student requires:

- a baccalaureate degree;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as by meeting the requirements set by the University Office of Graduate Studies;
- international students must meet Office of Graduate Studies (OGS) requirements for International students, which are available on the OGS website (https://www.csus.edu/graduate-studies/).

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student’s admission application.

**Admission Procedures**

Information to apply for prospective graduate students is available on the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/) (916) 278-6470, which will include the following

1. online application procedures for admission
2. information to apply to a Sacramento State graduate program
3. specific program application procedures in addition to apply to a graduate program at Sacramento State are available on the College of Education Department of Graduate and Professional Studies website
4. To be admitted to a College of Education graduate program both #2 and #3 above must be complete, meeting the general admission
indicating a proposed program of graduate study. This procedure should
Each student must file an application for Advancement to Candidacy

General Advancement to Candidacy Procedures

Specific Additional Admission Requirements

General Admission Requirements/Procedures for MA in Education apply, plus:

- a minimum 3.0 overall GPA in the last 60 units attempted; potentially waived on approval of the Program Coordinator and Department Chair
- applicants should have an intermediate level of educational technology knowledge and proficiency
- an approved statement of purpose that addresses:
  a. why the applicant wants to enter this particular program which would include:
     i. an example of a successful experience you have had in using technology for learning or
     ii. an example of a work experience where you helped lead or support others in using technology for teaching or learning, including a description of your level of involvement, and
     iii. what you believe to be optimal ways that technology can successfully be used for teaching or learning
  b. career objectives
     i. applicants must be proficient in using the Internet and have accessible Internet access to meet the requirements of a fully online program

Minimum Units and Grade Requirement for the Degree

- Units required for the MA: 30
- Minimum cumulative GPA: 3.0; no units with a grade lower than "B" may apply toward the degree

Program Costs

- Information on Tuition Fees and Campus Fees is made available on the University website.
- Note: There is an additional Distance Learning Technology Fee of $40 per unit for the iMET Program courses.

General Advancement to Candidacy Procedures

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission;
- completed at least 12 units of courses in the graduate program (see Degree Requirements) with a minimum 3.0 GPA; and
- fulfilled the “Graduate Writing Assessment Requirement (GWAR).”

Requirements for the GWAR are available on the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/). (https://www.csus.edu/graduate-studies/)

- Information to complete the Advancement to Candidacy forms is available online and will be provided through the Program Coordinator. The Advancement to Candidacy entails the degree program in consultation with the appropriate M.A. Program Coordinator. A completed form must be submitted to the Program and Department for approval and to the Office of Graduate Studies for approval.

Approved Master’s Thesis/Project Format: American Psychological Association (APA) - Latest edition. Before beginning the 500-level course to complete a Project, Action Research, or Thesis, students are required to have an approved Culminating Experience Proposal on file in the Department office. Dates for completing the form are announced by the Program Coordinator.

Note: A completed Proposal requires the approval of the Culminating Experience Chair as well as Human Subjects approval if needed. The proposal and accompanying Protection of Human Subject forms must be reviewed by the EDTE Graduate Coordinator and approved by the Department and University Human Subjects Review Committee.

Enrollment in the 500 series Culminating Experience is for one semester. The expectation is that students will complete the thesis/project during the 500-level course. Continuous enrollment is allowed if the Culminating Experience Chair deems a reasonable amount of progress has been made as per the timeline in the Proposal and assigns a grade of “RP” for the 500 series. If students fail to make adequate progress according to their Proposal timeline, a grade of “no credit” is given, and the student must re-enroll in the appropriate 500 series Culminating Experience.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTE 2501</td>
<td>Educational Research for IMET 1</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 2511</td>
<td>Education in Democratic, Pluralistic Society for Educational Technology 1</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 280A</td>
<td>Fundamentals of Online Pedagogy &amp; Instructional Design 1</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 280B</td>
<td>Instructional Design 1</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 283</td>
<td>Staff Development and Presentation Applications 1</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 284</td>
<td>Problem Solving and Project Development</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 286</td>
<td>Special Topics in Educational Technology 1</td>
<td>3</td>
</tr>
<tr>
<td>EDGR 287A</td>
<td>Seminar in Culminating Experience Exploration and Design</td>
<td>1</td>
</tr>
<tr>
<td>EDGR 287B</td>
<td>Seminar in Culminating Experience Development and Proposal</td>
<td>2</td>
</tr>
<tr>
<td>EDTE 298</td>
<td>Capstone 1</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 507</td>
<td>Culminating Experience: Educational Technology 2</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 30

1 These courses must be taken as part of the Educational Technology cohort. The Educational Technology coursework is integrated into these courses. Requires acceptance into Master of Arts (Educational Technology); not open to students who have not been admitted to the program.

2 Credit is given upon completion of a thesis, project or other approved culminating experience for the Master of Arts in Education (Educational Technology). Open only to the graduate student who has been advanced to candidacy for the master’s degree and has secured the permission of the Educational Technology Program Coordinator.
MA in Education (Higher Education Leadership)

Total units required for MA: 30

Program Description

Educational Leadership and Policy Studies aims to develop TK-12, higher education, and workforce development leaders from diverse backgrounds who will positively impact all educational settings. The program specifically focuses on cultivating leaders who promote learning, equity, social justice and achievement for all students. Educational Leadership and Policy Studies seeks to prepare transformational leaders with the capacity to effectively facilitate and manage change.

Admission Requirements

Admission as a classified graduate student in Higher Education Leadership requires:

- Completion, and successful review, of Cal State Apply and program Supplemental application
- Successful interview with faculty, demonstrating
  - Preparation for graduate level study
  - Professional experience at any level in higher education
  - Some leadership experience
  - Familiarity with current issues in education
  - Knowledge of conflict resolution and negotiation skills
  - Knowledge of higher education as a field
  - Entry level understanding of ethical leadership
  - Vision for P-16 education

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Specific Additional Admission Procedures

Each applicant must forward the following to the Educational Leadership and Policy Studies Department in the College of Education:

- the Educational Leadership and Policy Studies application for admission
- the supplemental application (can be found on the Apply | Sacramento State (csus.edu) (https://www.csus.edu/college/education/masters-programs/apply.html) page)
- two letters of reference (forms attached to application packet); and
- one set of transcripts, including Sacramento State (these need not be official).

Approximately two weeks after the deadline for submission of application materials to the Department, each applicant will be scheduled for an interview. Approximately two weeks after all applicants have been interviewed, a decision regarding admission will be mailed to each applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0. Only units with a grade "C" or better may be counted.

Notes:

- This graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the "Graduate Studies" and the "Educational Leadership and Policy Studies Department" sections of this catalog.
- All work must be completed within a 7-year period
- 30 units required for the MA, including at least 21 units in approved Educational Leadership courses. Up to six units, including extension credit, can be transferred from another university (if current and not used toward another degree); a minimum of 21 units must be taken in residence

Advancement to Candidacy

Each student working toward a Master’s degree must file an application for Advancement to Candidacy for the degree; the application is a form on which the student indicates a proposed program of graduate study. The student must be advanced to candidacy the semester prior to enrolling in EDLP 230. The procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the Educational Leadership and Policy Studies graduate program with a minimum 3.0 GPA; and
- completed a Graduate Writing Intensive (GWI) course in their discipline with a "B" or better; within the first two semesters of coursework at California State University, Sacramento.

Advancement to candidacy forms are available on the Office of Graduate Studies website or the GPSE Department Office. The student fills out the form after planning a degree program in consultation with his/her Educational Leadership faculty advisor. The completed form is returned to the GPSE Graduate Coordinator for approval and then submitted to the Office of Graduate Studies.

Notes:

- Thesis/Projects: Students must file a petition in the Department office one semester in advance and must have advanced to candidacy before they enroll in thesis/project.
- The Master of Arts in Educational Leadership, Higher Education Leadership Concentration, consists of the following tracks: Student Affairs Leadership and Community College Leadership.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLP 200</td>
<td>Diversity and Equity in Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 201</td>
<td>Foundations of Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 202</td>
<td>School Law and Ethics of Educational Leadership,Education Law and Ethics of Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 209</td>
<td>Organizational Systems and Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 250</td>
<td>Education Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration Requirements (9 Units)

Select one of the following concentrations:

TK-12 Leadership
MA in Education (Language and Literacy)

Total units required for MA: 30

Program Description

The Master of Arts in Education with a Concentration in Language and Literacy is designed for the administrator, the classroom teacher, and the specialist teacher of language and literacy for all types of children, youth, and adults. The program includes required courses in Professional Education and selected courses in language and literacy.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- two years of teaching experience or its functional equivalent;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as demonstrated by either passing the Sacramento State Writing Placement for Juniors exam or equivalent, or enrolling in ENGL 109W passing with a grade of C or better; and
- an interview with a student/practicing administrator/faculty team; interviews will be scheduled at the close of the application period, (the Graduate Record Exam (GRE) or Miller Analogies Test scores are NOT required; however, these test scores may be included with the admission application).

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student’s admission application.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 86) section of the University Catalog.

Specific Additional Admission Requirements

Admission as a classified graduate student in Education, Language and Literacy, requires:

- a valid Teaching Credential or advisor or Department approval for waiving this requirement;
- a minimum 3.0 GPA in the last 60 units attempted; and
- successful completion of a basic course in the Teaching of Reading from an accredited university; if reading methods course is older than seven years, the applicant must show evidence of either a) current staff development in Language and Literacy by participation in workshops, institutes, etc., (candidates must show documentation); or b) passing the RICA test within the past seven years.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student’s admission application.

The Department of Teacher Education requires each student download the Department of Teacher Education Graduate Student Handbook, available on the Department website (http://www.csus.edu/coe/academics/credentials/handbooks/).

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum cumulative GPA: 3.0; no units with a grade lower than "C" may apply toward the degree.

General Advancement to Candidacy Procedures

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission;
- completed at least 12 units of courses in the graduate program (see Degree Requirements) with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available online through the Office of Graduate Studies website (http://www.csus.edu/gradstudies/forms/). The student fills out the form after planning a degree program.
in consultation with the appropriate M.A. Program Coordinator. The form must be submitted to the Teacher Education Department Office and the Office of Graduate Studies for approval.

Approved Master's Thesis/Project Format: American Psychological Association (APA) - Latest edition. Before beginning a 500-level course to complete a Project, Action Research, or Thesis, students are required to have an approved Culminating Experience Proposal on file in the Department office. The reservation form for a Culminating Experience Chair for fall semester is due March 10; for spring the form is due October 15. Note: A completed Proposal requires the approval of the Culminating Experience Chair as well as Human Subjects approval. The proposal and accompanying Protection of Human Subject forms must be reviewed by the EDTE Graduate Coordinator and the Department or University Human Subjects Review Committee.

Enrollment in the 500 series Culminating Experience is for one semester. The expectation is that students will complete the thesis/project during the 500-level course. One semester of continuous enrollment is allowed if the Culminating Experience Chair deems a reasonable amount of progress has been made as per the timeline in the Proposal and assigns a grade of "RP" for the 500 series. If students fail to make adequate progress according to their Proposal timeline and there are no mitigating circumstances (e.g., illness), a grade of "no credit" is given, and the student must re-enroll in the appropriate 500 series Culminating Experience.

Note: The Department of Teacher Education requires each student to download the Department of Teacher Education Graduate Student Handbook, available on the Department website (http://www.csus.edu/coe/academics/credentials/handbooks/).

### Program Requirements

**Reading/Language Arts Specialist Credential Emphasis**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>EDTE 200</td>
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<td>3</td>
</tr>
<tr>
<td>EDTE 201</td>
<td></td>
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<td>EDTE 203</td>
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<tr>
<td>EDTE 205</td>
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*Tier I (Take these courses first)*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
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<td>EDTE 206</td>
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</tr>
<tr>
<td>EDTE 209</td>
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<td>3</td>
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</tbody>
</table>

*Tier II (Take these courses ONLY after you have completed Tier I)*

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>EDTE 225C</td>
<td>Theoretical Issues in Adult Literacies</td>
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<tr>
<td>ENGL 410L</td>
<td>Internship in Teaching Adult Reading</td>
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</table>

**Other Required Course (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EDTE 250</td>
<td>Educational Research </td>
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</table>

**Culminating Requirement (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTE 503</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**

*Credit is given upon completion of a thesis, project, or other approved culminating experience for the Master of Arts in Education (Language and Literacy). Open only to the graduate student who has been advanced to candidacy for the master's degree and has secured the permission of his/her Culminating Experience Chair and the Language and Literacy Program Coordinator. All forms may be obtained on the College of Education's website (http://csus.edu/coe/).*

### MA in Education (Workforce Development Advocacy)

**Total units required for MA: 30**

### Program Description

Educational Leadership and Policy Studies aims to develop TK-12, higher education, and workforce development leaders from diverse backgrounds who will positively impact all educational settings. The program specifically focuses on cultivating leaders who promote learning, equity, social justice and achievement for all students. Educational Leadership and Policy Studies seeks to prepare transformational leaders with the capacity to effectively facilitate and manage change.

### Admission Requirements

1. Completion of a baccalaureate degree at the time of application
2. GPA in the last 60 units of 2.5 or better
3. Completion, and successful review, of University and program application materials for admission.
4. Successful interview with faculty, demonstrating:
   - Preparation for graduate level study
   - Leadership experience
   - Familiarity with current issues in education
   - Knowledge of conflict resolution and negotiation skills
   - Knowledge of education as a professional field
   - Entry level understanding of ethical leadership
   - Knowledge of workforce development as a profession
   - Vision for education

### Advancement to Candidacy

Each student working toward a Master's degree must file an application for Advancement to Candidacy for the degree; the application is a
form on which the student indicates a proposed program of graduate study. The student must be advanced to candidacy the semester prior to enrolling in EDLP (https://catalog.csus.edu/search/?P=EDLP%20223). The procedure should begin as soon as the classified graduate status:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the Educational Leadership and Policy Studies program with a minimum 3.0 GPA; and
- completed a Graduate Writing Intensive (GWI) course in their discipline with a “B” or better, within the first two semesters of coursework at California State University, Sacramento.

Advancement to candidacy forms are available on the Office of Graduate Studies website or the GPSE Department Office. The student fills out the form after planning a degree program in consultation with his/her Educational Leadership and Policy Studies faculty advisor. The completed form is returned to the GPSE Graduate Coordinator for approval and then submitted to the Office of Graduate Studies.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Requirements (15 Units)</td>
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<tr>
<td>EDLP 200</td>
<td>Diversity and Equity in Educational Leadership</td>
<td>3</td>
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<td>EDLP 201</td>
<td>Foundations of Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 202</td>
<td>School Law and Ethics of Educational Leadership, Education Law and Ethics of Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 209</td>
<td>Organizational Systems and Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 250</td>
<td>Education Research</td>
<td>3</td>
</tr>
<tr>
<td>Concentration Requirements (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following concentrations:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>TK-12 Leadership</td>
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<tr>
<td>Higher Education Leadership</td>
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<td></td>
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<tr>
<td>Workforce Development Leadership</td>
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<td></td>
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<tr>
<td>Culminating Requirement (6 Units)</td>
<td></td>
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</tr>
<tr>
<td>EDLP 230</td>
<td>Master of Arts Thesis/Project Seminar</td>
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</tr>
<tr>
<td>EDLP 500A</td>
<td>Master of Arts Thesis/Project</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

1. **Thesis/Projects.** Students must file a Master’s Thesis/Project Petition in the Department office one semester in advance and must have advanced to candidacy the semester prior to enrolling in thesis/project. EDLP 500A and EDLP 230 can not be taken in the same semester unless approved by the student’s advisor and Department Chair. Students needing additional time may enroll in subsequent semesters of EDLP 500B and EDLP 299T with approval of their advisor and the Department Chair.

### Concentration in Workplace Development Leadership (9 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLP 223</td>
<td>Workforce Development Resource Planning, Implementation, and Evaluation</td>
<td>3</td>
</tr>
</tbody>
</table>

### MA in Educational Leadership & Policy Studies (Higher Education Leadership)

Total units required for MA: 30

### Program Description

Educational Leadership and Policy Studies aims to develop TK-12, higher education, and workforce development leaders from diverse backgrounds who will positively impact all educational settings. The program specifically focuses on cultivating leaders who promote learning, equity, social justice and achievement for all students. Educational Leadership and Policy Studies seeks to prepare transformational leaders with the capacity to effectively facilitate and manage change.

### Admission Requirements

Admission as a classified graduate student in Higher Education Leadership requires:

- Completion, and successful review, of Cal State Apply and program Supplemental application
- Successful interview with faculty, demonstrating
  - Preparation for graduate level study
  - Professional experience at any level in higher education
  - Some leadership experience
  - Familiarity with current issues in education
  - Knowledge of conflict resolution and negotiation skills
  - Knowledge of higher education as a field
  - Entry level understanding of ethical leadership
  - Vision for P-16 education

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student’s admission application.

### Specific Additional Admission Procedures

Each applicant must forward the following to the Educational Leadership and Policy Studies Department in the College of Education:

- the Educational Leadership and Policy Studies application for admission
- the supplemental application (can be found on the Apply | Sacramento State (csus.edu) (https://www.csus.edu/college/education/masters-programs/apply.html) page)
- two letters of reference (forms attached to application packet); and
- one set of transcripts, including Sacramento State (these need not be official).

Approximately two weeks after the deadline for submission of application materials to the Department, each applicant will be scheduled for an interview. Approximately two weeks after all applicants have been
Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0. Only units with a grade "C" or better may be counted.

Notes:

- This graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the "Graduate Studies" and the "Educational Leadership and Policy Studies Department" sections of this catalog.
- All work must be completed within a 7-year period.
- 30 units required for the MA, including at least 21 units in approved Educational Leadership courses. Up to six units, including extension credit, can be transferred from another university (if current and not used toward another degree); a minimum of 21 units must be taken in residence.

Advancement to Candidacy

Each student working toward a Master's degree must file an application for Advancement to Candidacy for the degree; the application is a form on which the student indicates a proposed program of graduate study. The student must be advanced to candidacy the semester prior to enrolling in EDLP 230. The procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the Educational Leadership and Policy Studies graduate program with a minimum 3.0 GPA; and
- completed a Graduate Writing Intensive (GWI) course in their discipline with a "B" or better, within the first two semesters of coursework at California State University, Sacramento.

Advancement to candidacy forms are available on the Office of Graduate Studies website or the GPSE Department Office. The student fills out the form after planning a degree program in consultation with his/her Educational Leadership faculty advisor. The completed form is returned to the GPSE Graduate Coordinator for approval and then submitted to the Office of Graduate Studies.

Notes:

- Thesis/Projects: Students must file a petition in the Department office one semester in advance and must have advanced to candidacy the semester prior to enrolling in thesis/project. EDLP 500A and EDLP 230 can not be taken in the same semester unless approved by the student’s advisor and Graduate Coordinator or Department Chair. Students needing additional time may enroll in subsequent semesters of EDLP 500B and EDLP 299T with approval of their advisor and the Department Chair.

Concentration in Higher Education Leadership (9 units)

The procedure should begin as soon as the classified graduate student has:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLP 224</td>
<td>Advanced Seminar: Dynamics of Organizational Change</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 227</td>
<td>Leading the Way for Student Success: Student and Instructional Services</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 228</td>
<td>Innovative Leadership: Strengthening Organizational Capacity</td>
<td>3</td>
</tr>
</tbody>
</table>

MA in Educational Leadership & Policy Studies (TK-12 Educational Leadership)

Total units required for MA: 30

Program Description

Educational Leadership and Policy Studies aims to develop TK-12, higher education, and workforce development leaders from diverse backgrounds who will positively impact all educational settings. The program specifically focuses on cultivating leaders who promote learning, equity, social justice and achievement for all students. Educational Leadership and Policy Studies seeks to prepare transformational leaders with the capacity to effectively facilitate and manage change.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- four years of teaching experience or its functional equivalent;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as demonstrated by either passing the Sacramento State Writing Placement for Juniors exam or equivalent, or enrolling in ENGL 109W passing with a grade of C or better; and

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLP 200</td>
<td>Diversity and Equity in Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 201</td>
<td>Foundations of Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 202</td>
<td>School Law and Ethics of Educational Leadership, Education Law and Ethics of Educational Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>
• an interview with a student/practicing administrator/faculty team; interviews will be scheduled at the close of the application period, (the Graduate Record Exam (GRE) or Miller Analogies Test scores are NOT required; however, these test scores may be included with the admission application).

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student’s admission application.

Admission Procedures
Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

• an online application for admission; and
• one set of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 86) section of the University Catalog.

Specific Additional Admission Requirements
Admission as a classified graduate student in TK-12 School Leadership and Policy Studies requires:

• Completion of a baccalaureate degree at the time of application;
• GPA in the last 60 units of a 2.5 or better;
• A minimum of 4 years teaching experience in a TK-12 educational setting;
• Completion, and successful review, of CSU Apply and program Supplemental Application
• Successful interview with faculty, demonstrating:
  • Preparation for graduate level study
  • Some leadership experience
  • Familiarity with current issues in education
  • Knowledge of conflict resolution and negotiation skills
  • Knowledge of TK-12 education as a field
  • Entry level understanding of ethical leadership
  • Vision for TK-12 education

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student’s admission application.

Specific Additional Admission Procedures
Each applicant must forward the following to the Educational Leadership and Policy Studies Department in the College of Education:

• the Educational Leadership and Policy Studies application for admission (available in Eureka Hall 437);
• two letters of reference (forms attached to application packet); and
• one set of transcripts, including Sacramento State (these need not be official).

Approximately two weeks after the deadline for submission of application materials to the Department, each applicant will be scheduled for an interview. Approximately two weeks after all applicants have been interviewed, a decision regarding admission will be mailed to each applicant.

Minimum Units and Grade Requirement for the Degree
Units required for the MA: 30

Minimum Cumulative GPA: 3.0. Only units with a grade “C” or better may be counted.

Notes:

• This graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the “Graduate Studies” and the “Educational Leadership and Policy Studies Department” sections of this catalog.
• All work must be completed within a 7-year period
• 30 units required for the MA, including at least 21 units in approved Educational Leadership courses. Up to six units, including extension credit, can be transferred from another university (if current and not used toward another degree); a minimum of 21 units must be taken in residence

Advancement to Candidacy
Each student working toward a Master’s degree must file an application for Advancement to Candidacy for the degree; the application is a form on which the student indicates a proposed program of graduate study. The student must be advanced to candidacy the semester prior to enrolling in EDLP 500A. The procedure should begin as soon as the classified graduate student has:

• removed any deficiencies in admission requirements;
• completed at least 12 units in the Educational Leadership and Policy Studies graduate program with a minimum 3.0 GPA;
• obtained advisor’s preliminary approval of thesis or project proposal; and
• taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to candidacy forms are available on the Office of Graduate Studies website or the Educational Leadership and Policy Studies Department Office. The student fills out the form after planning a degree program in consultation with his/her Educational Leadership faculty advisor. The completed form is returned to the Office of Graduate Studies for approval.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLP 200</td>
<td>Diversity and Equity in Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 201</td>
<td>Foundations of Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 202</td>
<td>School Law and Ethics of Educational Leadership, Education Law and Ethics of Educational Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>
MA in Educational Leadership
& Policy Studies (Workforce Development Leadership)

Total units required for MA: 30

Program Description
Educational Leadership and Policy Studies aims to develop TK-12, higher education, and workforce development leaders from diverse backgrounds who will positively impact all educational settings. The program specifically focuses on cultivating leaders who promote learning, equity, social justice and achievement for all students. Educational Leadership and Policy Studies seeks to prepare transformational leaders with the capacity to effectively facilitate and manage change.

Admission Requirements
1. Completion of a baccalaureate degree at the time of application
2. GPA in the last 60 units of 2.5 or better
3. Completion, and successful review, of University and program application materials for admission.
4. Successful interview with faculty, demonstrating:
   - Preparation for graduate level study
   - Leadership experience
   - Familiarity with current issues in education

• Knowledge of conflict resolution and negotiation skills
• Knowledge of education as a professional field
• Entry level understanding of ethical leadership
• Knowledge of workforce development as a profession
• Vision for education

Advancement to Candidacy
Each student working toward a Master's degree must file an application for Advancement to Candidacy for the degree; the application is a form on which the student indicates a proposed program of graduate study. The student must be advanced to candidacy the semester prior to enrolling in EDLP (https://catalog.csus.edu/search/?P=EDLP%20500A) 230. The procedure should begin as soon as the classified graduate student has:

• removed any deficiencies in admission requirements;
• completed at least 12 units in the Educational Leadership and Policy Studies graduate program with a minimum 3.0 GPA; and
• completed a Graduate Writing Intensive (GWI) course in their discipline with a "B" or better, within the first two semesters of coursework at California State University, Sacramento.

Advancement to candidacy forms are available on the Office of Graduate Studies website or the GPSE Department Office. The student fills out the form after planning a degree program in consultation with his/her Educational Leadership faculty advisor. The completed form is returned to the GPSE Graduate Coordinator for approval and then submitted to the Office of Graduate Studies.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLP 200</td>
<td>Diversity and Equity in Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 201</td>
<td>Foundations of Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 202</td>
<td>School Law and Ethics of Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 209</td>
<td>Organizational Systems and Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 250</td>
<td>Education Research</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 500A</td>
<td>Master of Arts Thesis/Project Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 30

Concentration Requirements (9 Units)
Select one of the following concentrations:

TK-12 Leadership
Higher Education Leadership
Workforce Development Leadership

Culminating Requirement (6 Units)

EDLP 230 Master of Arts Thesis/Project Seminar 3
EDLP 500A Master of Arts Thesis/Project 3
Thesis/Projects. Students must file a Master’s Thesis/Project Petition in the Department office one semester in advance and must have advanced to candidacy the semester prior to enrolling in thesis/project. EDLP 500A and EDLP 230 cannot be taken in the same semester unless approved by the student’s advisor and Graduate Coordinator or Department Chair. Students needing additional time may enroll in subsequent semesters of EDLP 500B and EDLP 299T with approval of their advisor and the Department Chair.

Concentration in Workplace Development Leadership (9 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>EDLP 223</td>
<td>Workforce Development Resource Planning, Implementation, and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 226</td>
<td>Workforce Development Professional Competencies</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 229</td>
<td>Adult Education and Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

MA in Gender Equity Studies in Education

Total units required for MA: 30

Program Description

The Master of Arts in Gender Equity in Education offers:

1. the opportunity to take courses that focus on gender roles from the points of view of the various disciplines from other University departments;
2. the opportunity to take courses that focus on the social constructs of gender, race, and socioeconomic status;
3. the opportunity to focus on the developmental needs of students for a nonsexist education; and
4. to develop an understanding of the many political and social issues affecting gender constructs in schools, the workforce, and the impact on society.

The purpose of the program is to offer graduate students an opportunity to be change agents in the educational system and to make a difference in student’s lives, which includes an understanding of intersectionality.

Admission Requirements

Requirements/Procedures for MA in Gender Equity in Education:

- a baccalaureate degree;
- a minimum 2.5 GPA in the last 60 units attempted;
- a two page essay on education/gender related topics;
- an approved statement of purpose that addresses:
  a. Why the applicant wants to enter this particular program;
  b. Career objectives which will coincide with program goals;
- evidence of completion of a previous course(s) with "B" or better grade (graduate or undergraduate level) which focuses on the area of Women's Studies and/or Gender Studies and/or course on social justices focus which includes issues on gender; and
- participation in an interview (interviews will be scheduled after applicants submit their Program application). Interviews are scheduled after the Program and Office of Graduate Studies applications are due.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student’s admission application.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470.

- an online application, via Cal State Apply (https://www2.calstate.edu/apply/), for admission; and
- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements section of the University Catalog.

Specific Additional Admission Procedures

MA in Gender Equity in Education cohorts begin in fall semester. Applicants must complete a university application and department application by the posted application deadline date for the term applying.

Each applicant must also complete the following procedures with the Graduate and Professional Studies in Education by the same due dates noted above.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Students working toward a Master’s degree must file an application for Advancement to Candidacy, indicating a proposed program of study. This procedure should begin as soon as the classified graduate student has:

- been assigned an advisor;
- removed any deficiencies in admission requirements;
- completed 12 units of content knowledge units with a minimum 3.0 GPA; and
- met the Graduate writing requirement through completion of the Graduate Writing Intensive (GWI) course, EDTE 250, with a B grade or better.

Advancement to Candidacy form is submitted online through MySacState. The student fills out the form after planning a degree program in consultation with his or her faculty advisor. The completed form is then approved by the Graduate Coordinator of the Department and submitted to the Office of Graduate Studies.

Thesis/Project Registration

The Thesis/Project course (EDTE 506) requires the student to file and have an approved Thesis/Project Petition form and Advisor Reservation form on record with the MA in Behavioral Sciences, Gender Equity Education Program Coordinator. Both forms are due by April 1st for fall enrollment and by November 1st for spring enrollment. Failure to meet
these deadlines will result in the inability to enroll in the Thesis/Project course (EDTE 506).

Enrollment in EDTE 506 for one semester is required for students to complete their thesis/project. It is expected that students will complete the thesis/project during the 500-level course. If students fail to make adequate progress according to their Proposal timeline and there are no mitigating circumstances (e.g., illness), a grade of "no credit" is given, and the student must re-enroll in EDTE 506. Enrollment in the culminating experience may occur only after approval of the Advancement to Candidacy. Enrollment in EDTE 599 (Continuous Enrollment) required completion of most of the thesis/project (all chapters completed with minor editing needed) and approval of the Program Coordinator.

Please be aware that this program follows the guidelines provided by the American Psychological Association’s (APA) most current edition for formatting of theses and projects. The Office of Graduate Studies also publishes a two-sided form, Project Format Requirements, to refer to for the preparation and submission of the Master’s Project. You can find this form and other Graduate Studies forms on the web on the Office of Graduate Studies website (http://csus.edu/gradstudies/forms/).

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 165</td>
<td>Sex Role Stereotyping in American Education</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 250</td>
<td>Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 251</td>
<td>Education for a Democratic, Pluralistic Society</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 266</td>
<td>Gender Constructs in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 268</td>
<td>Theory and Practice of Gender Issues and Race</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 290</td>
<td>Seminar: Preparation of Master's Thesis/Project</td>
<td>3</td>
</tr>
<tr>
<td>Electives (9 units)</td>
<td>Though a teaching credential is not required for this program, students who do not have a credential, will be asked to take an approved elective that centers on teaching and instruction.</td>
<td>9</td>
</tr>
</tbody>
</table>

Culminating Experience (3 units)

EDTE 506 Culminating Experience: Gender Equity Studies in Education 3

Total Units 30

MA in Language and Literacy

Total units required for MA: 30

Program Description

The Master of Arts in Education in Language and Literacy is designed for the administrator, the classroom teacher, and the specialist teacher of language and literacy for all types of children, youth, and adults. The program includes required courses in the field of language and literacy. Students will do practical work with struggling readers, examine literacy in educational contexts, and read and do research in the field of literacy.

Admission Requirements

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student’s admission application.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 86) section of the University Catalog.

Specific Additional Admission Requirements

Admission as a classified graduate student in Education, Language and Literacy, requires:

- a minimum 3.0 GPA in the last 60 units attempted; and
- an essay for acceptance into the Masters program is required. The Graduate Record Exam (GRE) or Miller Analogies Test scores are NOT required, however, these test scores may be included with the admission application.
- a valid California Teaching Credential is not required, but may be included in the application.
- completion and successful review of Department application

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student’s admission application.

Program Requirements

Reading/Language Arts Masters Degree

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLL 200</td>
<td>Practicum in Decoding and Fluency: Assessment and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 201</td>
<td>Practicum in Comprehension: Assessment and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 203</td>
<td>Teaching and Assessing Writing in the Pre-K through 12 Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 205</td>
<td>Psychology and Sociology of Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 202</td>
<td>Language and Literacy Development in Multicultural Settings</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 206</td>
<td>Leadership In Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 207</td>
<td>Advanced Practicum in Reading Difficulties: Assessment and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 209</td>
<td>Literature for the Diverse Pre-K through 12 Classroom: Issues, Models and Strategies</td>
<td>3</td>
</tr>
<tr>
<td>Other Required Course (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDLL 205</td>
<td>Psychology and Sociology of Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Culminating Requirement (3 Units)</td>
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<td></td>
</tr>
</tbody>
</table>
MA in Multicultural Education

Total units required for MA: 30

Program Description
The Multicultural Education graduate program explores theoretical and pedagogical issues related to working with diverse culturally, linguistically, ethically, and low-income populations across educational and community settings. The program includes history, research and pedagogy on bilingualism, multiculturalism, educational equity, social justice, and ethnic studies, offering courses and experiences to assist educators to work successfully in classrooms, schools, and educational agencies within our diverse state. The curriculum develops students’ historical, pedagogical, analytical, and planning skills in order to prepare them to operate effectively in the development, implementation and analysis of educational policies and programs, as well as in social justice projects and advocacy to serve historically underserved and underrepresented groups in K-12 education.

Admission Requirements
Admission as a classified graduate student requires:

- a baccalaureate degree;
- a minimum 2.5 GPA in the last 60 units;
- completion and successful review of application;
- Resume
- Two letters of recommendation
- Personal Statement
- Essay
- Interview

Admission Procedures
Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 86) section of the University Catalog.

The Department does not accept units earned through Open University and they will not be credited towards the Multicultural Education degree.

Specific Admission Procedures
All MA cohorts begin in fall semester. Applicants must complete a university application and department application by the posted application deadline date for the term applying:

When applying applicants will include the following materials. Each applicant must also complete the following procedures with the Graduate and Professional Studies in Education by the same due dates noted above:

- complete and submit a Program application
- Resume: Please include a copy of a current resume or curriculum vita, which includes relevant experience in working with diverse population
- Two letters of recommendation from individuals who can speak of your professional experience, competence, and/or academic potential
- Personal Statement: Please attach a statement of purpose that provides:
  - (a) A description of the school(s) or educational setting(s) in which you have had experience; (b) A description of the kinds of responsibilities you have had as an educator; (c) A description of the kinds of multicultural activities and programs you have experienced as an educator; (d) If not detailed in a-c above, a description of the kinds of experiences you have had in multicultural and/or multilingual settings. The personal statement should not exceed 2 pages, double spaced, 12 point font and type-written
- Essay: Discuss a current critical issue in the field of education in communities with children, adolescents, or adults with either a

EDLL 503 Culminating Experience: Language and Literacy 3

Total Units 30

Adult Reading Certificate Emphasis

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 215A</td>
<td>Reading/Vocabulary Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 201</td>
<td>Practicum in Comprehension: Assessment and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 203</td>
<td>Teaching and Assessing Writing in the Pre-K through 12 Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 205</td>
<td>Psychology and Sociology of Literacy Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 202</td>
<td>Language and Literacy Development in Multicultural Settings</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 207</td>
<td>Advanced Practicum in Reading Difficulties: Assessment and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>EDTE 225C</td>
<td>Theoretical Issues in Adult Literacies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 410L</td>
<td>Internship in Teaching Adult Reading</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 250</td>
<td>Education Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Culminating Requirement (3 Units)

EDLL 503 Culminating Experience: Language and Literacy 3

Total Units 30

1 Credit is given upon completion of a thesis, project, or other approved culminating experience for the Master of Arts in Education (Language and Literacy). Open only to the graduate student who has been advanced to candidacy for the master’s degree and has secured the permission of his/her Culminating Experience Chair and the Language and Literacy Program Coordinator. All forms may be obtained on the College of Education’s website (http://csus.edu/coe/).

2 The Adult Reading Certificate in not currently being offered. Please check with the department for information about future plans to offer it.
focus on racial/ethnic diversity, English Learners, and/or disabilities, and the relationship of this issue to your motivation to become a social justice advocate. The essay should not exceed 3 pages, double spaced, 12 point font and type-written.

- Interview: Each applicant will be interviewed (either in person or virtually) and given the opportunity to articulate in-person how the Multicultural Education program aligns with personal, professional, or research goals. Interviews are scheduled within one month after the Program and Office of Graduate Studies applications are due.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of study for the MA. The student must be advanced to candidacy prior to enrolling in EDBM 565. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of courses in the graduate program (see Degree Requirements) with a minimum 3.0 GPA; and
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first three semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student will complete the form after planning a degree program in consultation with the Department Graduate Coordinator. The form must be submitted to the Multicultural Education Graduate Coordinator and the Office of Graduate Studies for approval.

Thesis/Project Registration

Check with the Multicultural Education Graduate Coordinator for the policies regarding Report in Progress (“RP”) grades and continuous enrollment. The culminating experience for the MA may be a thesis or project.

A 3-unit course is required when doing the thesis/project. Enrollment in the culminating experience may occur only after Advancement to Candidacy.

The Thesis/Project course requires the student to file and have an approved Thesis/Project Petition form and Advisor Reservation form on record with the Multicultural Education Graduate Coordinator at least one full semester in advance of registration. Both forms are due by April 1st for fall enrollment and by November 1st for spring enrollment. Failure to meet these deadlines will result in the inability to enroll in the Thesis/Project course for the desired semester.

The Thesis/Project Petition and reservation forms must be submitted to the Graduate Coordinator at least one month prior to the submission due date (i.e., March or October); the forms will then be forwarded to the Graduate Committee for review and recommendations.

Students may enroll in the Thesis/Project course a maximum of two semesters for credit. Students must submit the Reservation Form only to continue in the Thesis/Project course for the second semester. Failure to do so will result in inability to work with the Thesis/Project advisor for the desired semester.


Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDBM 250</td>
<td>Education Research</td>
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</tr>
<tr>
<td>EDBM 228</td>
<td>The Academic and Social Value of Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>EDGR 210</td>
<td>Contemporary Issues in Education: Curriculum and Social Emotional Well Being of Students</td>
<td>3</td>
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<tr>
<td>ETNH 203</td>
<td>Contemporary Ethnic Studies Issues</td>
<td>3</td>
</tr>
<tr>
<td>ETNH 204</td>
<td>Foundations &amp; Theories</td>
<td>3</td>
</tr>
<tr>
<td>EDBM 565</td>
<td>MA Thesis/Project</td>
<td>3</td>
</tr>
<tr>
<td>EDBM 599</td>
<td>Continuous Enrollment</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 30

1 The program requires completion of 30 units of approved coursework with a minimum 3.0 GPA. A minimum of 18 units of approved 200 series offerings must be earned, not including EDBM 299. A minimum of 24 units in 200, and 500 series offerings must be earned in residence at Sacramento State. The Department does not accept units earned through Open University, and they will not be credited towards the MA. All work must be completed within a 7-year period.

2 According to university policy, “A minimum cumulative grade point average of 3.0. No grade below a “B” may be counted toward the degree requirement unless expressly permitted by a campus-approved graduate programs’ written policies”. See http://catalog.csus.edu/graduate-degree-requirements/

3 EDBM 599 (Continuous Enrollment) will only be offered to students (a) after one semester of EDBM 565, AND (b) with advisor approval.

MA in School Psychology

Total units required for MA: 42-45

Program Description

The Master of Arts in School Psychology is part of the School Psychology Program, and typically earned as students progress toward the more advanced Ed.S. in School Psychology (https://catalog.csus.edu/colleges/education/graduate-professional-studies-education/eds-in-school-psychology/) degree. Students who do not wish to obtain the Ed.S. are allowed to have this be their terminal School Psychology Program degree.

This program offers the opportunity to gain skills in working with preschool through grade 12 students, teachers, and parents in the school setting. Graduates of this degree who also complete practicum and fieldwork requirements (described in Pupil Personnel Services School Psychology Endorsement Credential (https://catalog.csus.edu/colleges/education/graduate-professional-studies-education/pupil-personnel-services-school-psychology-endorsement-credential/)) are eligible for the Pupil Personnel Services School Psychology Endorsement Credential,
offered by the California Commission on Teacher Credentialing (CCTC). Possession of the MA in School Psychology and the Pupil Personnel Services School Psychology Endorsement Credential also prepares an individual to meet the academic requirements for the Licensed Educational Psychologist (https://www.bbs.ca.gov/applicants/lep.html) (LEP) license administered by the California Board of Behavioral Sciences (https://www.bbs.ca.gov), California Department of Consumer Affairs.

The program includes training in counseling techniques, the use of individual academic and psychological assessment tools, behavioral interventions in the school and the home, consultation skills, techniques of program development and evaluation, special education law, and instructional strategies.

Note: If students are to graduate under the provisions of this catalog, they must maintain continuous enrollment from the date of classification to the date of graduation. Students who are planning to be absent for more than one semester must file a Leave of Absence request and have it approved prior to the absence.

Admission Requirements

Admission Procedures
See Ed.S. in School Psychology (https://catalog.csus.edu/colleges/education/graduate-professional-studies-education/eds-in-school-psychology/) for admission procedures. For more admissions information and application deadlines, visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/), and the College of Education website (https://www.csus.edu/college/education/masters-programs/). The graduate degree program is subject to general University requirements. These requirements are explained in the Graduate Degree Requirements (https://catalog.csus.edu/graduate-degree-requirements/) section of the University Catalog.

Minimum Units and Grade Requirement for the Degree
Units required for the MA: 42-45

Minimum Cumulative GPA: 3.0. No single course in which a student receives a grade below "B" will be counted as credit toward the degree unless the student has petitioned for acceptance of the course, and the petition has been accepted and approved by the School Psychology Program faculty.

Note: A minimum of 21 of these units must be taken in residence at California State University, Sacramento. Use of extension courses must be approved by the advisor. Enrollment in Special Problems (EPSY 299) will only be granted under exceptional circumstances.

Advancement to Candidacy
Students must advance to candidacy prior to enrolling in EPSY 249 or EPSY 541. Students working toward a school psychology graduate degree must file an application for Advancement to Candidacy, indicating a proposed program of study. This procedure should begin (typically by the end of the first year in the program) as soon as the classified graduate student has:

- been assigned an advisor;
- removed any deficiencies in admission requirements;
- completed 24 units of School Psychology Program coursework with a minimum 3.0 overall GPA; and
- satisfied the Graduate Writing Assessment Requirement (GWAR) by passing EPSY 201, Legal Aspects of Special Education, with a grade of "B" or higher.

Advancement to Candidacy forms are available on the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/current-students/forms.html). The student fills out the form after planning the degree program in consultation with a faculty advisor and approved by the Graduate Coordinator. The completed form is then returned to the Office of Graduate Studies for approval. Please note deadline dates posted by the Office of Graduate Studies for submission of this form. Students who are going on to the Ed.S. in School Psychology, are automatically advanced to Ed.S. candidate status after being awarded the MA in School Psychology.

Culminating Experience Requirements
Enrollment in the MA Seminar EPSY 249 or Master's Project EPSY 541 requires students to file and have approved a Reservation Form for these courses the semester before intended registration. Registration for Special Problems (EPSY 299) requires a Special Problems petition be filed the semester before intended registration. This program follows guidelines provided by the American Psychological Association's, most current edition for formatting of projects. The Office of Graduate Studies, River Front Center 215, (916) 278-6470, offers formatting guides and templates on their website (https://www.csus.edu/graduate-studies/current-students/thesis-project-dissertation.html).

Graduation Procedures
Prior to graduation, an application for graduation (https://www.csus.edu/graduate-studies/current-students/forms.html) must be filed in the Office of Graduate Studies by the specified deadline. All coursework leading to this degree must be completed within a seven year period. Always attend to deadline dates posted by the Office of Graduate Studies for submission of this form.

Program Requirements

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<thead>
<tr>
<th>First Semester</th>
<th>Units</th>
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<tr>
<td>EPSY 201 Legal Aspects of Special Education</td>
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<td>EPSY 221 EQUITY CONSIDERATIONS</td>
<td>3</td>
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<tr>
<td>EPSY 231 Group Process in School Psychology</td>
<td>3</td>
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<tr>
<td>EPSY 245 Psychology In The Schools</td>
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</tr>
<tr>
<td>EPSY 248 Human Development and Learning</td>
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<th>Second Semester</th>
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<tr>
<td>EPSY 241 Counseling and Psychotherapy for School Psychologists</td>
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<tr>
<td>EPSY 242A Cognitive Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 250 Educational Research</td>
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<td><strong>Total</strong></td>
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<thead>
<tr>
<th>Third Semester</th>
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<tr>
<td>EPSY 240 Functional Assessment of Behavior</td>
<td>3</td>
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<tr>
<td>EPSY 244 Social, Emotional and Behavioral Assessment</td>
<td>3</td>
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<tr>
<td>EPSY 246A Preventive Academic Interventions</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>
MA in Universal Design for E-learning

Catalog Description

The Master of Arts in Universal Design for eLearning (UDEL) is a fully online one-year project-based program. The program focuses on Universal Design for Learning principles, technology, instructional design, and inclusive teaching and learning. The UDEL Program is designed for students who want to advocate for diversity, equity, and inclusion in course design. Each course will draw from an equity lens to examine ways to increase access to various educational supports and promote learner success. Students will learn ways to remove barriers to increase access to instructional materials, technology, support services, and assessment methods.

Program Description

The Master of Arts in Universal Design for eLearning (UDEL) is a fully online one-year project-based program. The program focuses on Universal Design for Learning principles, technology, instructional design, and inclusive teaching and learning. The UDEL Program is designed for students who want to advocate for diversity, equity, and inclusion in course design. Students will be able to advance their knowledge of instructional approaches that reduce barriers to meet the needs and abilities of all learners.

The program is designed with a core curriculum structure that logically progresses through the course content and provides a clear learning path. Each course is designed to provide options and choices in various contexts. There will be an intentional focus on instructional materials selection to provide a social justice lens in digital spaces. The program will incorporate social learning and provide students with the opportunity to contribute, collaborate, and challenge their thoughts. Course work will present real-life, authentic connections that make the information relevant to students’ lived experiences. Courses will provide a variety of examples and formats to help students truly internalize the material.

The UDEL program coursework is project-oriented and will consist of field-based work. The Culminating Experience (Exam) will consist of an ePortfolio where students will add equity and/or technology-based artifacts they developed in each course throughout the program. Students will have faculty assigned as advisors to help them complete the project report and ePortfolio. Program instructors are experts in instructional design, technology, and inclusive learning and teaching. They hold advanced degrees and subject matter field experiences.

This program is offered as a partnership between the College of Education and the College of Continuing Education at Sacramento State.

Admission Requirements

Admission as a classified graduate student in the Master of Arts in Universal Design for eLearning Program requires:

- a baccalaureate degree;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as by meeting the requirements set by Sacramento State;
- an intermediate level of educational technology knowledge and proficiency
- International students must meet Office of Graduate Studies (OGS) requirements for international students, which are available through the OGS website.

Opportunity exists for conditional classification of applicants with an undergraduate major and experiences different from those listed above. This requires that students demonstrate convincingly that they are competent to pursue the degree.

Admission Procedures

All prospective graduate students, including Sacramento State graduates, must file a University application and a separate supplemental MA UDEL Program application. Both applications must be submitted by the deadlines stated on the College of Continuing Education and Office of Graduate Studies websites. Required application materials include:

- Online applications for admission;
- Official transcripts from all colleges and universities attended, other than Sacramento State;
- A clearly articulated statement of purpose that addresses the applicants personal and academic preparation for the program that includes:
  - why the applicant wants to enter this particular program which would include
  - An example of a work experience where you identified a need for building more equitable and inclusive learning opportunities, including a description of your level of involvement, and
  - an example of a successful experience you have had in using technology for teaching or learning
- Career objectives

Applicants must be proficient in using the Internet and have Internet access to meet the program.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/). Details about each of the components of the supplemental application can be found on the application packet posted to the College of Education website.

Approximately six weeks after the posted application deadline, a decision regarding admission will be emailed to each applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30.0

Minimum Cumulative GPA: 3.0; no units with a grade lower than "B-" may apply toward the degree.

Advancement to Candidacy Procedures

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of courses in the graduate program (see Requirements) with a minimum 3.0 GPA; and
• met the Graduate writing requirement through completion of the Graduate Writing Intensive (GWI) course, EDI 250, with a B grade or better.

Advancement to Candidacy form is submitted online through MySacState. The student fills out the form after planning a degree program in consultation with his or her faculty advisor. The completed form is then approved by the Graduate Coordinator of the Department and submitted to the Office of Graduate Studies.

### Program Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>EDG 251</td>
<td>Principles of Universal Design for Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDG 252</td>
<td>Instructional Design and eLearning Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>EBM 250</td>
<td>Education Research</td>
<td>3</td>
</tr>
<tr>
<td>EDG 253</td>
<td>Instructional Design and eLearning</td>
<td>3</td>
</tr>
<tr>
<td>EDG 254</td>
<td>Instructional Design and eLearning Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>EDG 255</td>
<td>Multimedia and Advanced Applications for Inclusive Course Design</td>
<td>3</td>
</tr>
<tr>
<td>EDG 256</td>
<td>Aligning Culturally Responsive Education and UDL</td>
<td>3</td>
</tr>
</tbody>
</table>

### Electives

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 557</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**: 30

1. Program electives are to be selected by the student in consultation with the Universal Design for eLearning Program Coordinator. At least three of the elective units must be at the 200 level. Students may focus their elective units in a program of their interest or select courses from other programs. Examples of Universal Design for eLearning elective programs include: Curriculum and Instruction, Language and Literacy, Multicultural Education, Gender Equity, BTSA or other pre-approved induction courses.

With UDEL Program Coordinator approval, elective courses may include one of the following:

- 6 transfer elective units (must not be independent study or supervision units)
- 6 units of academic credit earned through Continuing Education

2. Credit is given upon completion of an Exam which consists of an ePortfolio approved culminating experience for the Master of Arts in Universal Design for eLearning. Open only to the graduate student who has been advanced to degree and has secured the permission of the UDEL Program Coordinator.

### MS in Counseling (Career Counseling)

**Total units required for MS: 60**

### Program Description

The 60-unit Master of Science in Counseling prepares professional counselors for employment in a variety of settings such as public and private agencies, universities and colleges, schools and private practice. This degree meets the educational requirements for becoming a Licensed Marriage and Family Therapist (LMFT) and/or a Licensed Professional Clinical Counselor (LPCC) in the State of California. The 59-unit Pupil Personnel Services, School Counseling Credential prepares professional counselors to work within the K-12 educational system.

The programs are clinically oriented, with didactic and experiential courses, a 100-hour clinical practicum, and 600 hours of field experience. The program is a full time three-year program and students will take between 9-12 units each fall and spring to complete within the three years. Students are admitted into a cohort and will follow the course sequence designated by their program concentration. The cohort model allows students to advance together throughout their education while building support and connections within their peer group. Students are encouraged to advance their advocacy and professional experiences through such activities as participation in professional organizations, research, and presentations at the state, regional, and national level; involvement in the CSUS Multicultural Conference; [https://www.csus.edu/college/education/engagement/mce_conference/](https://www.csus.edu/college/education/engagement/mce_conference/) and/or involvement in the Counselor Education Student Counseling Society. Both leadership and research opportunities are supported through faculty mentorship. The curricular experience is organized around core foundation courses, an intensive on-campus practicum training clinic experience, interpersonal growth experiences, advanced theory and practice courses, and a culminating field study placement.

### Career Counseling Concentration

- The Career Counseling Concentration provides students with the knowledge, theory, and skills to work as effective counselors/career development specialists, and consultants in a variety of settings: community-based agencies, schools (K-12), colleges and universities, private practice, business, industry, and government. Students are trained to facilitate a holistic career development/career decision-making/planning process with groups and individuals that integrates personal, social, and career needs. Students develop the skills to address current issues in the 21st century, such as career self-reliance, work/family/life balance, multiculturalism, diversity, and lifelong learning.

Note: Only students who are already enrolled in the School Counseling specialization at California State University, Sacramento may apply to the Pupil Personnel Services School Counseling Internship Credential Program (p. 492).

The Career Counseling: Marriage, Couple, and Family Counseling: Rehabilitation Counseling: and School Counseling concentrations at Sacramento State are nationally accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP).

Note: For additional information on credentials, see the "College of Education" section of this catalog. Program requirements are subject to change in order to maintain compliance with relevant state and national certification, licensure, and/or accreditation requirements. Interested parties should refer to the current student handbook for up to date program information.

### Special Features

- An on-campus Center for Counseling and Diagnostic Services brings clients from off campus to be counseled by students in the program and provides opportunity for video and audio feedback.
- Trainees provide off-campus counseling in local agencies, school districts, hospitals, and non-profit organizations.
- The Masters in Counseling Program and participating school districts collaborate with the Migrant Education Advisor Program (MEAP),
which is a collaborative partnership with the Office of Migrant Education.
- Faculty actively support diversity and focus on multicultural counseling skills throughout the curriculum.
- Classes are offered during the day, late afternoon, and evening.

Admission Requirements
Admission as a classified graduate student in the Master of Science in Counseling program requires:

- A baccalaureate degree;
- Good academic standing at the last college attended;
- A grade point average of at least 3.0 (on a 4.0 scale) in the last 60 semester (or 90 quarter units);
- Completion of the University application materials;
- Completion and submission of all Departmental application materials which include:
  - Application form;
  - Written statements delineated in application, including a Personal Statement and Writing Sample;
  - Copies of transcripts (from all universities and colleges attended);
  - Professional letters of recommendation (2 required);
  - Relevant work experience via a Resume/CV
- Participation in an In-Person Admission Evaluation, which may include (but is not limited to) interviews, experiential activities, and writing samples.

Selected applicants, based on paper screening of completed applications, will be invited for an In-Person Admission Evaluation. Decisions for admission into the Master of Science in Counseling program are made based on a comprehensive assessment of all application materials and performance in the In-Person Admission Evaluation.

Admission Procedure
The M.S. in Counseling accepts applications each fall for admission the following year. The program does not offer spring admissions. Applicants must complete a university application and program supplemental application by the posted application deadline date for the term applying.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/).

Prospective applicants, including Sacramento State graduates, must submit one set of official transcripts from all colleges and universities attended, other than Sacramento State, to the Office of Graduate Studies either electronically to gradtranscripts@csus.edu or physical transcripts for those institutions that do not send official transcripts electronically can be addressed to:

Office of Graduate Studies
California State University, Sacramento
Riverfront Center, Room 215, MS 6112
6000 J St.
Sacramento, CA 95819

Admission is competitive with a limited number of students admitted each year. At the end of the application and screening period, a program recommendation will be submitted to the Office of Graduate Studies for further review. Decisions regarding admission are then emailed to each applicant. Following admission, students are assigned to a faculty advisor who assists with academic advising.

The Master of Science in Counseling and the Pupil Personnel Services credentials are subject to general University and requirements. These requirements are explained in the "Graduate Degree Requirements" and the "Counselor Education" sections of this catalog. Students may be disqualified when not meeting program standards (see Counselor Education Student Handbook).

Minimum Units and Grade Requirement for the Degree
Units required for the MS: 60
Minimum Cumulative GPA: 3.0

Advancement to Candidacy
Each student working toward a Master’s degree must file an application for Advancement to Candidacy for the Master’s degree. The purpose of this application is to provide certification to the Office of Graduate Studies that the student will complete or has completed the necessary requirements and acceptable electives for the Master’s degree with a minimum 3.0 GPA. The Advancement to Candidacy application should be filed upon completion of 30 units in the program but typically our students complete this in their final year of our program.

Note: Students must meet the Graduation Writing Assessment Requirement (GWAR) before advancing to candidacy. Our EDC 250 serves as our Graduate Writing Intensive (GWI) course to advance to candidacy.

The Advancement to Candidacy form is submitted online. Students should complete the relevant form electronically in consultation with their assigned academic advisor. Once the form is endorsed by the student and the advisor, it will be verified by the Department's Graduate Coordinator and then forwarded to the Office of Graduate Studies for final approval. An Advancement to Candidacy must be on file prior to submitting a Petition to Graduate to the Office of Graduate Studies.

For Counselor Education information please visit the College of Education: Master’s Programs Website (https://www.csus.edu/college/education/masters-programs/) where you will find the Counselor Education webpage (https://www.csus.edu/college/education/masters-programs/counselor-education.html) and under the “Current Students” link, the Forms and Handbooks (https://www.csus.edu/college/education/masters-programs/current-students.html) page where you can obtain the Student Handbook. It is highly recommended that students read the Student Handbook.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EDC 210</td>
<td>Advocacy, Social Justice, and Cultural Foundations in Counseling</td>
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<tr>
<td>EDC 214</td>
<td>Dynamics of Human Development</td>
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<td>EDC 216</td>
<td>Counseling Theory</td>
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<td>EDC 218</td>
<td>Assessment In Counseling</td>
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<td>EDC 219</td>
<td>Group Processes in Counseling</td>
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<td>EDC 231</td>
<td>Diagnosis and Treatment Planning</td>
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<td>EDC 233</td>
<td>Substance Use and Addiction Counseling</td>
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<td>EDC 244</td>
<td>Trauma and Crisis Counseling</td>
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<td>EDC 250</td>
<td>Education Research</td>
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### Program Description

The 60-unit Master of Science in Counseling prepares professional counselors for employment in a variety of settings such as public and private agencies, universities and colleges, schools and private practice. This degree meets the educational requirements for becoming a Licensed Marriage and Family Therapist (LMFT) and/or a Licensed Professional Clinical Counselor (LPCC) in the State of California. The 59-unit Pupil Personnel Services, School Counseling Credential prepares professional counselors to work within the K-12 educational system.

The programs are clinically oriented, with didactic and experiential courses, a 100-hour clinical practicum, and 600 hours of field experience. The program is a full time three-year program and students will take between 9-12 units each fall and spring to complete within the three years. Students are admitted into a cohort and will follow the course sequence designated by their program concentration. The cohort model allows students to advance together throughout their education while building support and connections within their peer group. Students are encouraged to advance their advocacy and professional experiences through such activities as participation in professional organizations, research, and presentations at the state, regional, and national level; involvement in the CSUS Multicultural Conference; (https://www.csus.edu/college/education/engagement/mce_conference/) and/or involvement in the Counselor Education Student Counseling Society. Both leadership and research opportunities are supported through faculty mentorship. The curricular experience is organized around core foundation courses, an intensive on-campus practicum training clinic experience, interpersonal growth experiences, advanced theory and practice courses, and a culminating field study placement.

### Concentration Requirements

#### Career Counseling (15 units)

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<td>Counseling and Psychotropic Medicine</td>
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<tr>
<td>EDC 262</td>
<td>Career Counseling Process</td>
<td>3</td>
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<tr>
<td>EDC 264</td>
<td>Seminar in Counseling: Career Systems</td>
<td>3</td>
</tr>
<tr>
<td>EDC 266</td>
<td>Seminar in Counseling: Career Program</td>
<td>3</td>
</tr>
<tr>
<td>EDC 268</td>
<td>Career and Job Search</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**: 45

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#### Marriage, Couple, and Family Counseling Concentration

- The Marriage, Couple, and Family Counseling Concentration is designed to provide students with all the educational competencies required by the California State Board of Behavioral Sciences (BBS) for licensure as a Marriage and Family Therapist (LMFT). The program trains professionals to work in a variety of settings, including community agencies, county and state agencies, hospitals and private practice, and prepares students to provide consulting to businesses and agencies. Emphasis is placed on developmental and preventative concerns from a holistic perspective.

Note: Only students who are already enrolled in the School Counseling concentration at California State University, Sacramento may apply to the Pupil Personnel Services School Counseling Internship Credential Program (p. 492).

The Career Counseling; Marriage, Couple, and Family Counseling; Rehabilitation Counseling; and School Counseling concentrations at Sacramento State are nationally accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The Marriage, Couple, and Family Counseling concentration is both CACREP accredited, and COAMFTE aligned, in order to help students with licensure in California and other states.

Note: For additional information on credentials, see the “College of Education” section of this catalog. For program specific information, see the Counselor Education webpage. Program requirements are subject to change in order to maintain compliance with relevant state and national certification, licensure, and/or accreditation requirements. Interested parties should refer to the current student handbook for up to date program information.

### Special Features

- An on-campus Center for Counseling and Diagnostic Services brings clients from off campus to be counseled by students in the program and provides opportunity for video and audio feedback.

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<table>
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<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>EDC 252</td>
<td>Legal and Ethical Issues in Professional Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDC 260</td>
<td>Career Development</td>
<td>3</td>
</tr>
<tr>
<td>EDC 280</td>
<td>Counseling Skills Lab</td>
<td>2</td>
</tr>
<tr>
<td>EDC 475</td>
<td>Counseling Practicum</td>
<td>3</td>
</tr>
<tr>
<td>EDC 480</td>
<td>Field Study In Counseling</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Units**: 44

---

1. Minimum GPA: 3.0
2. Academic Residence: A minimum of 42 approved semester units in 100-, 200-, and 500-series offerings must be earned in residence at California State University, Sacramento.

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### Culminating Requirement (1 Unit)

All students in the M.S. in Counseling program must enroll in EDC 500 during their final semester in the program and complete the Counselor Education Preparation Comprehensive Examination (CPCE).

In order to pass this multiple choice examination, a student must meet the minimum criterion score set by the Counselor Education Program. Categories covered include:

- Human Growth and Development
- Social and Cultural Foundations
- Helping Relationships
- Group Work
- Career and Lifestyle Development
- Appraisal
- Research and Program Evaluation
- Professional Orientation and Ethics

1. Department petition required the semester prior to enrollment.

---

### MS in Counseling (Marriage, Couple, and Family Counseling)

**Total units required for MS**: 60

---

**Special Features**

- An on-campus Center for Counseling and Diagnostic Services brings clients from off campus to be counseled by students in the program and provides opportunity for video and audio feedback.
- Trainees provide off-campus counseling in local agencies, school districts, hospitals, and non-profit organizations.
- Faculty actively support diversity and focus on multicultural counseling skills throughout the curriculum.
- Classes are offered during the day, late afternoon, and evening.
- Opportunities to collaborate with school districts.

**Admission Requirements**

Admission as a classified graduate student in the Master of Science in Counseling program requires:

- A baccalaureate degree;
- Good academic standing at the last college attended;
- A grade point average of at least 3.0 (on a 4.0 scale) in the last 60 semester (or 90 quarter units);
- Completion of the University application materials;
- Completion and submission of all Departmental application materials which include:
  - Application form;
  - Written statements delineated in application, including Personal Statement and Writing Prompt;
  - Copies of transcripts (from all universities and colleges attended);
  - Professional letters of recommendation (2 required);
  - Relevant work experience via a Resume/CV.
- Participation in an In-Person Admission Evaluation, which may include (but is not limited to) interviews, experiential activities, and writing samples.

Selected applicants, based on paper screening of completed applications, will be invited for an In-Person Admission Evaluation via an Interview Day. Decisions for admission into the Master of Science in Counseling program are made based on a comprehensive assessment of all application materials and performance in the In-Person Admission Evaluation.

**Admission Procedure**

The M.S. in Counseling accepts applications each fall for admission the following year. The program does not offer spring admissions. Applicants must complete a university application and program supplemental application by the posted application deadline date for the term applying.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/).

Prospective applicants, including Sacramento State graduates, must submit one set of official transcripts from all colleges and universities attended, other than Sacramento State, to the Office of Graduate Studies either electronically to gradtranscripts@csus.edu or physical transcripts for those institutions that do not send official transcripts electronically can be addressed to:

Office of Graduate Studies
California State University, Sacramento
Riverfront Center, Room 215, MS 6112
6000 J St.
Sacramento, CA 95819

Admission is competitive with a limited number of students admitted each year. At the end of the application and screening period, a program recommendation will be submitted to the Office of Graduate Studies for further review. Decisions regarding admission are then emailed to each applicant. Following admission, students are assigned to a faculty advisor who assists with academic advising.

The Master of Science in Counseling and the Pupil Personnel Services credentials are subject to general University and requirements. These requirements are explained in the "Graduate Degree Requirements" and the "Counselor Education" sections of this catalog. Students may be disqualified when not meeting program standards (see Counselor Education Student Handbook).

**Minimum Units and Grade Requirement for the Degree**

Units required for the MS: 60

Minimum Cumulative GPA: 3.0

**Advancement to Candidacy**

Each student working toward a Master’s degree must file an application for Advancement to Candidacy for the Master’s degree. The purpose of this application is to provide certification to the Office of Graduate Studies that the student will complete or has completed the necessary requirements and acceptable electives for the Master’s degree with a minimum 3.0 GPA. The Advancement to Candidacy application should be filed upon completion of 30 units in the program but typically our students complete this in their final year of our program.

**Note:** Students must meet the Graduation Writing Assessment Requirement (GWAR) before advancing to candidacy. Our EDC 250 serves as our Graduate Writing Intensive (GWI) course to advance to candidacy.

The Advancement to Candidacy form is submitted online. Students should complete the relevant form in consultation with their assigned academic advisor. Once the form is endorsed by the student and the advisor, it will be verified by the Department’s Graduate Coordinator and then forwarded to the Office of Graduate Studies for final approval. An Advancement to Candidacy must be on file prior to registration for culminating experience (EDC 500) and prior to submitting a Petition to Graduate to the Office of Graduate Studies.

For Counselor Education information please visit the College of Education: Master’s Programs Website (https://www.csus.edu/college/education/masters-programs/) where you will find the Counselor Education webpage (https://www.csus.edu/college/education/masters-programs/counselor-education.html) and under the “Current Students” link, the Forms and Handbooks (https://www.csus.edu/college/education/masters-programs/current-students.html) page where you can obtain the Student Handbook. It is highly recommended that students read the Student Handbook.

**Program Requirements**

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<thead>
<tr>
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<th>Title</th>
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</tr>
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<tbody>
<tr>
<td>EDC 210</td>
<td>Advocacy, Social Justice, and Cultural Foundations in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDC 214</td>
<td>Dynamics of Human Development</td>
<td>3</td>
</tr>
<tr>
<td>EDC 216</td>
<td>Counseling Theory</td>
<td>3</td>
</tr>
<tr>
<td>EDC 218</td>
<td>Assessment In Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDC 219</td>
<td>Group Processes in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDC 231</td>
<td>Diagnosis and Treatment Planning</td>
<td>3</td>
</tr>
<tr>
<td>EDC 233</td>
<td>Substance Use and Addiction Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDC 244</td>
<td>Trauma and Crisis Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>
EDC 250  Education Research  3
EDC 252  Legal and Ethical Issues in Professional Counseling  3
EDC 260  Career Development  3
EDC 280  Counseling Skills Lab  2
EDC 475  Counseling Practicum  3
EDC 480  Field Study In Counseling  Taken twice, 3 units each, over two separate semesters, in order to meet accreditation requirements.  6

Total Units  44

1  Minimum GPA: 3.0
2  Academic Residence: A minimum of 42 approved semester units in 100-, 200-, and 500-series offerings must be earned in residence at California State University, Sacramento.

Concentration Requirements
Marriage, Couple, and Family Counseling (15 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDC 212</td>
<td>Gender and Sexuality in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDC 234</td>
<td>Seminar: Marriage and Family Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDC 254</td>
<td>Counseling and Psychotropic Medicine</td>
<td>3</td>
</tr>
<tr>
<td>EDC 476</td>
<td>Advanced Skills in Marriage and Family Counseling</td>
<td>1</td>
</tr>
<tr>
<td>Elective: Select ONE of the following 2-unit courses: EDC 236 or EDC 238</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDC 238</td>
<td>Professional Issues in Marriage Couple and Family Counseling</td>
<td>2</td>
</tr>
<tr>
<td>EDC 236</td>
<td>Couples Counseling</td>
<td>2</td>
</tr>
<tr>
<td>Elective: Select ONE of the following 3-unit courses: EDC 272 or EDC 242</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDC 272</td>
<td>Counseling Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>EDC 242</td>
<td>Play and Art in Therapy with Children</td>
<td>3</td>
</tr>
</tbody>
</table>

Culminating Requirement (1 Unit)
All students in the M.S. in Counseling program must enroll in EDC 500 during their final semester in the program and complete the Counselor Preparation Comprehensive Examination (CPCE). Students must have an Advancement to Candidacy on file prior to enrollment in this culminating experience.

In order to pass this multiple choice examination, a student must meet the minimum criterion score set by the Counselor Education Program. Categories covered include:

- Human Growth and Development
- Social and Cultural Foundations
- Helping Relationships
- Group Work
- Career and Lifestyle Development
- Appraisal
- Research and Program Evaluation
- Professional Orientation and Ethics

1 Department petition required the semester prior to enrollment.

MS in Counseling (Rehabilitation Counseling)

Total units required for MS: 60

Program Description
The 60-unit Master of Science in Counseling prepares professional counselors for employment in a variety of settings such as public and private agencies, universities and colleges, schools and private practice. This degree meets the educational requirements for becoming a Licensed Professional Clinical Counselor (LPCC) in the State of California.

The MS Counseling program is clinically oriented, with didactic and experiential courses, a 100-hour clinical practicum, and 600 hours of field experience. The program is a full time three-year program and students will take between 9-12 units each fall and spring to complete within the three years. Students are admitted into a cohort and will follow the course sequence designated by their program concentration. The cohort model allows students to advance together throughout their education while building support and connections within their peer group. Students are encouraged to advance their advocacy and professional experiences through such activities as participation in professional organizations, research, and presentations at the state, regional, and national level; involvement in the CSUS Multicultural Conference; (https://www.csus.edu/college/education/engagement/mce_confERENCE/) Counselor Education Symposium, and/or involvement in our Chi Sigma Sigma chapter of Chi Sigma Iota. Both leadership and research opportunities are supported through faculty mentorship. The curricular experience is organized around core foundation courses, an intensive on-campus practicum training clinic experience, interpersonal growth experiences, advanced theory and practice courses, and a culminating field study placement.

Rehabilitation Counseling Concentration
- The MS in Counseling program, and Rehabilitation Counseling concentration, is designed to provide all the educational competencies required by the California State Board of Behavioral Sciences (BBS) for licensure as Licensed Professional Clinical Counselor (LPCC). The Rehabilitation Counseling concentration will prepare graduates with specialized skills to help individuals with cognitive, physical, sensory, psychiatric, and other disabilities work through a variety of mental health issues and provide treatment of mental disorders, including co-occurring disorders. Students will be practice skills within the principles and practices of clinical counseling such as assessment, diagnosis, treatment, referral, and prevention. Rehabilitation Counselors work in a wide variety of settings including private practice, community-based mental health facilities, substance treatment facilities, schools, hospitals and/or other treatment centers, private agencies, college campuses, and state agencies.
- This concentration trains Rehabilitation Counselors to consider the medical, psychosocial, family, co-occurring substance use trauma, and environmental influences on disability and the individual's ability to function in their environment. Rehabilitation Counselors are trained to identify and implement interventions to optimize rehabilitative functioning.
- The program includes training in counseling techniques, medical and psychosocial aspects of disability, comorbid conditions, diagnosis and treatment planning, and the potential for trauma and substance
use disorders to mimic and/or co-occur with a variety of neurological, medical, and psychological disorders.

- Students in the Rehabilitation program are eligible for their Licensed Professional Clinical Counselor (LPCC) license and Certified Rehabilitation Counselor (CRC) credential.

Note: Only students who are already enrolled in the School Counseling Concentration at California State University, Sacramento may apply to the Pupil Personnel Services School Counseling Internship Credential Program (p. 492).

The MS Counseling: Career Counseling; Marriage, Couple and Family Counseling; Rehabilitation Counseling; and School Counseling concentrations at Sacramento State are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP (https://www.cacrep.org/)).

Note: For additional information on credentials, see the “College of Education” section of this catalog. Program requirements are subject to change in order to maintain compliance with relevant state and national certification, licensure, and/or accreditation requirements. Interested parties should refer to the current student handbook for up to date program information.

Special Features
- An on-campus Center for Counseling and Diagnostic Services brings clients from off campus to be counseled by students in the program and provides opportunity for video and audio feedback.
- Trainees provide off-campus counseling in local agencies, school districts, hospitals, and non-profit organizations.
- The Masters in Counseling Program and participating school districts collaborate with the Migrant Education Advisor Program (MEAP), which is a collaborative partnership with the Office of Migrant Education.
- Faculty actively support diversity and focus on multicultural counseling skills throughout the curriculum.
- Classes are offered during the morning, afternoon, and evening.

Admission Requirements
Admission as a classified graduate student in the Master of Science in Counseling program requires:

- A baccalaureate degree;
- Good academic standing at the last college attended;
- A grade point average of at least 3.0 (on a 4.0 scale) in the last 60 semester (or 90 quarter units);
- Completion of the University application materials;
- Completion and submission of all Departmental application materials which include:
  - Application form;
  - Written statements delineated in application, including a Personal Statement and Writing Prompt;
  - Copies of transcripts (from all universities and colleges attended);
  - Professional letters of recommendation (2 required);
  - Relevant work experience via a Resume/CV.
- Participation in an In-Person Admission Evaluation, which may include (but is not limited to) interviews, experiential activities, and writing samples.

Selected applicants, based on paper screening of completed applications, will be invited for an In-Person Admission Evaluation. Decisions for admission into the Master of Science in Counseling program are made based on a comprehensive assessment of all application materials and performance in the In-Person Admission Evaluation.

Admission Procedure
The M.S. in Counseling accepts applications each fall for admission the following year. The program does not offer spring admissions. Applicants must complete a university application and program supplemental application by the posted application deadline date for the term applying.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/).

Prospective applicants, including Sacramento State graduates, must submit one set of official transcripts from all colleges and universities attended, other than Sacramento State, to the Office of Graduate Studies either electronically to gradtranscripts@csus.edu or physical transcripts for those institutions that do not send official transcripts electronically can be addressed to:

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Riverfront Center, Room 215, MS 6112
6000 J St.
Sacramento, CA 95819

Admission is competitive with a limited number of students admitted each year. At the end of the application and screening period, a program recommendation will be submitted to the Office of Graduate Studies for further review. Decisions regarding admission are then emailed to each applicant. Following admission, students are assigned to a faculty advisor who assists with academic advising.

Students are strongly advised to remain in communication with the Counselor Education Program (by attending group advising sessions and meeting with their assigned faculty advisor each semester) as well as with any licensing or credentialing boards related to their area(s) of specialization (i.e., California Board of Behavioral Sciences, Commission on Rehabilitation Counselor Certification) since licensing and credentialing requirements may change. Catalog rights hold only degree requirements; they do not protect students from changes such as prerequisites required for a given course, field study hours, individual course requirements, or additional requirements imposed by licensing or credentialing agents. Students should note that the Counselor Education course listings are subject to modification.

Minimum Units and Grade Requirement for the Degree
Units required for the MS: 60
Minimum Cumulative GPA: 3.0

Advancement to Candidacy
Each student working toward a Master’s degree must file an application for Advancement to Candidacy for the Master’s degree. The purpose of this application is to provide certification to the Office of Graduate Studies that the student will complete or has completed the necessary requirements and acceptable electives for the Master’s degree with a minimum 3.0 GPA. The Advancement to Candidacy application should
be filed upon completion of 30 units in the program but typically our students complete this in their final year of our program.

**Note:** Students must meet the Graduation Writing Assessment Requirement (GWAR) before advancing to candidacy. Our EDC 250 serves as our Graduate Writing Intensive (GWI) course to advance to candidacy.

The Advancement to Candidacy form is submitted online. Students should complete the relevant form in consultation with their assigned academic advisor. Once the form is endorsed by the student and the advisor, it will be verified by the Department’s Graduate Coordinator and then forwarded to the Office of Graduate Studies for final approval. An Advancement to Candidacy must be on file prior to submitting a Petition to Graduate to the Office of Graduate Studies.

For Counselor Education information please visit the College of Education: Master’s Programs Website (https://www.csus.edu/college/education/masters-programs/) where you will find the Counselor Education webpage (https://www.csus.edu/college/education/masters-programs/counselor-education.html) and under the “Current Students” link, the Forms and Handbooks (https://www.csus.edu/college/education/masters-programs/current-students.html) page where you can obtain the Student Handbook. It is highly recommended that students read the Student Handbook.

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**Culminating Requirement (1 Unit)**

All students in the M.S. in Counseling program must enroll in EDC 500 during their final semester in the program and complete the Counselor Preparation Comprehensive Examination (CPCE).

In order to pass this multiple choice examination, a student must meet the minimum criterion score set by the Counselor Education Program. Categories covered include:

- Human Growth and Development
- Social and Cultural Foundations
- Helping Relationships
- Group Work
- Career and Lifestyle Development
- Appraisal
- Research and Program Evaluation
- Professional Orientation and Ethics

1 Department petition required the semester prior to enrollment.

### MS in Counseling (School Counseling with Embedded PPS Credential)

**Total units required for MS: 60**

**Program Description**

The 60-unit Master of Science in Counseling prepares professional counselors for employment in a variety of settings such as public and private agencies, universities and colleges, schools and private practice. This degree meets the educational requirements for becoming a Licensed Marriage and Family Therapist (LMFT) and/or a Licensed Professional Clinical Counselor (LPCC) in the State of California. The 59-unit Pupil Personnel Services, School Counseling Credential prepares professional counselors for work within the K-12 educational system.

The programs are clinically oriented, with didactic and experiential courses, a 100-hour clinical practicum, and 600 hours of field experience. The program is a full time three-year program and students will take between 9-12 units each fall and spring to complete within the three years. Students are admitted into a cohort and will follow the course sequence designated by their program concentration. The cohort model allows students to advance together throughout their education while building support and connections within their peer group. Students are encouraged to advance their advocacy and professional experiences through such activities as participation in professional organizations, research, and presentations at the local, state, regional, and national level; involvement in the CSUS Multicultural Conference; (https://www.csus.edu/college/education/engagement/mce_conference/) and/or in the Counselor Education Student Counseling Society. Both leadership and research opportunities are supported through faculty mentorship. The curricular experience is organized around core foundation courses, an intensive on-campus practicum training clinic...
experience, interpersonal growth experiences, advanced theory and practice courses, and a culminating field study placement.

**School Counseling Concentration**

- The School Counseling Concentration is designed for individuals who seek to become elementary, middle, or secondary school counselors. This program meets the requirements for the K-12 California Pupil Personnel Services Credential, School Counseling (PPS-SC). Students in this program are prepared to function as key members of an educational team seeking to optimize children's academic, socio-emotional, and career development. Students obtain the expertise necessary to lead the educational team in working collaboratively with a broad range of education and human service professionals, paraprofessionals, and community representatives to identify, develop, implement, and evaluate programs that provide key services to both the individual child as well as the systems and subsystems in which the child interacts.

- Commission on Teacher Credentialing (CCTC) requires 600 hours of field study, therefore the School Counseling students will complete a 60 unit program.

- The School Counseling Concentration is also designed to provide students with all the educational competencies required by the California State Board of Behavioral Sciences (BBS) for licensure as a Licensed Professional Clinical Counselor (LPCC). The program is CACREP aligned which supports LPCC eligibility and meets most out of state standards for students wishing to move states where CACREP is required.

Students in the School Counseling Concentration who intend to be employed in California will need to obtain the Pupil Personnel Services Credential, School Counseling (PPS-SC).

*Note: Only students who are already enrolled in the School Counseling concentration at California State University, Sacramento may apply to the Pupil Personnel Services School Counseling Internship Credential Program (p. 492). This credential is embedded within the master's degree, School Counseling concentration.*

The Career Counseling; Marriage, Couple, and Family Counseling; Rehabilitation Counseling, and School Counseling concentrations at Sacramento State are nationally accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The School Counseling concentration is accredited by the California Commission on Teacher Credentialing (CTC).

*Note: For additional information on credentials, see the "College of Education" section of this catalog. Program requirements are subject to change in order to maintain compliance with relevant state and national certification, licensure, and/or accreditation requirements. Interested parties should refer to the current student handbook for up to date program information.*

**Special Features**

- An on-campus Center for Counseling and Diagnostic Services brings clients from off campus to be counseled by students in the program and provides opportunity for video and audio feedback.

- The Masters in Counseling Program and participating school districts collaborate with the Migrant Education Advisor Program (MEAP), which is a collaborative partnership with the Office of Migrant Education.

- Faculty actively support diversity and focus on multicultural counseling skills throughout the curriculum.

- Classes are offered during the day, late afternoon, and evening.

**Admission Requirements**

Admission as a classified graduate student in the Master of Science in Counseling program requires:

- A baccalaureate degree;
- Good academic standing at the last college attended;
- A grade point average of at least 3.0 (on a 4.0 scale) in the last 60 semester (or 90 quarter units);
- Completion of the University application materials;
- Completion and submission of all Departmental application materials which include:
  - Application form;
  - Written statements delineated in application, including Personal Statement and Writing Prompt;
  - Copies of transcripts (from all universities and colleges attended);
  - Professional letters of recommendation (2 required);
  - Relevant work experience via a Resume/CV.
- Participation in an In-Person Admission Evaluation, which may include (but is not limited to) interviews, experiential activities, and writing samples.

*Selected applicants, based on paper screening of completed applications, will be invited for an In-Person Admission Evaluation. Decisions for admission into the Master of Science in Counseling program are made based on a comprehensive assessment of all application materials and performance in the In-Person Admission Evaluation.*

Individuals must satisfy the basic skills requirement by one of the CTC approved methods prior to receiving the Pupil Personnel Services Credentials.

**Admission Procedure**

The M.S. in Counseling accepts applications each fall for admission the following year. The program does not offer spring admissions. Applicants must complete a university application and program supplemental application by the posted application deadline date for the term applying.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website ([https://www.csus.edu/graduate-studies/](https://www.csus.edu/graduate-studies/)).

Prospective applicants, including Sacramento State graduates, must submit one set of official transcripts from all colleges and universities attended, other than Sacramento State, to the Office of Graduate Studies either electronically to gradtranscripts@csus.edu or physical transcripts for those institutions that do not send official transcripts electronically can be addressed to:

**Office of Graduate Studies**
California State University, Sacramento
Riverfront Center, Room 215, MS 6112
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Sacramento, CA 95819

Admission is competitive with a limited number of students admitted each year. At the end of the application and screening period, a program recommendation will be submitted to the Office of Graduate Studies.
for further review. Decisions regarding admission are then emailed to each applicant. Following admission, students are assigned to a faculty advisor who assists with academic advising.

The Master of Science in Counseling and the Pupil Personnel Services credentials are subject to general University requirements. These requirements are explained in the "Graduate Degree Requirements'' and the "Counselor Education'' sections of this catalog. Students may be disqualified when not meeting program standards (see Counselor Education Student Handbook).

**Minimum Units and Grade Requirement for the Degree**

Units required for the MS: 60

Minimum Cumulative GPA: 3.0

**Advancement to Candidacy**

Each student working toward a Master’s degree must file an application for Advancement to Candidacy for the Master’s degree. The purpose of this application is to provide certification to the Office of Graduate Studies that the student will complete or has completed the necessary requirements and acceptable electives for the Master’s degree with a minimum 3.0 GPA. The Advancement to Candidacy application should be filed upon completion of 30 units in the program but typically students complete this in their final year of our program.

**Note:** Students must meet the Graduation Writing Assessment Requirement (GWAR) before advancing to candidacy. Our EDC 250 serves as our Graduate Writing Intensive (GWI) course to advance to candidacy.

The Advancement to Candidacy form is submitted online. Students should complete the relevant form in consultation with their assigned academic advisor. Once the form is endorsed by the student and the advisor, it will be verified by the Department’s Graduate Coordinator and then forwarded to the Office of Graduate Studies for final approval. An Advancement to Candidacy must be on file prior to submitting a Petition to Graduate to the Office of Graduate Studies.

For Counselor Education information please visit the College of Education: Master’s Programs Website (https://www.csus.edu/college/education/masters-programs/) where you will find the Counselor Education webpage (https://www.csus.edu/college/education/masters-programs/counselor-education.html) and under the “Current Students” link, the Forms and Handbooks (https://www.csus.edu/college/education/masters-programs/current-students.html) page where you can obtain the Student Handbook. It is highly recommended that students read the Student Handbook.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>EDC 210</td>
<td>Advocacy, Social Justice, and Cultural Foundations in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDC 214</td>
<td>Dynamics of Human Development</td>
<td>3</td>
</tr>
<tr>
<td>EDC 216</td>
<td>Counseling Theory</td>
<td>3</td>
</tr>
<tr>
<td>EDC 218</td>
<td>Assessment In Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDC 219</td>
<td>Group Processes in Counseling</td>
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</tr>
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<td>EDC 231</td>
<td>Diagnosis and Treatment Planning</td>
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<td>EDC 233</td>
<td>Substance Use and Addiction Counseling</td>
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</tr>
<tr>
<td>EDC 244</td>
<td>Trauma and Crisis Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDC 250</td>
<td>Education Research</td>
<td>3</td>
</tr>
<tr>
<td>EDC 252</td>
<td>Legal and Ethical Issues in Professional Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDC 260</td>
<td>Career Development</td>
<td>3</td>
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<tr>
<td>EDC 280</td>
<td>Counseling Skills Lab</td>
<td>2</td>
</tr>
<tr>
<td>EDC 475</td>
<td>Counseling Practicum</td>
<td>3</td>
</tr>
<tr>
<td>EDC 480</td>
<td>Field Study In Counseling</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Units:** 44

1. Minimum GPA: 3.0

2. Academic Residence: A minimum of 42 approved semester units in 100-, 200-, and 500-series offerings must be earned in residence at California State University, Sacramento.

**Concentration Requirements**

**School Counseling (15 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EDC 215</td>
<td>Foundations of Professional School Counseling</td>
<td>3</td>
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<tr>
<td>EDC 242</td>
<td>Play and Art in Therapy with Children</td>
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<tr>
<td>EDC 270</td>
<td>Organization and Administration of School Counseling Programs</td>
<td>3</td>
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<tr>
<td>EDC 272</td>
<td>Counseling Children and Youth</td>
<td>3</td>
</tr>
<tr>
<td>EDC 274</td>
<td>Advocacy and Systemic Change in School Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units:** 15

**Culminating Requirement (1 Unit)**

All students in the M.S. in Counseling program must enroll in EDC 500 during their final semester in the program and complete the Counselor Preparation Comprehensive Examination (CPCE).

In order to pass this multiple choice examination, a student must meet the minimum criterion score set by the Counselor Education Program. Categories covered include:

- Human Growth and Development
- Social and Cultural Foundations
- Helping Relationships
- Group Work
- Career and Lifestyle Development
- Appraisal
- Research and Program Evaluation
- Professional Orientation and Ethics

1. Department petition required the semester prior to enrollment.

**Preliminary Administrative Services Credential**

Total units required for Credential: 24

**Program Description**

Educational Leadership and Policy Studies’ Preliminary Administrative Services Credential program aims to develop P-12 educational leaders from diverse backgrounds who will positively impact P-12 educational
settings. The program specifically focuses on cultivating leaders who promote learning, equity, social justice and achievement for all students.

Educational Leadership and Policy Studies seeks to prepare transformational leaders with the capacity to effectively facilitate and manage change.

**Admission Requirements**

1. Completion of a baccalaureate degree at the time of application;
2. GPA in the last 60 units of 2.5 or better;
3. Completion, and successful review, of CSU Mentor and program Supplemental application;
4. A minimum of 4 years teaching experience in a P-12 educational setting; and
5. Successful interview with faculty, demonstrating:
   - Preparation for graduate level study
   - Leadership experience
   - Familiarity with current issues in education
   - Knowledge of conflict resolution and negotiation skills
   - Knowledge of P-12 education as a field
   - Entry level understanding of ethical leadership
   - Vision for P-12 education

**Admission Procedures**

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 86) section of the University Catalog.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<th>Units</th>
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<tbody>
<tr>
<td>EDLP 200</td>
<td>Diversity and Equity in Educational Leadership</td>
<td>3</td>
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<tr>
<td>EDLP 201</td>
<td>Foundations of Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 202</td>
<td>School Law and Ethics of Educational Leadership,Education Law and Ethics of Educational Leadership</td>
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<tr>
<td>EDLP 203</td>
<td>Foundations of Educational Leadership,School Finance</td>
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<tr>
<td>EDLP 205 Instructional Leadership (New Course Approved)</td>
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<tr>
<td>EDLP 209 Organizational Systems and Human Resources (New Course Approved)</td>
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**Required Courses (18 Units)**

**Required Direct Field Experience (6 Units)**

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>EDLP 495B Field Study in Educational Leadership (New Course Proposed)</td>
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<td></td>
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</tbody>
</table>

**Total Units**

1. To be taken fall semester.
2. To be taken spring semester.
3. To be taken in summer session.

### Preliminary Administrative Services Internship Credential

Total units required for Credential: 68

**Program Description**

Educational Leadership and Policy Studies' Preliminary Administrative Services Credential program aims to develop P-12 educational leaders from diverse backgrounds who will positively impact P-12 educational settings. The program specifically focuses on cultivating leaders who promote learning, equity, social justice and achievement for all students.

Educational Leadership and Policy Studies seeks to prepare transformational leaders with the capacity to effectively facilitate and manage change.

**Admission Requirements**

1. Completion of a baccalaureate degree at the time of application;
2. GPA in the last 60 units of 2.5 or better;
3. Completion, and successful review, of CSU Mentor and program Supplemental application;
4. A minimum of 4 years teaching experience in a P-12 educational setting; and
5. Successful interview with faculty, demonstrating:
   - Preparation for graduate level study
   - Leadership experience
   - Familiarity with current issues in education
   - Knowledge of conflict resolution and negotiation skills
   - Knowledge of P-12 education as a field
   - Entry level understanding of ethical leadership
   - Vision for P-12 education

**Program Requirements**

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<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>EDLP 200A</td>
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<td>EDLP 201A</td>
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<td>EDLP 255</td>
<td>Field Experience Seminar</td>
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<td>EDLP 401</td>
<td>Internship On-the-Job Experience</td>
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<tr>
<td>EDLP 402</td>
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<td>EDLP 403</td>
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<td>EDLP 413</td>
<td>Supplemental Internship Experience</td>
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**Interns that require an additional semester may take the following classes (14 Units)**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EDLP 404</td>
<td>Internship On-the-Job Experience</td>
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<tr>
<td>EDLP 414</td>
<td>Supplemental Internship Experience</td>
<td>6</td>
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</tbody>
</table>

**Other Required coursework (3 Units)**
EDLP 202A 3
EDLP 203A 3
EDLP 205A 2
EDLP 209A 2
EDLP 250 Education Research 1 3

Total Units 50

1 Courses taken first semester
2 Courses taken second semester
3 Courses taken third semester
4 Courses taken fourth semester.

This is a three semester program but students will have the option of taking an additional (fourth) semester if needed.

Pupil Personnel Services School Counseling Credential

Total units required for Credential: 59

Program Description

California schools, kindergarten through high school, require their school counselors to have the PPS-SC. Students pursuing the 59-unit PPS-SC Credential follow the exact same course requirements as students with the 60-unit Master’s in Counseling Degree objective who are specializing in school counseling, with the exception of a 1-unit Culminating Requirement. The 60-unit master’s degree is not required, although most students elect to complete the degree. In addition to the PPS-SC course requirements, individuals who obtain the credential must pass the California Basic Educational Skills Test (CBEST), required for all TK-12 credentials in California. The program meets all standards established by the California Commission for Teacher Credentialing (CCTC).

Students pursuing the Pupil Personnel Services School Counseling Credential follow the same course requirements, with the exception of the Culminating Requirement, as do master’s degree students with the School Counseling specialization objective.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>EDC 210</td>
<td>Advocacy, Social Justice, and Cultural Foundations in Counseling</td>
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<td>Diagnosis and Treatment Planning</td>
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<td>Education Research</td>
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<td>Legal and Ethical Issues in Professional Counseling</td>
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<td>Organization and Administration of School Counseling Programs</td>
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<td>EDC 280</td>
<td>Counseling Skills Lab</td>
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<td>EDC 475</td>
<td>Counseling Practicum</td>
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<tr>
<td>EDC 480</td>
<td>Field Study In Counseling 1</td>
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</tbody>
</table>

1 EDC 480 must be taken twice, over two separate semesters, in order to meet accreditation requirements.

Pupil Personnel Services School Counseling Internship Credential

Total units required for Credential: 59

Program Description

The PPS-SCI enables school districts and other educational agencies to place candidates in school counseling positions prior to the completion of credential requirements, provided that the CBEST and practicum coursework have been passed. Requests must originate in writing from the district superintendent or other appropriate officers. The program meets all standards established by the California Commission for Teacher Credentialing (CCTC).

The Pupil Personnel Services Internship Credential Program is limited only to students who are already classified students in the Department of Counselor Education in the School Counseling Specialization. This program is not open to applicants from other institutions.

Admission Requirements

Requests to enter the Pupil Personnel Services School Counseling Internship Credential program must originate in writing from the district superintendent or other appropriate officer stating that the individual is in a position or being offered a position (for the duration of at least one year) which requires the authorization of a Pupil Personnel Services Credential in School Counseling.

Individuals must satisfy the basic skills requirement by one of the CTC approved methods prior to receiving the Pupil Personnel Services Internship Credential.

Program Requirements

<table>
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<td>EDC 215</td>
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<td>Counseling Theory</td>
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<td>EDC 260</td>
<td>Career Development</td>
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<tr>
<td>EDC 280</td>
<td>Counseling Skills Lab</td>
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<td>EDC 475</td>
<td>Counseling Practicum</td>
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<tr>
<td>EDC 480</td>
<td>Field Study In Counseling ¹</td>
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</tr>
</tbody>
</table>

¹ EDC 480 must be taken twice, over two separate semesters, in order to meet accreditation requirements.

**Pupil Personnel Services School Psychology Endorsement Credential**

**Total units required for Credential: 91-95**

**Program Description**

The Pupil Personnel Services School Psychology Endorsement Credential is administered by the California Commission on Teacher Credentialing (CCTC). California State University, Sacramento, is accredited by the CCTC to award this credential to students meeting program requirements. The credential is required to practice as a school psychologist in the state of California. Possession of the MA in School Psychology or its equivalent, and the Pupil Personnel Services School Psychology Endorsement Credential also prepares an individual to meet the academic requirements for California’s Licensed Educational Psychologist license administered by the Board of Behavioral Science Examiners, California Department of Consumer Affairs.

Unique strengths of the program include supervised training in a clinic setting, early field experience that includes a minimum 325-hour field placement in public school settings, and instruction by faculty who hold school psychology credentials.

The program also offers a School Psychology Internship Program. The internship is typically paid and interns are selected by employing districts. Students are not eligible for the School Psychology Internship Program until they are ready to register for EDS 441A, Internship in School Psychology. For the full time student this usually occurs in the fifth semester of the program. A minimum 1,200-hour internship, completed in not more than four semesters, is required and must be approved by the School Psychology Program’s Internship Coordinator.

**Program Requirements**

The Pupil Personnel Services School Psychology Endorsement Credential requires the program outlined for the MA in School Psychology (p. 479) plus additional coursework. The requirements listed below include both MA in School Psychology courses AND the practicum and fieldwork requirements that are unique to the Pupil Personnel Services School Psychology Endorsement Credential.

**Note.** Students who were awarded an appropriate graduate degree prior to beginning the Pupil Personnel Services School Psychology Endorsement Credential may (with the approval of relevant faculty) substitute prior course work for selected courses listed in this Plan of Study Grid.

**Year 1**

<table>
<thead>
<tr>
<th>Semester 1: Fall</th>
<th>Units</th>
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<tbody>
<tr>
<td>EPSY 231 Group Process in School Psychology</td>
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<tr>
<td>EPSY 245 Psychology In The Schools</td>
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<tr>
<td>EPSY 248 Human Development and Learning</td>
<td>3</td>
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<tr>
<td>EPSY 201 Legal Aspects of Special Education</td>
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<td>EPSY 221 Equity Considerations for School Psychologists</td>
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<table>
<thead>
<tr>
<th>Semester 2: Spring</th>
<th>Units</th>
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<tbody>
<tr>
<td>EPSY 241 Counseling and Psychotherapy for School Psychologists</td>
<td>3</td>
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<tr>
<td>EPSY 242A Cognitive Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EPSY 242B Cognitive Assessment Lab</td>
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<tr>
<td>EPSY 440 Practicum in Individual Counseling/School Psychology</td>
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<td>EPSY 250 Educational Research</td>
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**Year 2**

<table>
<thead>
<tr>
<th>Semester 3: Fall</th>
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<tr>
<td>EPSY 240 Functional Assessment of Behavior</td>
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<td>EPSY 243A Assessment Practicum A</td>
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<td>EPSY 244 Social, Emotional and Behavioral Assessment</td>
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<td>EPSY 246A Preventive Academic Interventions</td>
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<td>EPSY 439A Early Fieldwork in School Psychology</td>
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<tr>
<th>Semester 4: Spring</th>
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<tr>
<td>EPSY 243B Assessment Practicum</td>
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<td>EPSY 247 Assessment of Special Needs</td>
<td>3</td>
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<td>EPSY 246B Preventive Mental Health Interventions</td>
<td>3</td>
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<tr>
<td>EPSY 439B Early Fieldwork in School Psychology</td>
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<tr>
<td>EPSY 249 Special Seminar: School Psychology</td>
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**Year 3**

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<thead>
<tr>
<th>Semester 5: Fall</th>
<th>Units</th>
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<tbody>
<tr>
<td>EPSY 441A Internship in School Psychology</td>
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<table>
<thead>
<tr>
<th>Semester 6: Spring</th>
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</thead>
<tbody>
<tr>
<td>EPSY 441B Internship in School Psychology</td>
<td>15</td>
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</tbody>
</table>

**Total Units** 91-95

**Reading/Language Arts Specialist Credential**

**Total units required for Credential: 24**
Program Description

A graduate student may earn a Reading/Language Arts Specialist Credential (issued by CCTC) by completing the courses listed below. This credential prepares teachers for literacy related teaching positions pre-K to 12 as well as for leadership roles at school and district levels. Enrollment in the Master’s program is not required provided that the following admission requirements are met.

Note: Teachers must have three years of teaching experience before the Reading/Language Arts Specialist Credential can be awarded.

Admission Requirements

Admission to the Reading/Language Arts Specialist Credential requires:

- a valid California Basic Teaching Credential (e.g., Multiple Subject or Single Subject Credential);
- a minimum 3.0 GPA in the last 60 units;
- successful completion of a basic course in the Teaching of Reading from an accredited university; if reading methods course is older than seven years, must show evidence of: a) current staff development in Language and Literacy by participation in workshops, institutes, etc., (candidates must show documentation); or b) passing the RICA test within the past seven years; and
- completion of the Reading/Language Arts Specialist Credential Application (available in Eureka Hall 203 and on the College of Education’s website (http://csus.edu/coe/).)

Program Requirements

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<tr>
<th>Code</th>
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<th>Units</th>
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<tbody>
<tr>
<td>EDLL 200</td>
<td>Practicum in Decoding and Fluency: Assessment and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 201</td>
<td>Practicum in Comprehension: Assessment and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDLL 203</td>
<td>Teaching and Assessing Writing in the Pre-K through 12 Classroom</td>
<td>3</td>
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<tr>
<td>EDLL 205</td>
<td>Psychology and Sociology of Literacy Instruction</td>
<td>3</td>
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<tr>
<td>EDLL 202</td>
<td>Language and Literacy Development in Multicultural Settings</td>
<td>3</td>
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<tr>
<td>EDLL 206</td>
<td>Leadership In Literacy</td>
<td>3</td>
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<tr>
<td>EDLL 207</td>
<td>Advanced Practicum in Reading Difficulties: Assessment and Intervention</td>
<td>3</td>
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<tr>
<td>EDLL 209</td>
<td>Literature for the Diverse Pre-K through 12 Classroom: Issues, Models and Strategies</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 24

Teaching Credentials

College of Education

For more information, please visit our website: Teaching Credentials (https://www.csus.edu/college/education/teaching-credentials/)

Preliminary Teaching Credentials Programs

1. Master of Arts in Special Education Teaching (Education Specialist Early Childhood) (p. 520)
2. Master of Arts in Special Education Teaching (Extensive Support Needs) (p. 523)
3. Master of Arts in Special Education Teaching (Extensive Support Needs) with Multiple Subject (p. 526)
4. Master of Arts in Special Education Teaching (Mild to Moderate Support Needs) (p. 530)
5. Master of Arts in Special Education Teaching (Mild to Moderate Support Needs) With Multiple Subject (p. 533)
6. Master of Arts in Teaching (Multiple Subject) (p. 537)
7. Master of Arts in Teaching (Single Subject) (p. 540)

Accreditation

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, our teacher education programs are accredited by the California Commission on Teacher Credentialing.

Bilingual Authorization

All credential candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong) can complete additional requirements to add the Bilingual Authorization (https://www.csus.edu/college/education/teaching-credentials/authorizations.html) in Spanish or Hmong.

Supplementary Authorizations

All credential candidates are eligible to add a variety of supplementary authorizations (https://www.csus.edu/college/education/teaching-credentials/authorizations.html) to the basic teaching credential.

Notice to Students RE: Professional Licensure and Certification

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Contact Information

Dr. Jenna Porter, Chair
Linda Lugea, Administrative Analyst/Specialist
Eureka Hall 401
(916) 278-6639
Teaching Credentials Website (https://www.csus.edu/college/education/teaching-credentials/)
EDMS 213. Strategies for Inclusive Classrooms: Multiple Subject. 3 Units
Prerequisite(s): Admission into a teacher preparation program.
Term Typically Offered: Fall, Spring

This course provides multiple subject and special education candidates with dispositions, knowledge, and skills needed to serve students with disabilities in general education classrooms. Strategies specific to students in their least restrictive environment will be covered emphasizing Universal Design for Learning, Multi-Tiered Systems of Support, social-emotional learning, co-teaching, differentiated instruction, roles and responsibilities of special/general education teachers, peer mediated learning strategies, modifications of standards and learning outcomes for students with disabilities, and assistive technology (low and high tech adaptations).
Cross listed: EDSS 282/EDSP 293/EDMS 213

EDMS 232. Assessment Center Laboratory for Multiple Subject Candidates. 2 Units
Corequisite(s): EDMS 430B or EDMS 434B or EDSP 420B.
Term Typically Offered: Fall, Spring

Individualized support to guide multiple subject candidates through the process of completing and submitting the culminating Teaching Performance Assessment (TPA) mandated by the program’s accrediting body and completion of their electronic program portfolio. The signature assignments, formative TPA assessments and summative TPA Teaching Event represent an electronic portfolio embedded throughout the program. In addition, the candidates will complete an annotated bibliography for readings across the credential program.
Credit/No Credit

EDMS 234A. Foundations of Teaching in a Diverse K-8 Classroom - A. 1 Unit
Prerequisite(s): Admission to the Multiple Subject Teacher Credential Program or the Master of Arts in Teaching with Multiple Subject Teaching Credential Program.
Corequisite(s): EDMS 234B
Term Typically Offered: Fall, Spring

Introduction to critical analysis of purpose and process of elementary level public schooling in the U.S. Examination of sociopolitical contexts of public schools and society; educational theories, philosophies, notions of culture and social justice, community and educational practice. Engagement with sociocultural, historical, and philosophical foundations of education, multicultural education, learning theories, and theories of cognitive and social development. Candidates examine own biases and work to mitigate negative impact on student learning. This lecture course paired with breakout discussion (EDMS 234B).
EDMS 234B. Foundations of Teaching in a Diverse K-8 classroom - B.  2 Units
Prerequisite(s): Admission to the Multiple Subject Teacher Credential Program or the MA in Teaching with Multiple Subject Credential Program.
Corequisite(s): EDMS 234A
Term Typically Offered: Fall, Spring
Introduction to critical analysis of purpose and process of elementary level public schooling in the U.S. Examination of sociopolitical contexts of public schools and society; educational theories, philosophies, notions of culture and social justice, community and educational practice. Engagement with sociocultural, historical, and philosophical foundations of education, multicultural education, learning theories, and theories of cognitive and social development. Candidates examine own biases and work to mitigate negative impact on student learning. This discussion course paired with lecture (EDMS 234A).

EDMS 235A. Advanced Principles of Teaching in a Diverse K-8 Classroom - A.  1 Unit
Corequisite(s): EDMS 235B
Term Typically Offered: Fall, Spring
This course is the lecture portion of a two-course series. It deepens candidates' knowledge of theories and practices necessary to execute the Plan-Instruct-Assess-Reflect cycle of mindful teaching for diverse students. Candidates will expand their understandings of how theoretical frameworks for teaching (learning theory, human development theory, multicultural education, inclusive and differentiated education, assessment frameworks, and models of teaching and curriculum planning) are applied in varied public school classrooms and contexts.

EDMS 235B. Advanced Principles of Teaching in a Diverse K-8 Classroom - B.  1 Unit
Corequisite(s): EDMS 235A
Term Typically Offered: Fall, Spring
This course is the discussion portion in a two-course series. In this course, candidates translate theories, concepts and frameworks presented in Advanced Principles of Teaching A into strategies and practices for instruction, assessment, and curriculum development in the K-8 classroom. Candidates will create activities, develop lesson and unit plans that integrate and apply various theories and frameworks for instruction. Candidates will design, lead and engage in simulations, peer teaching, and workshops.

EDMS 241. Action Research in Multicultural Settings.  5 Units
Prerequisite(s): Admission to the Master of Arts in Teaching with Multiple/Single Subject Teaching Credential program; Completion of EDMS 434B or EDMS 474B.
Term Typically Offered: Summer only
This course focuses on an introduction to Action Research in multicultural educational settings. It includes an overview of various research paradigms, with emphasis on Action Research and Teacher Action Research. Additional topics covered in this course include: critical pedagogy, forms of multicultural education, and issues related to educational equity and providing access of opportunity to students from underserved populations.

Cross listed: EDSS 241

EDMS 242. Critical Perspectives in Classroom Inquiry.  3 Units
Prerequisite(s): EDMS 241 or EDSS 241.
Term Typically Offered: Fall only
This course is part of the Master of Arts in Teaching with Multiple Subject Teaching Credential Program and builds on the knowledge that students gain in EDMS/EDSS 241. During this course students will complete a literature review of research related to their critical inquiry question. Students will additionally explore the historical and current trends in critical classroom inquiry and consider the implications for schools in diverse settings. Further course activities include developing a Classroom Inquiry Project and submitting the IRB.

Cross listed: EDSS 242.

EDMS 243. Data Collection for Action Research in Multicultural Settings.  3 Units
Prerequisite(s): EDMS 241 or EDSS 241.
Term Typically Offered: Fall only
This course builds students understanding of appropriate types and uses of data in Action Research in multicultural education settings. During this course students will be presented with the sociopolitical contexts for data collection and its subsequent use in educational policy. Students will apply theoretical knowledge by practicing to collect and initially interpreting multiple types of data. These experiences will lay the groundwork for students¿ development and implementation of the data collection plan for their own Classroom Inquiry Projects.

Cross listed: EDSS 243.

EDMS 244. Sociocultural & Sociopolitical Contexts of Data Analysis.  3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243
Term Typically Offered: Spring only
This course builds students¿ understanding of appropriate methods of data analysis in Teacher Action Research in multicultural education settings. Students will learn how data analysis has been used to interpret research in diverse school settings. Students will apply theoretical knowledge by analyzing multiple types of data sets form both qualitative and quantitative sources. These experiences will lay the groundwork for students¿ implementation of analysis of their own data for their Action Research inquiry projects.

Cross listed: EDSS 244

EDMS 272. Methods for Teaching Second Language Learners, Multiple Subject (ELD and SDAIE).  3 Units
Prerequisite(s): EDUC 170
Term Typically Offered: Fall, Spring
Focus on teaching candidates the methods, techniques and strategies needed to make content accessible for second language learners. Candidates will learn to use the state ELD standards to create ELD lessons and SDAIE lessons within multicultural framework. Candidates will also learn how to interpret and implement formative and summative assessments. Lecture, demonstration, modeling, group work, discussions, field experience.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term</th>
<th>Prerequisite(s)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDMS 299</td>
<td>Special Problems: Multiple Subject.</td>
<td>1-3</td>
<td>Fall, Spring</td>
<td>Admission by written approval of the instructor with whom the student will be working and the Department Chair. Note: This course may be repeated for up to 9 units of credit.</td>
<td>Credit/No Credit</td>
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<tr>
<td>EDMS 310C</td>
<td>Pedagogy C: Classroom Instruction and Positive Management for Diverse Classrooms</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Successful completion of EDMS 310B.</td>
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<tr>
<td>EDMS 314</td>
<td>Mathematics Curriculum and Instruction for the Diverse K-8 Classroom.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Focusing on a “meaning approach” to mathematics which prepares candidates to teach mathematics content standards for California public schools to all students, including English Learners and special needs; to use analytical and critical thinking skills in mathematics; and to infuse mathematics topics, themes, and concepts into other subject areas. Discussion, field visits, microteaching, demonstrations, presentations, and technological applications for mathematics will be included.</td>
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<tr>
<td>EDMS 315</td>
<td>History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Prepares teacher candidates in multiple subjects to teach the history-social science content standards for California public schools to all students, including English Learners and special needs; to use analytical and critical thinking skills in history and social science; and to integrate history-social science topics, themes, and concepts with other subject areas. Pedagogical topics include the use of timelines, maps, artifacts, case studies, simulations, literature, art, multiple perspectives, SDAIE, cooperative projects, and research activities.</td>
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<tr>
<td>EDMS 316</td>
<td>Science Curriculum and Instruction for the Diverse K-8 Classroom.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Knowledge of basic principles and strategies related to science education, incorporating an expanded treatment of science pedagogy, manipulatives, technological supports, accommodations, adaptive instructional techniques, and other strategies specially suited to the instruction of diverse student populations.</td>
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<tr>
<td>EDMS 317</td>
<td>Visual and Performing Arts Methods for the Diverse K-8 Classroom.</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Prepares candidates in a Multiple Subjects credential program to teach the visual and performing arts content standards for California public schools to all students, including English Learners, and special needs students. Preparation is through interrelated activities with involvement in specific teaching strategies which are effective in achieving the goals of developing artistic perception and creative expression, understanding the cultural and historical origins of the arts, making informed judgments about the arts, and understanding the arts connections and relationships across curriculum.</td>
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<tr>
<td>EDMS 319A</td>
<td>Language and Literacy I for the Diverse K-8 Classroom.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Develops understandings, attitudes, and competencies needed for effective instruction of language and literacy for mainstream populations, English Learners/Emergent Bilinguals, and students with special needs. Instructional strategies for teaching concepts about print, phonemic awareness, phonic, fluency, vocabulary, and comprehension of narrative/ informational/ argument texts with an emphasis on meaning making. Instructional planning aligned with current content standards and the Social Justice Standards. Informal and formal assessment strategies that inform planning and instruction foundational skills and reading comprehension. Lecture and discussion.</td>
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<tr>
<td>EDMS 319B</td>
<td>Language and Literacy II for the Diverse K-8 Classroom.</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Extends understandings, attitudes, and competencies needed for effective instruction of language and literacy related to writing instruction for mainstream populations, English Learners/Emergent Bilinguals, and students with special needs. Instructional strategies for teaching writing in various genres (narrative, informational, argument), formal and informal writing, conventions, writing to learn, response to reading, writing process, and writing across the curriculum. Instructional planning aligned with content standards and social justice teaching. Assessment strategies that inform planning and instruction of writing. Lecture and Discussion.</td>
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</tbody>
</table>
EDMS 330A. Educational Technology Lab I. 1 Unit
Prerequisite(s): Admission to Multiple Subject Credential Program.
Term Typically Offered: Fall only

Educational technology lab course will prepare the candidates use technology for three areas: coursework in the teaching credential program, enhancing teaching and learning and eportfolio development. Students are introduced to an array of digital technologies for teaching relevant for K-12 student learning. Among the topics include digital literacy, copyright, fair use, Internet safety, Creative Commons, presentation tools, ISTE standards, technology and Teaching Performance Expectations, presentation tools, interactive whiteboards, and many others. The focus is on students learning about technology use in teaching and learning in K-12 schools. Candidates are prepared to use technology in the Teaching Credential Program and for the development of an electronic portfolio.
Credit/No Credit

EDMS 330B. Educational Technology Lab II. 1 Unit
Prerequisite(s): EDMS 330A
Term Typically Offered: Spring only

In this course, candidates will learn to create, use, and manage appropriate and relevant educational technological processes and resources. The candidates will deepen their knowledge of technology in the K-12 public school environment and apply their understanding to improve student engagement and student learning outcomes. The candidates will also learn to use technology associated with the Teaching Credential Program and finalize their electronic portfolio for the program.
Credit/No Credit

EDMS 334C. Fundamentals of Teaching in a Diverse K-8 Classroom. 2 Units
Prerequisite(s): Admission into the Multiple Subject Credential Program or the MA in Teaching with Multiple Subject Teaching Credential program.
Term Typically Offered: Fall, Spring

This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive elementary classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students’ development as a teacher, curriculum development, and specific theories for instructional practice.

EDMS 401. Observation and Participation in Elementary Schools. 2 Units
Prerequisite(s): Admission to Teacher Preparation Program
Term Typically Offered: Fall, Spring

Observations in classes in several situations and grade levels; service as an assistant in at least one classroom. Visits to community agencies which serve the school population.
Credit/No Credit

EDMS 420A. Field Experience: Multiple Subject. 4 Units
Prerequisite(s): Admission to Teacher Preparation Program.
Term Typically Offered: Fall, Spring

Two semesters of student teaching multiple subjects in public school classrooms providing experiences at two grade levels and with different cultural groups. Intensive, realistic experiences with continuous and varied responsibilities. This first semester student teaching with integrated methods course work requires half-day participation. Experiences in classroom teaching and participation in many of the out-of-class duties of a teacher.
Credit/No Credit

EDMS 420B. Student Teaching: Multiple Subject. 10 Units
Prerequisite(s): Admission to Teacher Preparation Program.
Term Typically Offered: Fall, Spring

Second semester student teaching with integrated methods course work requires full-day participation of the student. Emphasis on classroom teaching and further experience with community services.
Credit/No Credit

EDMS 430A. Student Teaching I Basic. 5 Units
Prerequisite(s): Admission to Teacher Preparation Program
Term Typically Offered: Fall, Spring

One semester of teaching multiple subjects in a public school setting with diverse learners. This first semester of student teaching is completed concurrently with integrated coursework.
Credit/No Credit

EDMS 430B. Student Teaching II: Basic. 7 Units
Prerequisite(s): Admission to Teacher Preparation Program
Term Typically Offered: Fall, Spring

One semester of teaching multiple subjects in a public school setting with diverse learners. This second semester of student teaching is completed concurrently with integrated coursework and focuses primarily on planning, implementing, and assessing instruction for whole classes of students.
Credit/No Credit

EDMS 434A. Field Experience for Elementary Teachers. 6 Units
Prerequisite(s): Admission to the Multiple Subject Credential program
Term Typically Offered: Fall, Spring

Candidates complete field experience in public school classrooms concurrently with integrated coursework. Field experiences focus primarily on observing model lessons and activities and on collaborative planning, implementing and assessing instruction for small groups of students.
Credit/No Credit

EDMS 434B. Student Teaching for Elementary Teachers. 8 Units
Prerequisite(s): EDMS 434A
Term Typically Offered: Fall, Spring

One semester of teaching multiple subjects in a public school setting with diverse learners. This final semester of student teaching is completed concurrently with integrated coursework and focuses primarily on planning, implementing and assessing instruction for whole classes of students.
Credit/No Credit
EDMS 434C. Intern Teaching for Elementary Teachers. 8 Units
Prerequisite(s): EDMS 434A and department approval
Term Typically Offered: Fall, Spring

One semester of multiple subjects intern teaching in a public school setting with diverse learners. This semester of intern teaching is completed concurrently with integrated coursework and focuses primarily on planning, implementing, and assessing instruction for a whole class of students while employed as teacher of record.

EDMS 500. Classroom Inquiry Project: Culminating Experience. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243.
Term Typically Offered: Spring only

Course establishes that master candidates have acquired the essential knowledge and skills covered in each of the courses leading to the Master of Arts in Teaching with Multiple Subject Teaching Credential. Proficiency is demonstrated through a comprehensive examination of essential content of each course in the master’s degree program. Candidates will produce a written portfolio, accompanying executive summary, and oral presentation of the body of work completed during the Master of Arts in Teaching with Multiple Subject Teaching Credential Program.

EDSS 499. Continuous Master of Arts in Teaching Enrollment. 0 Units
Prerequisite(s): Student has completed all MAT coursework prior to EDMS 500 and earned an RP in EDMS 500 or EDSS 500.
Term Typically Offered: Fall, Spring

This is a zero-unit course for students in the Master of Arts in Teaching (MAT) program who earn an RP in their culminating experience course, EDMS/EDSS 500. The purpose of this course is to allow MAT students to maintain their continuous enrollment status while they complete the culminating experience requirements for the MAT program.

EDSP 101. Becoming an Education Specialist. 3 Units
Term Typically Offered: Spring only

The course introduces undergraduate students to a career working with children and youth with disabilities and their families. Students will explore the different career opportunities in the field of special education, the skills of an education specialist teacher, and credential requirements for becoming an educator working with students with disabilities including advocacy, reflection, organization, empathy, and credential program pre-requisites. Students will complete biographical readings, a career plan, and at least 30 hours of fieldwork with an education specialist teacher.

EDSP 119. Legal and Social Foundations of Inclusive Education. 3 Units
Prerequisite(s): EDUC 100A/B or consent of instructor.
Term Typically Offered: Fall, Spring

This course provides analysis of historical, philosophical, legal, and ethical foundations of special education and emerging issues in the disability rights/social justice movement to provide free and appropriate education (FAPE) for children and youth with diverse linguistic, cultural, socio-economic, physical, mental, social, emotional characteristics in the least restrictive environment (LRE). Legislation (e.g., IDEA 2004, ESSA, Section 504, ADA) and current legal requirements and best practices in identification, eligibility, assessment, IFSP/IEP/ITP development and implementation, and inclusive educational service delivery are examined.

EDSP 200. Seminar I: Early Childhood Special Education. 1 Unit
Prerequisite(s): Admission into the Early Childhood Special Education credential program
Term Typically Offered: Fall only

This seminar introduces Early Childhood Special Education (ECSE) candidates to their fieldwork experiences, technology, and development as an ECSE teacher. Candidates will examine their own teacher identity; identify anti-bias educational practices; analyze and reflect upon models of effective teaching and assessment; and develop technology, reflection, and critical thinking skills to engage in the teaching profession.

EDSP 201. Developing Collaborative Partnerships with Families, Professionals, and Communities in ECSE. 3 Units
Prerequisite(s): Admission into the MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential.
Term Typically Offered: Fall, Summer

Overview of ECSE historical, philosophical, theoretical/empirical, and legal bases for family centered, relationship based special education services. Emphasis is on developing cross-cultural competence and a strengths-based, student-centered approach to empowering families and advocating for students with disabilities. Students will develop skills required to build and maintain collaborative relationships through effective communication and teaming with families, students, professional colleagues, and community members. These skills will be applied in the context of school-family-community partnerships, professional partnerships, person-centered planning/future planning and IFSP/IEP development.

EDSP 205. Methods in Access and Inclusion in the GE Curriculum: Students with Extensive Support Needs. 3 Units
Prerequisite(s): EDSP 119, EDSP 206, EDSP 235, EDSP 220
Term Typically Offered: Fall, Spring

The focus of this course will be on the following three areas: 1) the processes for developing modified IEP goals which are based in the general education standards for all core curriculum as well as other individual information; 2) collaboration with general education teachers in the development of participation and support plans for inclusion in the general education classroom; and, 3) instructional strategies and adaptations which will enhance success across curricular areas for students with extensive support needs.
EDSP 206. Collaborative Program Planning with Families, Professionals, and Communities. 3 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or advisor approval
Term Typically Offered: Fall, Spring

Students will develop skills in the areas of: family collaboration; school and community collaboration in the context of IEP development and school partnerships; cross-cultural competence; communication; person-centered planning/future planning, partnering with families; transdisciplinary teaming to develop the IEP and the ITP; and facilitating social relationships and friendships as part of the school experience.

EDSP 207. Secondary/Post-secondary methods and transition planning for Students with Extensive Support Needs. 2 Units
Prerequisite(s): EDSP 119
Corequisite(s): EDSP 413 or EDSP 414
Term Typically Offered: Fall, Spring

Students will develop knowledge and skills related to strategies for including students within the middle and high school environment. Students will develop skills in community-based instruction transition planning, in addition to designing outcomes and supports within the general education curriculum. Students will also gain knowledge and skills related to vocational and supported employment, and preparation for work after high school, and how to facilitate a successful transition to post-secondary education, supported living, and supported employment.

EDSP 208. Positive Behavioral Supports and Evidence-Based Practices for Youth with Autism and Related Issues. 3 Units
Prerequisite(s): EDSP 119
Term Typically Offered: Fall, Spring

Students will develop competencies in evidence-based and promising practices in assessment, interventions and instructional strategies for children and youth with autism spectrum disorder (ASD) and those with mental health concerns and/or dual diagnosis (severe behavior or emotional challenges and developmental, intellectual, sensory, and/or motor disabilities) in the natural contexts of general education classrooms, other school settings, home and community. Students will conduct a functional behavioral assessment and develop and implement a positive behavior support for a student with challenging behaviors.

EDSP 209. Developing Augmentative & Alternative Communication Systems: Assessment and Intervention. 3 Units
Prerequisite(s): Admission to the MAT plus Education Specialist Credential Program.
Term Typically Offered: Fall, Spring

Participants will learn: a) how to assess communicative forms from nonsymbolic to symbolic and unintentional to sophisticated in students with disabilities; b) how to collaborate with audiologists, vision specialists, physical, occupational, and speech therapists related to communication; c) to select from the range of light tech to high tech augmentative communication systems and related assistive technology, based on assessment; d) how to develop communication instructional plans; and, e) how to implement instruction embedded across multiple environments and with multiple partners.

EDSP 210. Assessment and Evaluation in Early Childhood Special Education. 3 Units
Prerequisite(s): Admittance to the MA in Special Education Teaching (Early Childhood Special Education)
Term Typically Offered: Fall, Spring

This course integrates family-centered and strengths-based approaches in early childhood special education into the assessment and evaluation process. Content will focus on developing quality practices in early childhood assessment including using a range of culturally, linguistically, and ability appropriate tools and techniques; parent–professional collaboration; transdisciplinary team assessment; assessment reporting; and translating results into intervention planning. Students will demonstrate skills in the assessment process including planning, collecting, interpreting, and communicating assessment information about infants, and young children with disabilities.

EDSP 211. Curriculum, Intervention Strategies, and Environments in ECSE I: Infants & Toddlers. 3 Units
Prerequisite(s): Admittance to the Master of Arts in Special Education Teaching (Early Childhood Special Education)
Term Typically Offered: Fall, Spring

The focus of this course is acquisition of knowledge and skills to support families and other caregivers in facilitating development for infants and toddlers at risk or with disabilities. Students will collaboratively plan and implement curriculum and intervention strategies for infants, toddlers and families. These strategies may be utilized in a range of natural learning environments including home, childcare, and community programs.

EDSP 212. Inclusive Curriculum, Intervention Strategies, and Environments in ECSE II: Preschool & Kindergarten. 3 Units
Prerequisite(s): Admittance to the Education Specialist Credential Program: Early Childhood Special Education
Term Typically Offered: Fall only

Candidates develop the skills and mindsets necessary to design and implement developmentally appropriate play-based environments and instruction for young children with disabilities in school-based learning environments including inclusive preschools and kindergarten programs. Using a tiered approach, candidates plan and implement universally designed lessons and create embedded instruction plans that require intentionally planning supports, assessments, and evidence-based interventions within daily routines and activities to ensure all students learn and belong.

EDSP 213. Early Language and Literacy Development, Instruction, and Intervention in ECSE. 3 Units
Prerequisite(s): Admittance to the Master of Arts in Teaching with Early Childhood Special Education credential program
Term Typically Offered: Fall, Spring

Course examines theories and historical context of language and literacy development and instruction in young children from infancy through kindergarten with an emphasis on English Learners and children with disabilities. Candidates will learn to create and implement integrated instructional units and lesson plans that teach early literacy through play-based centers, math, science, and the arts while supporting individual students with accommodations and embedded instruction. Candidates examine the role of technology, assistive technology, and authentic assessment to enhance and guide instruction.
EDSP 216. Understanding the Implications of Developmental Diversity in Children and Youth. 2 Units
Prerequisite(s): Admission to an Education Specialist Credential Program.
Term Typically Offered: Fall, Spring

Using a critical disability theory perspective, this course explores: 1) atypical development across areas (e.g., cognitive, social, physical, linguistic) due to prenatal, perinatal, and early childhood developmental risk factors; 2) childhood development theories and how they support educators' understanding of children, families, and developmentally appropriate practices; and 3) service delivery models and key transitions across the lifespan.

EDSP 217. Foundations of Positive Behavioral Supports: Creating Safe and engaging Learning Environments. 3 Units
Prerequisite(s): Admission to the MA in Special Education Teaching
Term Typically Offered: Fall, Spring, Summer

Students will learn the foundations of positive behavioral supports as a multi-tiered systems of supports for children and youth with mild to extensive support needs in preschool, elementary and secondary schools with an emphasis on class-wide and school-/program-wide interventions to create safe and engaging learning environments. The course also examines collaboration with families and other professionals (e.g., paraprofessionals, general education teachers) to effectively support students' behavior and learning and provides an overview of functional behavior assessment and individual behavioral supports.

EDSP 218. Advanced Program Planning/Instruction: Students with Extensive Support Needs/Multiple Disabilities. 3 Units
Prerequisite(s): EDSP 209, EDSP 216.
Term Typically Offered: Fall, Spring

This course focuses on 3 primary areas: 1) evidence-based practices for developing high-quality individualized educational plans for children and youth, from early childhood to young adulthood, with extensive support needs (ESN) - including students with multiple disabilities, severe intellectual disabilities, deaf-blindness, sensory and orthopedic disabilities; 2) collaboration with family members, related service professionals, general education teachers, and other community services; and, 3) strategies, adaptations, and technologies, for increasing positive outcomes for students with ESN in inclusive classrooms.

EDSP 220. Language and Literacy in Inclusive Classrooms I. 3 Units
Term Typically Offered: Fall, Spring

This course provides candidates with the evidence based principles and systematic and explicit techniques to develop phonological awareness, phonics, concepts about print, oral and written language, and word recognition strategies. Candidates will learn techniques specific to assessing a student in reading and applying the information to assist the student with reading difficulties. Accommodations and modifications for students with mild, moderate, and severe disabilities will be emphasized.

EDSP 221. Language and Literacy in Inclusive Classrooms II. 3 Units
Prerequisite(s): EDSP 220
Term Typically Offered: Fall, Spring

Course provides candidates with evidence based principles, systematic and explicit techniques, procedures in reading fluency, comprehension, and vocabulary development. Candidates will learn literal and higher level comprehension strategies that assist students in understanding narrative and expository text. Candidates will receive instruction on the principles, techniques, and procedures for teaching spelling, handwriting, and critical study skills. Accommodations and modifications for students with mild, moderate and severe disabilities will be emphasized.

EDSP 225. Assessment and Evaluation for Students with Mild to Moderate Support Needs. 3 Units
Prerequisite(s): EDSP 220, EDSP 221, EDSP 229
Term Typically Offered: Fall, Spring

Course examines relationship between assessment, curriculum, and instruction through application of formal and informal assessments to support curriculum and instructional development. Candidates administer and interpret norm-referenced, criterion-referenced, and curriculum-based instruments that assess academic achievement, social behavior, and emotional functioning. Candidates learn principles and strategies when collecting and interpreting qualitative and quantitative data from multiple sources. Authentic assessment strategies, specifically designed to support and inform instruction, are emphasized. Field based component included for administering, scoring, and analyzing results from assessments.

EDSP 225A. Assessment and Evaluation for Students with Mild/Moderate Disabilities. 2 Units
Prerequisite(s): Admittance to Mild/Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDSP 225B
Term Typically Offered: Fall, Spring

Candidates examine relationships between assessment, curriculum, and instruction through application of a variety of formal and informal assessments and curricula. Candidates administer and interpret norm-referenced, criterion-referenced, and curriculum-based instruments that assess academic achievement, social behavior, and emotional functioning. Candidates learn basic principles and strategies related to using and communicating results of a variety of assessment and evaluation approaches. Authentic assessment strategies, specifically designed to support and inform instruction, will be emphasized.

EDSP 225B. Assessment and Evaluation for Students with Mild/Moderate Disabilities Lab. 1 Unit
Corequisite(s): EDSP 225A
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 225A) in a setting serving students with mild/moderate disabilities.
Credit/No Credit
EDSP 229. Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities. 3 Units
Prerequisite(s): Admission to Mild/Moderate, Moderate/Severe, Multiple Subjects, and Single Subject Credential programs or permission of respective special education advisors.
Term Typically Offered: Fall, Spring

Methods for designing and implementing instruction for students with mild/moderate disabilities. Topics include typical/atypical human development, resilience and protective factors, evidenced-based instructional strategies, designing and managing environments and materials, differentiated instruction, collaborative teaming to design and evaluate integrated services, technology (including assistive technology) to support access to general education curriculum, implementation of UDL, modifications and adaptations of state standards, components of IDEA and their implication for a multidisciplinary approach developing IEPs for special needs students included in general education classrooms.

EDSP 229B. Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities Lab. 1 Unit
Corequisite(s): EDSP 229
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 229) in a setting for students with mild/moderate disabilities who receive special education services. Students will verify multiple experiences across the age-span and in inclusive settings, agencies, and other natural environments.
Credit/No Credit

EDSP 230. Positive Behavior and Social-Emotional Supports for Students with Mild to Moderate Support Needs. 3 Units
Prerequisite(s): EDSP 217
Term Typically Offered: Fall, Spring

This course helps teacher candidates understand and support students who experience social, emotional, and behavior problems that negatively impact their school success and well-being. Teacher candidates will learn (a) how to address behavioral challenges in classrooms; (b) how to identify and assess support needs from the function-based and trauma-informed perspective; (c) how to design and implement positive intervention and support that are evidence-supported and compliant with federal IDEA law; and (d) how to provide social emotional learning opportunities.

EDSP 230B. Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges Lab. 1 Unit
Prerequisite(s): Admission into Mild/Moderate or Moderate/Severe Credential program, APE program, or permission of respective special education coordinator.
Corequisite(s): EDSP 230
Term Typically Offered: Fall, Spring

Comprehensive study and application of intervention strategies that enhance the quality of life for students with mild/moderate disabilities. Students will learn (a) how to design learning environments that prevent and reduce problem behaviors, (b) learn how to identify and assess problem behavior using functional behavioral methods, (c) learn how to design and implement positive behavioral support interventions which are in compliance with federal IDEA law, and (d) apply behavioral procedures on a systemic, school wide basis.

EDSP 231. Assistive and Instructional Technologies for Students with Mild to Moderate Support Needs. 2 Units
Prerequisite(s): Admission to the MAT with Education Specialist Mild to Moderate Support Needs Credential Program.
Term Typically Offered: Fall, Spring

Candidates design and enact technology-enhanced instruction by purposefully using three different types of educational technologies: assistive technologies, general instructional technologies, and content-specific instructional technologies. Technology-enhanced instruction and individualized educational programs involve teachers developing technological pedagogical content knowledge that weaves technology, pedagogy, and content expertise. This course provides learning opportunities for an array of applications, tools, and instructional practices.
Credit/No Credit

EDSP 232. Initial Seminar: Reflective Teaching Practice, Collaboration, & Communicative Competence. 1 Unit
Term Typically Offered: Fall, Spring

This initial seminar focuses on the critical practice of reflection as the heart of teaching. A highly effective special education teacher practices deliberate, purposeful, and metacognitive thinking to address the education of students with mild to moderate support needs in an inclusive environment. To prepare special education teachers for a changing world, teacher candidates need to understand theories of learning and their roles in teaching, develop curricular vision, communication skills, and respond to the diverse learning needs of students.

EDSP 233. Final Seminar: Mild to Moderate Support Needs. 1 Unit
Prerequisite(s): EDSP 232.
Corequisite(s): EDSP 472 or EDSP 473 (in the last time that either of these two courses is taken).
Term Typically Offered: Fall, Spring

Designed to allow the education specialist candidate teacher or intern to focus upon three overall areas: 1) problems and resolutions particular and general to their teaching assignment, 2) development of their Individual Development Plan by identifying their strengths and areas of growth for further study during the candidates Induction Program and 3) create a Personal Reflection Model to support the development of the Individual Development Plan.
Credit/No Credit

EDSP 234. Seminar II: Early Childhood Special Education. 1 Unit
Prerequisite(s): EDSP 200
Corequisite(s): EDSP 475 or EDSP 476 or EDSP 478
Term Typically Offered: Fall, Spring, Summer

This seminar provides Early Childhood Special Education (ECSE) candidates with opportunities to engage in reflective conversations about their early fieldwork experience and development as a teacher with regard to program competencies. With support of their colleagues and instructor, candidates will analyze their own teaching practice and pedagogy, complete critical teaching tasks relevant to their fieldwork, and critically analyze issues in the field.
Credit/No Credit
EDSP 235. Curriculum and Instructional Methods for students with Extensive Support Needs. 3 Units
Prerequisite(s): Admittance into the MAT in Special Education (Extensive Support Needs)
Term Typically Offered: Fall, Spring

This is the first instructional methods course in the masters and specialist credential program for students with extensive support needs (ESN). Teacher candidates will learn to use the concepts of universal design for learning (UDL) and understanding by design (UbD) to create units of instruction in the core curriculum; various methods of progress monitoring; and, how to embed individualized participation plans and systematic instructional plans unique to individual learners with extensive support needs within general education and special education classrooms.

EDSP 236. Pro-Seminar in Teaching Students with Extensive Support Needs. 1 Unit
Corequisite(s): Any Mild-Moderate Support Needs field experience or intern teaching course
Term Typically Offered: Fall, Spring

This course addresses the following competencies: evaluating ethical principles and standards of special education practice; conducting effective meetings and collaborative problem-solving with families and colleagues; creating and carrying out an individualized positive behavioral support plan with the support of the school team and family; analyzing a school's current behavioral support system and developing a recommended plan for more effective school-wide positive behavioral support; and, effective strategies for coaching and providing training to paraprofessional staff.
Credit/No Credit

EDSP 237. Transition Strategies for Students with Mild to Moderate Support Needs. 3 Units
Term Typically Offered: Fall, Spring

Candidates will examine legal mandates specific to transition planning and implementation, and evaluate transitional life experiences for students with mild/moderate disabilities across the lifespan. Candidates will explore and implement social skills, and career and vocational program planning for secondary students with Mild/Moderate disabilities. Planning will include the student, community services, and other community resources such as parents and various professionals that will lead to increased student learning with career goals and objectives to support their transition to post-school settings.

EDSP 237B. Transition Strategies for Students with Mild/Moderate Disabilities Lab. 1 Unit
Corequisite(s): EDSP 237.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 237) in inclusive setting for students with mild/moderate disabilities.
Credit/No Credit

EDSP 238. Culminating Seminar for Education Specialist Candidates. 3 Units
Term Typically Offered: Fall, Spring

Provides structured opportunities for Education Specialist teaching candidates who are in their culminating student/intern teaching experience to discuss, analyze, and reflect on their students' learning to support completion of Special Education Teaching Performance Assessment (TPA). Candidates will interpret, analyze, and complete prompts for all TPA tasks in preparation for the submission of their TPA teaching event. Additionally, candidates will implement their final fieldwork tasks to demonstrate critical skills of an education specialist.
Pre-requisite: EDSP 200 or final semester in the MMSN or ESN credential program Co-Requisite: EDSP 477 or EDSP 478 or EDSP 415 or EDSP 422 or EDSP 472 or EDSP 473 or approval of program coordinator.
Credit/No Credit

EDSP 250. Education Research. 3 Units
Prerequisite(s): Advancement to Candidacy for Special Education concentration; passing WPG exam for all other concentrations.
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Classified students are encouraged to take this course early in their graduation programs.

EDSP 251. Education in a Democratic, Pluralistic Society. 3 Units
Prerequisite(s): Passing WPG exam
Term Typically Offered: Fall, Spring

Advanced study of social and psychological issues which need to be considered in education relating to the client, the educator, the community and society. Addresses implications of theories of learning, assessment, individual differences and social/political influences.

EDSP 276A. Education of Students with Emotional and Behavioral Disorders. 2 Units
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential or M.A. in Education programs and EDSP 230 or equivalent
Corequisite(s): EDSP 276B
Term Typically Offered: Fall, Spring

Concentrate on the assessment, characteristics, interventions and classroom strategies, which uniquely address the educational needs of students with emotional and behavioral disorders. Students will review current laws, policies and selected literature specific to students identified as EBD and their families. Strategies to create and promote collaborative partnerships with parents, mental health representatives and/or other service providers will be presented.

EDSP 276B. Education of Students with Emotional and Behavioral Disorders - Lab. 1 Unit
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential or M.A. in Education programs and EDSP 230 or equivalent
Corequisite(s): EDSP 276A
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 276A) in serving students with emotional and behavioral disorders. Students are required to participate in class visitations, agency visitations, and interviews.
EDSP 281. Critical Issues in Special Education Research and Practice. 6 Units
Prerequisite(s): Successful completion of Education Specialist Credential coursework and student teaching—Mild/Moderate Disabilities Credential, Moderate/Severe Disabilities Credential or Early Childhood Special Education Credential program
Term Typically Offered: Summer only

This course provides an introduction to Action Research in the field of special education. The overall goal is to improve teacher effectiveness in the classroom through research and develop teacher-researchers, producers and consumers of empirical knowledge. Students will develop research writing skills to understand problems of practice, critical issues, and policy in special education. The course is designed to facilitate connections between methodological paradigm and teaching practices related to doing action research and covers quantitative, qualitative, and mixed-methods research approaches.

EDSP 282. Methods in Research Design and Practice with Diverse Children, Youth, and Families. 3 Units
Prerequisite(s): EDSP 281
Term Typically Offered: Fall only

This course is the second course in the final research sequence taken by the candidates in the Masters of Arts in Teaching for all three special education fields. The focus of this course is four-fold: 1) deepening candidates' knowledge of methods in both qualitative and quantitative research design intended for action research; 2) development of each candidate’s action research proposal; 3) preparing for Institutional Review Board (IRB); and 4) completing a draft of chapters 1, 2, and 3.

EDSP 283. Critical Analysis and Interpretation of Data within Diverse School and Community Contexts. 3 Units
Prerequisite(s): EDSP 281, EDSP 282
Corequisite(s): EDSP 500
Term Typically Offered: Spring only

This course focuses on students¿ understanding and use of appropriate data analysis methods for teacher action research in diverse schools/communities. Students will learn to critically analyze and interpret data from qualitative, quantitative and mixed-methods sources by using theoretical knowledge or conceptual frameworks, and to present findings to inform teacher practices and support systems change/reform efforts to improve the lives of individuals with disabilities. Students also will analyze, write and present findings from their thesis research in written and oral/visual formats.

EDSP 290. Seminar for Culminating Experiences. 3 Units
Prerequisite(s): Approval of Culminating Experience Proposal or instructor permission.
Seminar to focus on topics/elements/expectations to be included in the culminating experiences (thesis, project, or comprehensive exam). Successful completion of the course requires completion of Chapters 1 and 2 of the thesis/project and the beginning of Chapter 3 for the MA thesis/project option or an exam petition to be approved by the departmental exam committee, including annotated bibliographies and position papers on the focal topics for the MA comprehensive exam option.

EDSP 292. Teaching English Learners with Disabilities. 3 Units
Term Typically Offered: Fall, Spring

Candidates will learn basic principles, strategies and procedures for teaching English Learners with disabilities. Compliance and legal issues related to English Learners identified with disabilities, including writing linguistically appropriate goals and objectives, and implementing culturally responsive strategies will be addressed. Systematic and explicit strategies for accommodating and modifying curricular materials for English Learners with disabilities in inclusive classrooms will be emphasized.

EDSP 292B. Teaching English Learners with Disabilities Lab. 1 Unit
Corequisite(s): EDSP 292
Term Typically Offered: Fall, Spring

Field-based practice lab will be a synthesis and application of course content (EDSP 292) in the implementation of culturally responsive, systematic and explicit strategies, and curricular material involved in teaching English Learners with disabilities in inclusive classrooms. Credit/No Credit

EDSP 293. Strategies for Inclusive Classrooms. 3 Units
Prerequisite(s): Admission into a teacher preparation program.
Term Typically Offered: Fall, Spring

Knowledge and skills of teaching students with learning differences in inclusive classrooms require effective use of specific integrated pedagogical moves from an asset-based approach. In addition, professional judgment and contexts matter when modifying these pedagogical moves to successfully address the needs of all students, including those with extensive support needs. This course prepares all teacher candidates in teaching students with most complex learning and behavioral challenges four high-leverage practices in inclusive education through collaboration, assessment, social/emotional/behavior, and instruction. Cross listed: EDSS 282/EDSP 293/EDMS 213

EDSP 297. Current Issues in Special Education. 3 Units
Prerequisite(s): Passing WPG exam
Term Typically Offered: Fall, Spring

Examines current issues in special education through review of selected journal articles, presentations by guest lecturers and class discussion. Students will be required to write a series of brief position papers in professional style on selected topics.

EDSP 298. Master’s Seminar in Special Education. 3 Units
Prerequisite(s): EDSP 297
Corequisite(s): EDSP 297
Term Typically Offered: Fall, Spring

Students choosing Program A for the M.A. in Education, Special Education option must register for the seminar during their final semester of study, prior to attempting the written comprehensive examination. In the seminar, students will study problems and issues associated with specialty areas as well as with the field of special education as a whole.
EDSP 299. Special Problems: Special Education. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects for Special Education credential candidates at graduate/credential level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and the Department Chair.

Note: This course may be repeated for up to 9 units of credit.

EDSP 314. Mathematics Curriculum and Instruction for Diverse Learners. 3 Units
Prerequisite(s): Admission to a MAT plus Special Education Teaching Credential program.
Term Typically Offered: Fall, Spring

Mathematics teaching methodology course for Special Education teacher candidates to develop (a) pedagogical content knowledge in teaching mathematics; (b) favorable attitudes toward the subject of mathematics; (c) willingness to work hard and persevere to understand new mathematical ideas; and (d) motivation to learn more about the content and methodology of teaching mathematics. Focus on using the California content standards to teach all students, including English Learners and those with special needs.

EDSP 413. Field Experience I: Students with Extensive Support Needs. 5 Units
Prerequisite(s): Admission to the credential program or approval from the Coordinator.
Term Typically Offered: Fall, Spring

This fieldwork placement is designed for credential candidates in the MA in Special Education Teaching Emphasis in Students with Extensive Support Needs. Candidates, working under the guidance of a mentor teacher and a University supervisor, will complete the field-based assignments for coursework being taken concurrently. In addition, candidates will be evaluated on a set of competencies required by the end of the first year in the credential program.

EDSP 414. Field Experience II: Students with Extensive Support Needs. 6 Units
Prerequisite(s): EDSP 413
Term Typically Offered: Fall, Spring

This University supervised fieldwork placement is designed for credential candidates in the MA in Special Education Teaching Emphasis in Students with Extensive Support Needs. Building on the skills and competencies demonstrated in their first fieldwork experience, candidates will work towards demonstrating proficiency in 10 identified areas, including: professionalism, IEP development, curriculum, modifications and adaptations, systematic instruction, non-classroom/community environments, facilitating friendships, augmentative and alternative communication, positive behavioral supports, and methods for students with the most complex disabilities.

EDSP 415. Student Teaching: Students with Extensive Support Needs. 8 Units
Prerequisite(s): EDSP 414 or EDSP 420
Term Typically Offered: Fall, Spring

This final semester Student Teaching placement is designed for credential candidates in the MA in Special Education Teaching Emphasis in Students with Extensive Support Needs. Candidates must demonstrate that they are at a "proficient" level in 11 areas in order to receive a recommendation for their credential: professionalism, IEP development, curriculum, modifications and adaptations, systematic instruction, non-classroom/community instruction, facilitating friendships, augmentative and alternative communication, positive behavioral supports, teaching students with the most complex disabilities, and program management.

EDSP 420A. Multiple Subject Field Experience. 6 Units
Term Typically Offered: Fall, Spring

Initial Multiple Subject credential field experience, with integrated methods coursework, is a M-Th, half-day fieldwork requirement. Effective Instruction and classroom management are the focus of the Initial Multiple Subject field experience. Candidates complete field experience in public school classrooms concurrently with integrated coursework. Field experiences focus primarily on observing model lessons and activities and on collaborative planning, implementing and assessing instruction for small groups of students.

Note: This is a full semester field experience in general ed. classrooms.

EDSP 420B. Multiple Subject Student Teaching. 8 Units
Term Typically Offered: Fall, Spring

Final semester of a Multiple Subject credential student teaching with integrated methods coursework requires M-Th, full-day participation of the student. Emphasis on classroom teaching and further experience with community services. Candidates must meet the criteria for student teaching to be accepted to this course.

EDSP 421. Intern Teaching I: Students with Extensive Support Needs. 9 Units
Prerequisite(s): EDSP 413
Term Typically Offered: Fall, Spring

This Intern Teaching placement is designed for credential candidates in the MA in Special Education Teaching Emphasis in Students with Extensive Support Needs. Candidates must demonstrate that they are at a "developing proficiency" level in 11 areas in order to move into the final semester of Advanced Intern Teaching: professionalism, IEP development, curriculum, modifications and adaptations, systematic instruction, non-classroom/community instruction, facilitating friendships, augmentative and alternative communication, positive behavioral supports, teaching students with the most complex disabilities, and program management.
EDSP 422.  Advanced Intern Teaching: Students with Extensive Support Needs.   9 Units
Prerequisite(s): EDSP 421
Term Typically Offered: Fall, Spring
This final semester Internship is designed for credential candidates in the MA in Special Education Teaching and Emphasis in Students with Extensive Support Needs. Candidates must demonstrate that they are at a proficient level in 11 areas in order to receive a recommendation for their credential: professionalism, IEP development, curriculum, modifications and adaptations, systematic instruction, non-classroom/community instruction, facilitating friendships, augmentative and alternative communication, positive behavioral supports, teaching students with the most complex disabilities, and program management. Credit/No Credit

EDSP 471.  Mild to Moderate Support Needs Field Experience.   4 Units
Prerequisite(s): Admission to the MAT with Education Specialist Mild to Moderate Support Needs Credential Program.
Term Typically Offered: Fall, Spring
The first phase of fieldwork typically occurs in the second semester (M-Th, half day) in the credential program. This semester is designed for candidates who are prepared, educationally and emotionally, for a rigorous schedule of classes and student teaching in coming semesters. Credit/No Credit

EDSP 472.  Mild to Moderate Support Needs Student Teaching.   7 Units
Prerequisite(s): EDSP 471 or equivalent.
Term Typically Offered: Fall, Spring
Student teaching full day, M-Th, for the semester in a cooperating LEA District providing services for students with mild to moderate support needs. Cooperating teachers work with the University supervisor to support the candidate in completing the required assignments and competencies. An evaluation will be completed at the mid point and end of the semester. Note: Application for student teaching is required prior to course enrollment.
Credit/No Credit

EDSP 473.  Mild to Moderate Support Needs Intern Teaching.   9 Units
Prerequisite(s): All criteria related to recommendation for the intern credential and instructor approval.
Term Typically Offered: Fall, Spring
A credit/no credit directed internship in a district, county office of education, or program serving students with mild to moderate support needs. Candidates must meet the criteria for an internship to be accepted into this course. A University supervisor will support the candidate in completing all required competencies. An evaluation will be completed at mid point and end of the semester. Note: Application for Student Teaching and Intern Teaching Permit is required prior to course enrollment.
Credit/No Credit

EDSP 474.  ECSE Early Fieldwork Experience I.   3 Units
Prerequisite(s): Admission to the Early Childhood Special Education - Added Authorization or the MA in Special Education Teaching (Early Childhood Special Education).
Term Typically Offered: Fall, Spring
Candidates in the early childhood special education (ECSE) program complete early fieldwork activities at a site or program serving families and children with disabilities birth to kindergarten. Fieldwork is completed concurrently with integrated coursework. In this first early field experience, candidates focus primarily on observing evidence-based environments, instruction, and interventions as well as practicing skills including collaborating with a young child’s family and team, engaging in data-based decision making, and creating and implementing intervention plans. Credit/No Credit

EDSP 475.  ECSE Early Fieldwork Experience II.   3 Units
Prerequisite(s): EDSP 474
Term Typically Offered: Fall only
Candidates in the early childhood special education (ECSE) program complete more advanced early fieldwork activities at a site or program serving families and children with disabilities birth to kindergarten. Fieldwork is completed concurrently with integrated coursework. In this second early field experience, candidates build on their skills by collaboratively analyzing their teaching and assessment practices, reflecting on their experiences, and practicing with support more advanced pedagogy. Credit/No Credit

EDSP 476.  ECSE Student Teaching: Infants & Toddlers.   4 Units
Prerequisite(s): EDSP 211
Term Typically Offered: Fall, Spring, Summer
One of two culminating experiences, candidates complete the student teaching experience with a cooperating teacher in their school district, county office of education or appropriate privately operated program providing early intervention services for infants and toddlers with disabilities and their families. Completed concurrently with integrated coursework and focuses on candidates gradually taking the lead on assessing, planning, and coaching families raising infants and toddlers with disabilities or delays within their natural routines, environments, and activities. Note: Candidates may take EDSP 478 as a course equivalent. Credit/No Credit

EDSP 477.  ECSE Student Teaching: Preschool/Kindergarten.   6 Units
Prerequisite(s): EDSP 212, and EDSP 475 or EDSP 478
Corequisite(s): EDSP 238
Term Typically Offered: Spring only
One of two culminating experiences, candidates complete the student teaching experience with a cooperating teacher in their public school setting with preschoolers or kindergarteners with disabilities. Completed concurrently with integrated coursework and focuses on candidates gradually taking the lead on planning, implementing, and assessing instruction of all students in a school-based program while providing tiered levels of support and embedded instruction to target the needs of students with disabilities. Credit/No Credit
EDSP 478. ECSE Intern Teaching. 9 Units
Prerequisite(s): EDSP 119, EDSP 201, and EDSP 211 or EDSP 212, or permission from program coordinator
Term Typically Offered: Fall, Spring, Summer

Internship in a cooperating District or County Office of Education providing services for young children birth to kindergarten with disabilities receiving special education services and their families. Candidates must complete the intern application process in order to register. Intern serves as the teacher of record and is employed by the district. As the classroom teacher, develop and teach developmentally and accessible units and lesson plans, embed instruction and supports, collaborate with colleagues, support paraprofessionals, and lead the IFSP/IEP process.
Credit/No Credit

EDSP 479. Field Experience II: Early Childhood Special Education. 3 Units
Prerequisite(s): Admission to MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential program
Corequisite(s): EDSP 210, EDSP 212, and EDSP 293 or approval of ECSE program coordinator
Term Typically Offered: Fall, Spring

The second phase of field-based experience for ECSE candidates is a supervised practicum. Candidates will spend a minimum of two days per week with a community-based program or school where preschoolers with disabilities are being served. They will be assigned a cooperating education specialist and University supervisor who they will work with to complete assignments. An evaluation of program competencies will be completed at the end of the semester.
Credit/No Credit

EDSP 500. Classroom Inquiry/Action Research Portfolio-Culminating Experience. 3 Units
Prerequisite(s): EDSP 282
Corequisite(s): EDSP 283, Advancement to Candidacy
Term Typically Offered: Spring, Summer

This course establishes that the candidate has acquired the essential knowledge and skills covered in each of the courses leading to the Master of Arts in Teaching with Special Education Teaching credential. Proficiency is demonstrated through a comprehensive examination of essential content of each course in the MAT degree program. Each candidate will produce a written portfolio, accompanying executive summary, and oral poster presentation of the body of work completed during the MAT Special education program.
Credit/No Credit

EDSP 501. Master of Arts Project: Special Education. 3 Units
Prerequisite(s): Approval of Culminating Experience Proposal or instructor permission
Term Typically Offered: Fall, Spring

Completion of a project that integrates research with development of a product related to instruction of persons with disabilities.

EDSP 599. Continuous Master of Arts in Special Education Teaching Enrollment. 0 Units
Prerequisite(s): Student has completed all MASET coursework prior to EDSP 500 and earned a RP in EDSP 500.
Term Typically Offered: Fall, Spring

This is a zero unit course for students in the Master of Arts in Special Education Teaching program who earn a RP in their culminating experience course, EDSP 500. The purpose of this course is to allow them to maintain their continuous enrollment status while they complete the culminating experience requirements for the MASET program.
Note: There is no grade associated with this course.
Credit/No Credit

EDSS 241. Action Research in Multicultural Settings. 5 Units
Prerequisite(s): Admission to the Master of Arts in Teaching with Multiple/Single Subject Teaching Credential program; Completion of EDMS 4348 or EDMS 474B.
Term Typically Offered: Summer only

This course focuses on an introduction to Action Research in multicultural educational settings. It includes an overview of various research paradigms, with emphasis on Action Research and Teacher Action Research. Additional topics covered in this course include: critical pedagogy, forms of multicultural education, and issues related to educational equity and providing access of opportunity to students from underserved populations.
Cross listed: EDMS 241

EDSS 242. Critical Perspectives in Classroom Inquiry. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241
Term Typically Offered: Fall only

This course is part of the Master of Arts in Teaching with Single Subject Teaching Credential Program and builds on the knowledge that students gain in EDMS/EDSS 241. During this course students will complete a literature review of research related to their critical inquiry question. Students will additionally explore the historical and current trends in critical classroom inquiry and consider the implications for schools in diverse settings. Further course activities include developing a Classroom Inquiry Project and submitting the IRB.
Cross listed: EDMS 242

EDSS 243. Data Collection for Action Research in Multicultural Settings. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241.
Term Typically Offered: Fall only

This course builds students understanding of appropriate types and uses of data in Action Research in multicultural education settings. During this course students will be presented with the sociopolitical contexts for data collection and its subsequent use in educational policy. Students will apply theoretical knowledge by practicing to collect and initially interpreting multiple types of data. These experiences will lay the groundwork for students development and implementation of the data collection plan for their own Classroom Inquiry Projects.
Cross listed: EDMS 243.
EDSS 244. Sociocultural & Sociopolitical Contexts of Data Analysis. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243
Term Typically Offered: Spring only
This course builds students' understanding of appropriate methods of data analysis in Teacher Action Research in multicultural education settings. Students will learn how data analysis has been used to interpret research in diverse school settings. Students will apply theoretical knowledge by analyzing multiple types of data sets form both qualitative and quantitative sources. These experiences will lay the groundwork for students implementation of analysis of their own data for their Action Research inquiry projects.
Cross listed: EDMS 244

EDSS 264. Critical Multiculturalism for Racial/Social Justice Education-Secondary. 3 Units
Prerequisite(s): Admission to the MA in Teaching with Single Subject Teaching Credential Program.
Term Typically Offered: Fall, Spring
This course serves as an introduction to Critical Multiculturalism, Racial/Social Justice pedagogy, and Anti-Bias education. The course will provide a critical perspective for analyzing the purposes and processes of U.S. public schooling. Students will examine the socio-historical political contexts of public schools and society, educational/learning theories, philosophical educational foundations, notions of culture, community, and educational practice. Teaching modalities will include lectures, whole group discussions, small group work and presentations, and on-line fieldwork assignments.

Prerequisite(s): Admission to MA in Teaching with Single Subject Teaching Credential program.
Term Typically Offered: Fall, Spring
This course serves as an introduction to Critical Multiculturalism, Racial/Social Justice pedagogy, and Anti-Bias education. The course will provide critical perspective for analyzing the purposes and processes of U.S. public schooling in a Linked Learning context. Students will examine the socio-historical political contexts of public schools and society, educational/learning theories, philosophical educational foundations, notions of culture, community, and educational practice. Teaching modalities will include lectures, whole group discussions, small group work and presentations, and on-line fieldwork assignments.

EDSS 265. Advanced Fundamentals of Teaching. 2 Units
Prerequisite(s): EDSS 365
Extends learning from EDSS 365 with deeper examination of the relationship between elements of teaching and instructional organization needed to effectively teach in culturally and linguistically diverse and inclusive secondary classrooms through the use of backward design, Universal Design for Learning, differentiated instruction and assessment. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as teachers through exploration of curriculum development frameworks, long-and short-term planning approaches, and specific theories for instructional practice.

EDSS 265D. Advanced Fundamentals of Teaching, Workshop. 1 Unit
Prerequisite(s): EDSS 365A and EDSS 365B
Corequisite(s): EDSS 265C
Term Typically Offered: Fall, Spring
Extends learning in EDSS 365A, B and EDSS 265C by deepening knowledge about the relationship between elements of teaching and instructional organization. Focus on effective teaching for culturally and linguistically diverse and inclusive secondary classrooms through the use of backward design, Universal Design for Learning, differentiated instruction and assessment. Instructional framework will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as a teacher including application of curriculum development theories, long-and short-term planning frameworks and specific theories.

EDSS 265L. Advanced Fundamentals of Teaching-Linked Learning. 2 Units
Prerequisite(s): EDSS 365L
Term Typically Offered: Fall, Spring
Extends learning from EDSS 365 with deeper examination of the relationship between elements of teaching and instructional organization needed to effectively teach in culturally and linguistically diverse and inclusive secondary classrooms through the use of backward design, Universal Design for Learning, differentiated instruction and assessment. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as teachers through exploration of Linked Learning curriculum development frameworks, long-and short-term planning approaches, specific theories for instructional practice.

EDSS 266. Advanced Single Subject Seminar. 2 Units
Prerequisite(s): EDSS 366
Term Typically Offered: Fall, Spring
Second of two-course series. Provide structured opportunities for candidates to discuss, analyze, reflect upon data gathered from field; support completion of TPA. Further study of policies, school law, resources, strategies, routines, and activities needed for productive environments in classrooms as locations for student engagement/learning. Special emphasis on English Language Development, students with special needs, and specific management/implementation of activities. Course assignments/activities integrated with other core courses.
Credit/No Credit

EDSS 266L. Advanced Single Subject Seminar, L. 2 Units
Prerequisite(s): EDSS 366L
Term Typically Offered: Fall, Spring
Second of two-course series. Provide structured opportunities for candidates to discuss, analyze, reflect upon data gathered from field; support completion of TPA. Further study of policies, school law, resources, strategies, routines, and activities needed for productive environments in classrooms as locations for student engagement/learning. Special emphasis on English Language Development, students with special needs, and specific management/implementation of Linked Learning activities (e.g. multidisciplinary integrated units of study). Course assignments/activities integrated with other core courses.
Credit/No Credit
EDSS 279A. Method and Materials for Teaching Secondary English Learners, A. 1.5 Units
Prerequisite(s): EDUC 170; Admission to the Single Subject Credential program
Term Typically Offered: Fall, Spring

This course is the first of a two-course series. Introduces candidates to a repertoire of theory-based methods needed to facilitate and measure their own students' growth in English language development (ELD) as well as create learning environments which promote content area learning through the use of Specially Designed Academic Instruction in English (SDAIE). Candidates acquire knowledge and skills in methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 279B. Methods and Materials for Teaching Secondary English Learners, B. 1.5 Units
Prerequisite(s): EDSS 279A
Term Typically Offered: Fall, Spring

Second course in a two-course series. Candidates expand their repertoire of theory-based methods to facilitate and measure their own students’ growth in English language development (ELD) as well as create learning environments which promote content area learning through the use of Specially Designed Academic Instruction in English (SDAIE). Candidates deepen knowledge and skills related to methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 279C. Method and Materials for Teaching Secondary English Learners, C. 1.5 Units
Prerequisite(s): EDUC 170; Admission to the Single Subject Credential Program.
The first of two-course series. Introduces candidates to theory-based methods to facilitate/measure their own students’ growth in English language development and create learning environments which promote content area learning through Specially Designed Academic Instruction in English (SDAIE). Specific instruction given to develop skills in Linked Learning settings and learning activities therein. Candidates acquire knowledge/skills in methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 279D. Method and Materials for Teaching Secondary English Learners, D. 1.5 Units
Prerequisite(s): EDSS 279C
Second in two-course series. Candidates expand repertoire of theory-based methods to facilitate/measure students’ growth in English language development and create learning environments which promote content area learning through Specially Designed Academic Instruction in English (SDAIE). Specific instruction given to develop skills in Linked Learning settings and learning activities therein. Candidates deepen knowledge and skills related to methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 282. Strategies for Inclusive Classrooms: Single Subject. 3 Units
Prerequisite(s): Admission into a teacher preparation program or an MA in Teaching with Multiple/Single Subject Teaching Credential program.
Term Typically Offered: Fall, Spring

This course provides single subject and special education candidates with dispositions, knowledge, and skills needed to serve students with disabilities in general education classrooms. Strategies specific to students in their least restrictive environment will be covered emphasizing Universal Design for Learning, Multi-Tiered Systems of Support, social-emotional learning, co-teaching, differentiated instruction, roles and responsibilities of special/general education teachers, peer mediated learning strategies, modifications of standards and learning outcomes for students with disabilities, and assistive technology (low and high tech adaptations).

Cross listed: EDSP 293

EDSS 291. Foundations in Career Technical Education: Bridging Industry to the Classroom. 3 Units
Term Typically Offered: Fall, Spring

This course includes identification of current Career Technical Education practices, building an understanding of industry sectors, career pathways and standards, development of advisory committees, and exploration of Career Technical Student Organizations (CTSO’s). Candidates will prepare standards-based lesson plans, units of instruction in career exploration, develop recruitment tools, and identify and teach 21st Century Skills. Candidates will identify funding sources, necessary equipment, and plans for safe storage. They will develop plans to incorporate work based learning into their program.

EDSS 299. Special Problems: Single Subject. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects for Single Subject credential candidates at graduate/credential level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and the Department Chair.

Note: This course may be repeated for up to 9 units of credit.

Credit/No Credit

EDSS 364. Advanced Critical Multiculturalism for Racial/Social Justice Education- Secondary. 2 Units
Prerequisite(s): Admission into the Single Subject Credential Program; EDSS 264.
Term Typically Offered: Fall, Spring

This course continues a critical analysis of the purposes and processes of public schooling, including Critical Multiculturalism, Racial/Social Justice pedagogy, and Anti-Bias education. Students will examine the sociopolitical intersection of public and society, educational theories, philosophies, notions of culture, community, and educational practice through self-examination of dispositions related to gender, sexuality, race, social class, language, religion/spirituality and ability.
EDSS 364D. Advanced Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop. 1 Unit

Prerequisite(s): Admission into the Single Subject Credential Program; EDSS 264A
Corequisite(s): EDSS 364C
Term Typically Offered: Fall, Spring

Further study of the purposes and processes of public schooling. Candidates develop a philosophy of education for teaching in a multicultural, multilingual, and democratic society through self-examination of dispositions related to gender, sexuality, race, social class, language, religion/spirituality and ability. Modalities include discussions, small group tasks, group projects and simulations.

EDSS 364L. Advanced Critical Multiculturalism for Racial/Social Justice Education - Secondary Linked Learning. 2 Units

Prerequisite(s): EDSS 264L
Term Typically Offered: Fall, Spring

This course continues a critical analysis of the purposes and processes of public schooling in Linked Learning settings, including Critical Multiculturalism, Racial/Social Justice pedagogy, and Anti-Bias education. Students will examine the sociopolitical intersection of public schools and society, educational theories, philosophies, notions of culture, community, and educational practice through self-examination of dispositions related to gender, sexuality, race, social class, language, religion/spirituality and ability.

EDSS 365. Fundamentals of Teaching. 3 Units

Prerequisite(s): Admission into the Master of Arts in Teaching with a Single Subject Credential program
Term Typically Offered: Fall, Spring

This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in an Anti-Racist/Social Justice paradigm. Emphasis will include students’ development as a teacher, curriculum development, long and short-term planning, and specific theories for instructional practice in Linked Learning settings.

EDSS 365B. Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop. 1.5 Units

Prerequisite(s): Admission into Single Subject Teacher Preparation Program
Corequisite(s): EDSS 365A
Term Typically Offered: Fall, Spring

This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will be on application of theories and frameworks learned in EDSS 365A, with a focus on students’ development as a teacher, curriculum development, long and short-term planning, and assessing student learning. Discussion, small group work and simulations.

EDSS 365L. Fundamentals of Teaching- Linked Learning. 3 Units

Prerequisite(s): Admission to the Master of Arts in Teaching with a Single Subject Credential program
Term Typically Offered: Fall, Spring

This course introduces is the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive Linked Learning secondary classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in an Anti-Racist/Social Justice paradigm. Emphasis will include students’ development as a teacher, curriculum development, long and short-term planning, and specific theories for instructional practice in Linked Learning settings.

EDSS 366. Single Subject Seminar. 3 Units

Prerequisite(s): Admission to the MA in Teaching with Single Subject Teaching Credential Program
Term Typically Offered: Fall, Spring

First part of a 2-course sequence that provides structured opportunities for student teachers to discuss, analyze, and reflect upon data gathered from their field placements. Attention given to policies, school law, resources, strategies, routines, and activities that contribute to the productive management of the school and classroom as locations for student engagement and learning. Special emphasis will be on English Language Development and students with special needs. Course assignments and activities are integrated with other core courses.

EDSS 366L. Single Subject Seminar, L. 3 Units

Prerequisite(s): Admission to the MA in Teaching with Single Subject Teaching Credential Program
Term Typically Offered: Fall, Spring

First of a 2-course sequence that provides structured opportunities for student teachers to discuss, analyze, and reflect upon data gathered from their field placements in Linked Learning settings. Attention given to policies, school law, resources, strategies, routines, and activities that contribute to the productive management of the Linked Learning school and classroom as locations for student engagement and learning. Special emphasis will be on English Language Development and students with special needs.

EDSS 368. Inclusive Education in Secondary Schools. 1 Unit

Prerequisite(s): Admission to the Single Subject Credential Program
Term Typically Offered: Fall, Spring

Candidates learn historical, theoretical, and practical information related to key issues facing secondary public schooling currently, including how to educate learners with special needs, differentiate instruction in the content areas, develop assessments that fairly and accurately measure student learning, and use universal design to structure classroom and school practices, processes and policies to maximize access to core content for all students, regardless of language or ability. Lecture and discussion.
EDSS 373A. Educational Technology Lab I. 1 Unit
Prerequisite(s): Admission to the Single Subject Credential Program.
Term Typically Offered: Fall, Spring

Educational technology lab course will prepare the candidates use technology for three areas: coursework in the teaching credential program, enhancing teaching and learning and eportfolio development. The candidates will apply current research to their practice through development of lessons and problem-solving and reasoning skills. The candidates are introduced to an array of digital technologies for teaching relevant for K-12 student learning. The candidates are also prepared to use technology in the Teaching Credential Program and for the development of an electronic portfolio. Credit/No Credit

EDSS 373B. Educational Technology Lab II. 1 Unit
Prerequisite(s): EDSS 373A
Term Typically Offered: Fall only

This course will offer support and instructions of facilitating and improving learning of a diverse student population by creating, using, and managing appropriate technological processes and resources. The candidates will apply and develop knowledge of technology in K-12 teaching and student learning. The candidates are prepared to use technology in the Teaching Credential Program and for the development of an electronic portfolio. Credit/No Credit

EDSS 373L. Educational Technology Lab II- Linked Learning. 1 Unit
Prerequisite(s): Admission to the Master of Arts in Teaching with Single Subject Credential program and completion of EDSS 373A
Term Typically Offered: Fall, Spring

This course will offer support and instructions of facilitating and improving learning of a diverse student population in Linked Learning settings by creating, using, and managing appropriate technological processes and resources. Instruction occurs through labs, online resource center and individualized support. Candidates develop a range of technology skills and knowledge needed for effective instruction in the Linked Learning classroom and provides technology resources associated with project-based learning and integrated curricular units. Credit/No Credit

EDSS 376. Secondary Mathematics Methods for In-service Teachers. 3 Units
Prerequisite(s): California Teaching Credential (Multiple Subjects or Single Subject)
Term Typically Offered: Fall, Spring, Summer

This course provides instruction to organize instructional materials, techniques of presentation and methods of evaluation for secondary school mathematics. It will be based on the research of the National Council of Teachers of Mathematics (NCTM) and Mathematics Framework for California Teachers. The participants will learn how to apply current research to their practice through development of lessons and assessment tools. They will investigate a variety of instructional strategies that develop conceptual understanding, procedural fluency, and problem-solving and reasoning skills.

EDSS 378. Secondary Science Methods for In-Service Teachers. 3 Units
Prerequisite(s): California Teaching Credential (Multiple Subjects or Single Subject)
Term Typically Offered: Fall, Spring, Summer

This course is for teachers who hold a teaching credential and are pursuing an additional California Single Subject Credential in an area of science. It will introduce theoretical bases and practical applications of science pedagogy in secondary classrooms. Participants will investigate and apply instructional strategies aligned with the state-adopted K-12 academic content standards (Next Generation Science Standards) to ensure equitable access for all students to science, and engage students to reflect the intellectual rigor of scientific inquiry.

EDSS 383A. Methods in English Education, A. 1.5 Units
Prerequisite(s): Admission to the teacher preparation program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

A critical course for English teaching preparation, educational experiences will promote understandings, attitudes and competencies necessary for effective instruction in English Language Arts and literacy in grades 7-12. Candidates acquire skills related to literacy assessment, text selection, and lesson/unit planning designed to meet the needs of all learners, including mainstream populations, English learners and students with special needs. Students are provided with opportunities to acquire skills, knowledge, practice, and experience planning for and teaching secondary English language arts and literacy. Lecture and discussion.

EDSS 383B. Methods in English Education, B. 1.5 Units
Prerequisite(s): EDSS 383A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

A critical course for English teaching preparation, educational experiences will promote understandings, attitudes and competencies necessary for effective instruction in English Language Arts and literacy in grades 7-12. Candidates acquire skills related to literacy assessment, text selection, and lesson/unit planning designed to meet the needs of all learners, including mainstream populations, English learners and students with special needs. Students are provided with opportunities to acquire skills, knowledge, practice, and experience planning for and teaching secondary English language arts and literacy. Lecture and discussion.

Note: This course is the second in a two course series

EDSS 384A. Instruction and Assessment of Academic Literacy, A. 1.5 Units
Prerequisite(s): Admission to the Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

Introduction to foundational understandings, attitudes and competencies necessary for effective instruction of academic language and literacy in 7-12 content area classrooms. Candidates acquire skills related to literacy assessment, text selection, and lesson planning designed to meet the needs of all learners, including mainstream population, English learners and students with special needs. Candidates develop an awareness of what constitutes effective content literacy instruction and a beginning repertoire of strategies to help students meet the demands of content reading, writing and discussion. Lecture and discussion.
EDSS 384B.  Instruction and Assessment of Academic Literacy, B.  1.5 Units
Prerequisite(s): EDSS 384A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second course in a two course series on understanding effective instruction of academic language and literacy in 7-12 content area classrooms. Candidates hone skills in literacy assessment, text selection, and lesson planning to meet the needs of all learners, including mainstream populations, English learners and students with special needs. Application of content literacy instruction (pre, during and post reading and writing strategies). Enhanced knowledge of strategies to support students’ attainment of the demands of content reading, writing and discussion. Lecture, discussion.

EDSS 385A.  Methods in World Language Education, A.  1.5 Units
Prerequisite(s): Admission into the Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

This course is designed for candidates who are preparing to teach world languages in secondary school settings in California public schools. Candidates will learn about current theoretical bases for second-language acquisition and how such theories inform classrooms practice. Candidates have introductory opportunities to practice principles of learning from which teachers can draw as they make decisions about instruction. Lecture, discussion and simulation. Cross Listed: WLL 385A; only one may be counted for credit.

EDSS 385B.  Methods in World Language Education, B.  1.5 Units
Prerequisite(s): EDSS 385A or WLL 385A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

This course continues learning initiated in EDSS 385A and is designed for candidates who are preparing to teach world languages in secondary school settings in California public schools. Candidates will learn additional methodologies for planning and delivering instruction in world languages. Candidates will practice instructional strategies and will design lessons. Candidates will implement assessments that capture student learning of key world language outcomes, including oral language and written language development and reading fluency. Strategies for teaching cultural appreciation are also embedded. Lecture, discussion and simulation. Cross Listed: WLL 385B; only one may be counted for credit.

EDSS 386A.  Methods in Mathematics Education, A.  1.5 Units
Prerequisite(s): EDSS 386A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

First part of a two-course sequence that provides instruction to organize instructional materials, techniques of presentation and methods of evaluation for secondary school mathematics. Articulated with student teaching and should be taken the same semester. Activities include discussions, presentations and demonstrations.

EDSS 386B.  Methods in Mathematics Education, B.  1.5 Units
Prerequisite(s): EDSS 386A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second part of a two-course sequence that provides instruction to organize instructional materials, techniques of presentation, and methods of evaluation for secondary school mathematics. Articulated with student teaching and should be taken the same semester. Activities include discussion, presentations and demonstrations.

EDSS 387A.  Methods in History/Social Science Education, A.  1.5 Units
Prerequisite(s): Admission into the Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First of a two-part field and lecture-based course which will prepare candidates to teach history-social science content and analysis skills to secondary students, particularly those who are culturally and linguistically diverse, have special needs, or are English learners. Focus on identifying and evaluating curricular resources and instructional strategies that emphasize the active use of critical thinking skills and the development of civic values for informed participation in a democratic society.

EDSS 387B.  Methods in History/Social Science Education, B.  1.5 Units
Prerequisite(s): EDSS 387A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second of a two-part field and lecture-based course which will prepare candidates to teach history-social science content and analysis skills to secondary students, particularly those who are culturally and linguistically diverse, have special needs, or are English learners. Focus on implementing curriculum and instructional strategies and assessing student mastery of grade-level content and skills that are central to history-social science disciplines.

EDSS 388A.  Methods in Science Education, A.  1.5 Units
Prerequisite(s): Admission to Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First part of a two-course sequence that provides introduction to organization of instructional materials, techniques of presentation, and methods of evaluation for secondary school science. Articulated with student teaching and should be taken the same semester. Activities include discussion, presentations and demonstrations.

EDSS 388B.  Methods in Science Education, B.  1.5 Units
Prerequisite(s): EDSS 388A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second part of a two-course sequence that provides introduction to organization of instructional materials, techniques of presentation, and methods of evaluation for secondary school science. Articulated with student teaching and should be taken the same semester. Activities include discussion, presentations and demonstrations.
EDSS 392. Teaching Strategies for the CTE Classroom: Supporting All Students. 3 Units
Term Typically Offered: Fall, Spring

This course merges the professional world of industry and the profession of teaching, in an effort to support an industry professional to transition into an education professional. It does this by examining teaching strategies in general and specifically how to apply those strategies to a classroom filled with diverse learners, including students with special needs and English language learners. This is accomplished through reflections, discussions, interviews, observations, readings, and field-based assignments.

EDSS 393. Assessment for Instruction in the CTE Classroom. 0 Units
Term Typically Offered: Fall, Spring

In this course, candidates identify student prior knowledge and use assessments to adapt instruction. They use differentiated instructional strategies to make content accessible to neurodiverse learners and English learners. Candidates reflect on and evaluate the overall effectiveness of their curriculum plan. They understand and honor legal and professional obligations and appropriately use computer-based technology. In the capstone assignment, candidates plan for and teach a unit in the classroom, using assessment data to reflect upon the effectiveness of their instruction.

EDSS 401. Observation and Participation in Secondary Classrooms. 2 Units
Prerequisite(s): Admission to Teacher Preparation Program
Teacher candidates will observe and participate as teaching assistants in public school secondary classrooms.
Credit/No Credit

EDSS 440. Work-Based Learning Field Experience. 2 Units
Prerequisite(s): Admission to the Single Subject Credential program
This fieldwork course focuses on the work-based learning core component of Linked Learning/Career Pathways. After an orientation to work-based learning, its function in Linked Learning/Career Pathways, and how it can be integrated into core curriculum, candidates will experience a non-paid, one-week internship at a worksite associated with one of the 15 major CA industries. Candidates develop work-based knowledge and experiences to be applied when they create a subject-specific curricular unit incorporating their work-based learning. Fieldwork, discussion.

EDSS 470A. Field Experience: Secondary. 6 Units
Prerequisite(s): Acceptance into the Sacramento State Single Subject Teaching Credential Program.
Term Typically Offered: Fall, Spring

Provides candidates with field experiences of increasing complexity and responsibility as they engage in cycles of teaching. Public school assignment in a secondary school serving culturally and linguistically diverse community for one university semester with three periods of responsibility: English learner class, single subject content class, and an observation/consultation period. Observations and supervised teaching experiences will be systematic and structured.
Credit/No Credit

EDSS 470B. Student Teaching: Secondary. 12 Units
Term Typically Offered: Fall, Spring

Provides candidates with field experiences of increasing complexity and responsibility as they engage in cycles of teaching. Experiences will be systematic and structured. Student teachers will be placed for the public school’s semester at a school serving linguistically and culturally diverse students. Candidates become more independent with primary responsibility for cycle of teaching with equivalent of three periods supervised teaching and one consultation period.
Credit/No Credit

EDSS 471A. Elementary Physical Education Student Teaching. 5 Units
Prerequisite(s): Acceptance into the Sacramento State Single Subject Teaching Credential Program.
Term Typically Offered: Fall, Spring

The elementary physical education teacher will be placed in a setting where he/she is able to plan, implement, promote and assess a developmentally appropriate physical education program that meets the diverse needs, interests and abilities of elementary school children, K-6.
Credit/No Credit

EDSS 471B. Secondary Physical Education Student Teaching. 4 Units
Prerequisite(s): The successful completion of EDTE 471A.
Term Typically Offered: Fall, Spring

The secondary physical education student teacher will be placed in a setting where he/she is able to plan, implement, promote and assess a developmentally appropriate physical education program that meets the diverse needs, interests and abilities of secondary school children, 6-12.
Credit/No Credit

EDSS 474A. Field Experiences in Secondary Schools. 6 Units
Prerequisite(s): Admission into the Single Subject Teaching Credential Program
Term Typically Offered: Fall, Spring

Provides candidates with field experiences of increasing complexity and responsibility as they engage in cycles of teaching. Public school assignment in a secondary school serving culturally and linguistically diverse community for one university semester with three periods of responsibility: English learner class, single subject content class and an observation/consultation period. Observations and supervised teaching experiences will be systematic and structured.
Credit/No Credit

EDSS 474B. Student Teaching in Secondary Schools. 8 Units
Prerequisite(s): EDSS 474A; all subject matter competence and basic skills requirements met, per CTC program standards
Term Typically Offered: Fall, Spring

Candidates engage in student teaching, taking on tasks of increasing complexity and responsibility as they perform cycles of teaching. Student teaching will be systematic and structured. Student teachers will be placed for the public school’s semester at a school serving linguistically and culturally diverse students. Candidates become more independent with primary responsibility for cycle of teaching with equivalent of three periods supervised teaching and one consultation period.
Credit/No Credit
EDSS 474C. Intern Teaching in Secondary Schools. 8 Units
Prerequisite(s): EDSS 474A and department approval.
Term Typically Offered: Fall, Spring

Single subject intern teaching in a public school setting with diverse learners. Intern teaching is completed concurrently with integrated coursework and focuses primarily on planning, implementing, and assessing instruction for a whole class of students.
Credit/No Credit

EDSS 500. Classroom Inquiry Project: Culminating Experience. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243.
Term Typically Offered: Spring only

Course establishes that master candidates have acquired the essential knowledge and skills covered in each of the courses leading to the Master of Arts in Teaching with Single Subject Teaching Credential. Proficiency is demonstrated through a comprehensive examination of essential content of each course in the master's degree program. Candidates will produce a written portfolio, accompanying executive summary, and oral presentation of the body of work completed during the Master of Arts in Teaching with Single Subject Teaching Credential program. Cross listed: EDMS 500.
Credit/No Credit

EDSS 599. Continuous Master of Arts in Teaching Enrollment. 0 Units
Prerequisite(s): Student has completed all MAT coursework prior to, and earned an RP in, EDMS 500 or EDSS 500.
Term Typically Offered: Fall, Spring

This is a zero-unit course for students in the Master of Arts in Teaching (MAT) program who earn an RP in their culminating experience course, EDMS/EDSS 500. The purpose of this course is to allow MAT students to maintain their continuous enrollment status while they complete the culminating experience requirements for the MAT program. Credit/No Credit

Early Childhood Special Education - Added Authorization

Units Required for Credential: 26

Program Description
The Early Childhood Special Education Added Authorization (ECSEAA) Program is available for both qualified current Education Specialist teaching credential candidates (those admitted to the Education Specialist programs for Extensive Support Needs or Mild to Moderate Support Needs) and qualified in-service Education Specialist teachers (who hold a current Education Specialist credential). The program is a fully online (in synchronous formats) distance-learning program designed to meet the growing need across California for early intervention, preschool, and kindergarten Education Specialist educators. Upon admittance to the ECSEAA program, the candidates will take 5 courses (alongside the ECSE candidates in the MAT program), complete 1 early fieldwork experience (which can be completed as an intern teacher), and complete 2 student or intern teaching experiences (Infant/Toddler and Preschool/Kindergarten). Additionally, as is offered for the ECSE preliminary credential, ECSEAA candidates are provided with individualized advising and have two options for completing their fieldwork experiences: student teaching or intern teaching. Program assessments include reflective papers, class activities and discussions, applied coursework projects, signature assignments, a comprehensive fieldwork evaluation rubric, and a program exit survey.

This program will consider two categories of candidates for admission:

1. Those who have already been admitted to the Master of Arts in Special Education Teaching (Extensive Support Needs or Mild to Moderate Support Needs) and will earn the authorization prior to or concurrent with the MASET, or
2. Those who hold a preliminary or clear Education Specialist: Mild to Moderate Disabilities (or Mild to Moderate Support Needs) or Education Specialist: Moderate to Severe Disabilities (or Extensive Support Needs).

Program Admission Requirements
Candidates already admitted to the Master of Arts in Teaching with Mild to Moderate Support Needs or Master of Arts in Teaching with Extensive Support Needs must meet the following additional admissions requirements in order to be considered for the Early Childhood Special Education Added Authorization:

1. Be in good academic standing;
2. Meet with their Faculty/Program Advisor and obtain a recommendation to submit with the ECSEAA application;
3. Complete a required interview;
4. Complete the required admissions application form which is available from the program coordinator or on the Teaching Credentials website.

Candidates applying for admission who hold a preliminary or clear Education Specialist: Mild to Moderate Disabilities (or Mild to Moderate Support Needs) or Education Specialist: Moderate to Severe Disabilities (or Extensive Support Needs) teaching credential must complete the campus application through Cal State Apply by all posted deadlines. Admissions requirements include:

1. Evidence of current Education Specialist: Mild to Moderate Disabilities (or Mild to Moderate Support Needs) or Education Specialist: Moderate to Severe Disabilities (or Extensive Support Needs) teaching credential.
2. Submit two references.
3. Certificate of Clearance (COC) security clearance issued by the Commission on Teacher Credentialing must be submitted.
4. Grade Point Average (GPA) of at least 2.5 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from submitting official transcripts from every college/university attended.
5. Participate in the mandatory interview.

Detailed descriptions of all admissions requirements are contained in the program's application instructions, which are available on the Teaching Credentials Application website.

Additional Information for All Admitted Program Candidates

Continued Enrollment: Continued enrollment in the Early Childhood Special Education Added Authorization (ECSEAA) Program is contingent upon the candidate maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of "D", "F", and "NC" (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee. Any student on academic
prohibition is subject to automatic disqualification unless approved by the Credential Appeals Committee to continue.

Grade Requirement for the ECSE Added Authorization: Any grade below C- in a course that meets a requirement must be retaken in order to meet authorization requirements.

Delays: Candidates who have to delay progress in the Early Childhood Special Education Added Authorization Program will file a "Program Delay Petition" in the Credentials Office. A student returning after a delay may be accommodated on a space available basis. Candidates must return and complete the program within the seven-year limit for graduate programs.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation, except for those policies set by the Commission on Teacher Credentialing or state education code. Appeals petitions and assistance are available in the Teaching Credentials Office.

Program Requirements

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<tr>
<td>EDSP 477</td>
<td>ECSE Student Teaching: Preschool/Kindergarten</td>
<td>6</td>
</tr>
<tr>
<td>or EDSP 478</td>
<td>ECSE Intern Teaching</td>
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</tbody>
</table>

Education Specialist Credential Program: Mild/Moderate with Multiple Subject

This program is scheduled for discontinuation, please see the Master of Arts in Special Education Teaching (Mild to Moderate Support Needs) with Multiple Subject (p. 533)

Total units required for Credential: 54-62

Program Description

The Education Specialist Instruction Credential authorizes the holder to provide instruction and special education support as well as conduct Educational Assessments related to student’s access to the academic core curriculum. Support services can be provided according to the credential holder’s area of specialization in the following settings:

- Resource rooms or services
- Special education settings
- General education settings
- Special schools
- Home/hospital settings
- State hospitals
- Development centers
- Correctional facilities
- Non-public, non-sectarian schools and agencies
- Alternative and non-traditional instructional
- Public school settings other than classroom

Programs offered lead to Certificates of Eligibility and/or the Preliminary Credential in three specialties:

- Education Specialist: Teaching Credential Program: Early Childhood Special Education
- Education Specialist: Mild/Moderate Disabilities Specialist (M/M) and
- Education Specialist: Moderate/Severe Disabilities Specialist (M/S).

All above specialties comply with regulations and standards as issued by SB2042 and AB1059 (English Language Authorization).

University- and California Commission on Teacher Credentialing (CTC) approved program options also allow candidates to pursue the M/M or M/S specialty concurrently with the Multiple Subject Credential. Another approved program allows candidates to add an ECSE Certificate to existing Clear M/M, M/S or other California Special Education Specialist credentials. For additional information regarding the ECSE Certificate, please contact the ECSE Coordinator (current the program is on hiatus) or Teaching Credentials Office.

All credential programs undergo continual review and change; current requirements are available on the Teaching Credentials website (http://www.csus.edu/coe/academics/credentials/). All candidates are required to seek advisement regarding credential coursework and must complete a program advisement plan prior to the start of the program. Candidates must take prerequisites prior to the start of the program; candidates who continue without advisement or do not complete prerequisites prior to the start of the program may be disenrolled.

Special Education Internships

All Preliminary Education Specialist programs at Sacramento State have been approved by CCTC as internship programs. In order to be eligible for an Intern Education Specialist Credential, candidates must

- have been admitted and cleared all admission requirements for the credential program;
- have received the recommendation of a faculty member;
- have received an offer of employment from an employer; and
- be pursuing an internship with a district/school that has a written internship agreement (Memorandum of Understanding) with Sacramento State.
Only candidates in their final semester of the program can be considered for internships.

Note: Candidates working under an Education Specialist Internship Credential must concurrently fulfill the requirements of the credential program and the internship appointment.

### Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential Requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

### Preliminary Teaching Credential Requirements

Completion of the Preliminary Teaching Credential requires that the candidate:

- hold a baccalaureate or higher degree in a field other than professional education from a regionally accredited college or university;
- complete an approved program of teacher preparation, including student teaching;
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the elementary school level, complete either an approved subject matter program or pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the secondary school level, complete either an approved subject matter program in one of the core academic subject areas or pass an approved subject-matter examination in a core academic subject area (CSET: California Subject Examination for Teachers);
- for a Multiple Subject credential, pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for Single Subject, complete either an approved subject matter program or pass the approved subject-matter examination (CSET) in the appropriate teaching area;
- for Single Subject, complete an approved course in the teaching of reading;
- for Multiple Subject, complete an approved course in the teaching of reading and pass the Reading Instruction Competence Assessment (RICA) exam;
- pass a college-level course or examination on the U.S. Constitution; and
- demonstrate California Basic Educational Skills (see subsection below on options available).

Teaching Credentials offers a variety of pathways for completing the Preliminary Credential programs depending on the program:

- a one-year (two-semester) program;
- a three-semester program;
- a two-year (four-semester) program – Education Specialist programs only; part-time options are available which will increase time to program completion

Field experience and student teaching are integral parts of the program leading to Preliminary Credentials. In both the Multiple Subject and Single Subject Teacher Preparation programs, candidates move through the program in cohorts. Full-time Education Specialist candidates follow a tightly-sequenced series of courses. In all teacher preparation programs, candidates complete fieldwork in public schools. All candidates will have experience working with children or youth from a broad range of cultural, ethnic, economic and special learning needs backgrounds.

### Program Admission Requirements at a Glance

1. Experiences related to working with children or youth
2. References (2)
3. Essay
4. Official Transcripts from every college/university attended
5. Writing Proficiency
6. Basic Skills Competence (i.e., pass the CBEST)
7. Subject Matter Competence (i.e., pass the CSET)
8. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units
9. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, PUBH 136, and KINS 172 (MS only – equivalent workshop can be taken during the program)
10. Complete the Mandatory Interview

### Applications Required at a Glance

- Teaching credentials Supplemental Program Application
- CSU Graduate School Application
- Certificate of Clearance Application (and fingerprint clearance through CTC)

### Admission Requirements – General Information Only

Experiences Related to Working with Children or Youth (paid and/or volunteer)

A minimum of 45 hours of experience (closer to 100+ hours if you want to be competitive) with diverse populations is required to be considered for program admission. Possible field experiences can include: classroom instructional aide, tutoring, afterschool program, Peace Corps, camp counseling, child/youth recreation programs, coaching, group/home counseling, church school teaching, etc. Your responses will be evaluated using the following criteria:

- **Recency:** Experience needs to be recent – at least within 1-2 years of the application period. You can list all experiences gained on the supplemental application, but regency is key.
- **Settings:** Majority of your experiences should be in appropriate settings/schools (ideally public schools) with culturally, linguistically, and socioeconomically diverse students of the age group (i.e., elementary school, high school, etc.) or population (i.e., special
needs population) you plan to teach. You will list the diversity of your experiences on the supplemental application.

- **Supervision:** Has the verifiable experience been gained under supervision? If so, you will need to list names of your supervisors on the supplemental application.

**References**

Applicants submit two reference forms (included in the supplemental application). Letters of recommendation will not be accepted in lieu of reference forms. Only reference forms submitted in sealed envelopes will be accepted. It is recommended that one of the references be from a person who has observed the applicant’s academic competence (current or former instructor) and the other reference from a person who has observed the applicant working with children or youth. NOTE: References from family members will not be accepted.

**Essay**

Discuss a critical, current issue in teaching/education and the relationship of this issue to your motivation to become a teacher in a typed, two-page, double-spaced essay. NOTE: This prompt is subject to change.

**Transcripts**

Applicants must provide official, sealed transcripts from every community college/college/university attended, even if only ONE class was completed. Sacramento State students and Sacramento State graduates are exempt, unless coursework was completed at another college after you graduated.

**Writing Proficiency**

Satisfying writing proficiency is a program admission requirement. This requirement may be met in one of the following ways:

1. Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); or
2. Pass the CSET: Writing Skills Test (Multiple Subject applicants only); or
3. Meet the graduation writing requirement (GWAR) at any CSU campus; or
4. Successfully complete an upper-division advanced English composition course, with a “B” grade or better.

**Basic Skills Requirement (BSR)**

Satisfying the basic skills requirement is a program admission requirement. Select one of the following options to meet this requirement. For detailed information visit the CTC website (https://www.ctc.ca.gov/credentials/leaflets/cl667.pdf).

1. Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed
2. Pass the CSU Early Assessment Program (EAP) English and Math sections (tests completed in high school)
3. Pass the CSU English Placement Test (EPT) and the Entry Level Math (ELM) Test (For more information, visit the Testing Center website (http://www.csus.edu/testing/))
4. Pass the CSET: Writing Skills Test (available to Multiple Subject applicants only)
5. Pass a basic skills examination from another state

Register online at the CTC Exams website (http://www.ctcexams.nesinc.com). Take exams no later than February for FALL admission consideration.

**Subject Matter Competence (SMC)**

Applicants are required to meet SMC to be considered for admission:

- **Special Education:** Applicants holding one of the following types of credentials may have met the subject matter competency requirement: five-year preliminary, clear, professional clear, or life credential in the following authorizations: Multiple Subject, Single Subject, Standard Elementary, Standard Secondary, General Elementary, or General Secondary. Applicants who do not hold one of the types of credentials listed above can meet SMC through one of the following options:

  - • CSET for Multiple Subjects option or
  - • Single Subject option (see requirements below)

- **Multiple Subject:** All applicants must satisfy SMC by passing the California Subject Examinations for Teachers (CSET): Multiple Subjects subtests I, II, and III. NOTE: CSET passing scores on all three (3) subtests are required for admission consideration. Take exams no later than February for FALL admission consideration. Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).

- **Single Subject:** Applicants may satisfy SMC in ONE of two ways, either (1) by examination or (2) by completing an approved undergraduate program of subject matter coursework.

1. **Examination(s)** Take and pass the California Subject Examinations for Teachers (CSET) in your subject area. Be sure to take all required subtests in your teaching area. NOTE: CSET passing scores on all subtests are required for admission consideration. Take exams no later than February for FALL admission consideration. Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).

2. **Coursework** Complete a California Commission-approved undergraduate academic subject matter preparation (SMP) program from an accredited California college/university.

**SMP Coursework Options**

- **The Sacramento State Subject Matter Program (SMP)** is a California approved baccalaureate program that prepares individuals for teaching. Sac State students completing a SMP must meet with an approved advisor as soon as possible in order to complete the Subject Matter Competence Verification Form. For a listing of faculty advisors visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/smp-advisor-20160926.pdf).

- **Non-Sacramento State applicants** who completed an approved SMP on a California campus other than Sacramento State must submit verification of completion of the SMP on letterhead stationery of your school, signed by the approved evaluator, instead of using the Subject Matter Competence Verification Form. Check with your College’s Credentials Office for the approved evaluator.

**Grade Point Average (GPA) Required**

In order to be considered for admission to a Teaching Credential Program, applicants must have attained a cumulative GPA of at least 2.67 in all
baccalaureate and post-baccalaureate course work (if completed) OR a GPA of at least 2.75 in the last 60 semester or 90 quarter units attempted.

Pre-requisite Credential Courses – to be completed PRIOR to starting the credential programs:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>EDUC 100A</td>
<td>Educating Students with Disabilities in Inclusive Settings</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 100B</td>
<td>Educating Students with Disabilities in Inclusive Settings Lab</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 170</td>
<td>Introduction to Bilingual Education: Policies, Principles, Programs, and Practices</td>
<td>3</td>
</tr>
<tr>
<td>KINS 172</td>
<td>Movement Education</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 136</td>
<td>School Health Education</td>
<td>2</td>
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</tbody>
</table>

1 For MS only. If admitted, an equivalent PE/Health methods workshop can be completed during the credential program.

List of equivalent courses, visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/cred-equivalencies-prereqs-20160712.pdf).

Interview
All applicants must participate in a one-hour group interview as part of the screening process. After the supplemental program application is received by the Department, applicants are notified by email of the interview process and dates.

Applications Required

CSU Graduate School Application for the University:
Applicants not currently attending Sacramento State, Sacramento State graduating seniors, and Sacramento State students completing a master’s degree or second bachelor’s degree MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line.

Transcripts: Applicants who did not graduate from Sacramento State must submit one (1) set of sealed, official transcripts from ALL community colleges/colleges/universities attended, even if only ONE class was completed. If you have questions about the University graduate school application process, please contact the OGS at (916) 278-6470.

Foreign degrees: Transcripts from applicants with degrees from outside of the United States must review the information/instructions on the Office of Graduate Studies website (http://www.csus.edu/gradstudies/FutureStudents/ApplicantsWithForeignDocuments/).

NOTE: Foreign transcripts and other supporting documents are usually due much earlier than University and department application deadlines.

Teaching Credentials Program Supplemental Application:
All applicants must submit a supplemental program application packet that includes: a list of experiences related to teaching/working with children/youth, an essay, two completed & sealed reference forms, writing proficiency verification, subject matter competency verification, and basic skills requirement verification (CBEST or other approved verification). Beginning in OCTOBER every year, the supplemental program applications with instructions/current requirements are available on the Teaching Credentials website (http://www.csus.edu/coe/apply/credentials.html). Credential programs only begin in FALL semesters. Complete supplemental applications and all supporting documents must be submitted to the Teaching Credentials by February.

The exact submission deadline date is posted once applications are available on the website.

Certificate of Clearance (COC/Fingerprint Clearance):
ALL applicants must submit verification of having been issued a clearance by the CA Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

- Applicants who have already been issued a clearance/permit/credential must submit a printout from the CTC website (https://www.ctc.ca.gov/) showing the issuance date of a valid CA 30-day emergency permit, a valid CA Child Development Associate/Center permit, a valid CA credential, or a valid Certificate of Clearance.

- Applicants who have NOT been issued a clearance/permit/credential must apply for the Certificate of Clearance on the CTC website as well as complete the Live Scan fingerprinting process. Tips for completing the online application and Live Scan process can be found on the CTC website (https://www.ctc.ca.gov/credentials/online-services/pdf/web-app-tips.pdf). Proof of applying for the clearance and completing the Live Scan process MUST be submitted with the supplemental credential program application packet. Include as proof the following: a copy of the ‘Payment Receipt’ page from the on-line COC application AND a copy of your completed and scanned Live Scan form.

- Once your clearance is issued, you will receive an email from the CTC. Print this email and submit it with your supplemental program application packet. Or, if the email is received after you have submitted your application, submit the email directly to the Teaching Credentials Department in Eureka Hall - 401.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential OR if you are applying for a Special Education credential program, verify a valid Multiple or Single Subject credential.

NOTE: If you answered “YES” to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (https://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take six months or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

Verification of Bachelor’s Degree
ALL applicants must obtain a bachelor’s degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as “Degree(s) Awarded” with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher
Credentialing (CTC), visit the CTC website (https://www.ctc.ca.gov/credentials/accrreditation-bodies.html).

**Foreign Transcript Evaluation**
Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees¹, and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CCTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation. For additional information on foreign transcript evaluations please visit the CTC website (https://www.ctc.ca.gov/credentials/leaflets/c1635.pdf).

¹ The bachelor's degree requirement for California credentials refers to the equivalent of a four-year (or more) college-level program.

**Verification of completing the United States Constitution Requirement**
California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement.

**Additional Information for All Admitted Credential Candidates**
- **Continued Enrollment:** Continued enrollment in a Preliminary Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of "D", "F", and "NC" (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.
- **Delays:** Candidates who have to delay progress in a Preliminary Credential Program file a "Program Delay Petition" in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification as a Credential candidate.

**Appeal Process:** A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office.

**Bilingual Authorization (BA)**
The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all credential candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator, Karina Figueroa-Ramirez (figueroaramirez@csus.edu), for an advising appointment to review your transcripts.

### Specific Additional Admission Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EDUC 100A</td>
<td>Educating Students with Disabilities in Inclusive Settings</td>
<td>2</td>
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<tr>
<td>EDUC 100B</td>
<td>Educating Students with Disabilities in Inclusive Settings Lab</td>
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<tr>
<td>EDUC 170</td>
<td>Introduction to Bilingual Education: Policies, Principles, Programs, and Practices</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 136</td>
<td>School Health Education</td>
<td>2</td>
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Course/experience equivalencies may be granted by assigned EDS advisor as warranted.

**Note:** To obtain the Clear Multiple Subject Credential, candidates must successfully complete a CCTC approved induction program, determined by employer.

### Program Requirements

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<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>EDSP 119</td>
<td>Legal and Social Foundations of Inclusive Education</td>
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<td>EDMS 314</td>
<td>Mathematics Curriculum and Instruction for the Diverse K-8 Classroom</td>
<td>3</td>
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<tr>
<td>EDSP 220</td>
<td>Language and Literacy in Inclusive Classrooms I</td>
<td>3</td>
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<tr>
<td>EDSP 221</td>
<td>Language and Literacy in Inclusive Classrooms II</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 225A</td>
<td>Assessment and Evaluation for Students with Mild/Moderate Disabilities</td>
<td>2</td>
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<tr>
<td>EDSP 225B</td>
<td>Assessment and Evaluation for Students with Mild/Moderate Disabilities Lab</td>
<td>1</td>
</tr>
<tr>
<td>EDSP 229</td>
<td>Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 230</td>
<td>Positive Behavior and Social-Emotional Supports for Students with Mild to Moderate Support Needs</td>
<td>3</td>
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<td>EDSP 232</td>
<td>Initial Seminar: Reflective Teaching Practice, Collaboration, &amp; Communicative Competence</td>
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<td>EDSP 233</td>
<td>Final Seminar: Mild to Moderate Support Needs</td>
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<tr>
<td>EDSP 237</td>
<td>Transition Strategies for Students with Mild to Moderate Support Needs</td>
<td>3</td>
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<td>EDSP 292</td>
<td>Teaching English Learners with Disabilities</td>
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<td>EDSP 471</td>
<td>Mild to Moderate Support Needs Field Experience</td>
<td>4 - 6</td>
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<td>EDSP 420A</td>
<td>Multiple Subject Field Experience</td>
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<tr>
<td>EDSP 472</td>
<td>Mild to Moderate Support Needs Student Teaching</td>
<td>5</td>
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<tr>
<td>or EDSP 473</td>
<td>Mild to Moderate Support Needs Intern Teaching</td>
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### Multiple Subject Course Requirement (17 Units)

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</thead>
<tbody>
<tr>
<td>EDMS 300</td>
<td>History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDMS 315</td>
<td>Science Curriculum and Instruction for the Diverse K-8 Classroom</td>
<td>3</td>
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</tbody>
</table>
**Master of Arts in Special Education Teaching (Education Specialist Early Childhood)**

**Total Units for Completion: 65-77**

**Program Description**

The MA in Teaching (Early Childhood Special Education (ECSE)) blends a teacher preparation program with a Master of Arts in Teaching (MAT). This program is a distance learning program offered fully online to candidates across the state of California who are more than 30 miles away from the Sacramento State campus (those within 30 miles of campus can take some courses in person while distance learners join via remote technology). Courses are taken in the evening. Fieldwork is completed in a school district program located near the candidate, while supervision of fieldwork is provided online in a mostly live/synchronous format.

The Education Specialist ECSE Teaching Credential authorizes the holder to provide educational services to infants, toddlers, preschool, and kindergarten age children with disabilities and their families in home-based programs, center-based settings, and school-based settings. This credential embeds the English Learner Authorization (ELA) and Autism Spectrum Disorder (ASD) Authorization, which prepares candidates to work with second language learners and students with autism spectrum disorder, respectively. Additionally, teacher candidates may choose to apply to be an intern during the course of their program.

- The ECSE Teaching Credential provides candidates with applied experiences through coursework connecting theory to practice and supervised work with children (birth to kindergarten, all disabilities) across early field experiences and two student teaching experiences: 1) Infant/Toddler, and 2) Preschool/Kindergarten. Student teachers have the option of being employed on an intern credential. The teacher preparation coursework focuses on preparing effective teachers for working with diverse student populations with an emphasis on preparing socially just teachers and leaders for systems change, committed to equity and inclusion in culturally and linguistically diverse schools and communities.

- The MAT coursework focuses on inquiry-based education which includes hands-on instruction with problem-based learning and issue-centered curriculum and a focus on reflection during the teaching and research process. The program foundation rests in social justice and equity in education for all children and youth, including those with disabilities and their families.

Upon completion of the ECSE Teaching Credential coursework, program candidates may complete an additional sequence of four MAT courses (15 additional units), if they choose to finish the MAT. Throughout the MAT program, candidates will learn how to critically examine evidence-based practices, policy issues, and current research on teaching and learning in the field of special education. Candidates will be expected to apply analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students, including English Learners and children and youth with disabilities. Candidates also will conduct original teacher action research using practice-based methods in diverse educational settings. The materials and associated activities presented in the MAT coursework are highly integrated to support candidates with successful completion of the Master of Arts in Teaching degree at the end of the program.

**Master of Arts in Special Education Teaching (Early Childhood Special Education)**

The California Commission on Teacher Credentialing (CTC) establishes admissions requirements for all preliminary teaching credential programs and the CSU Chancellor’s Office further specifies admissions requirements. The requirements listed below may be subject to change, based on actions of these two governing bodies. Interested applicants are encouraged to contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639, an advisor in the Student Success Center (https://www.csus.edu/college/education/student-support/), or the MAT with Credential program website (https://www.csus.edu/college/education/teaching-credentials/apply.html) for the most current admissions requirements.

**Program Admission Requirements**

1. A Baccalaureate degree is required for admission to the MAT.

2. Minimum of 45 hours of experience working with children or youth in a preK-12 classroom or equivalent is recommended.

3. Submit two references: one from a person who has observed the applicant’s academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. **NOTE:** References from family members will not be accepted.

4. Submit a graduate writing sample.

5. Satisfy writing proficiency by meeting the Basic Skills Requirement.

6. Satisfy the Basic Skills Requirement. For more detailed information, visit the CTC website (https://www.ctc.ca.gov/). Example of ways to satisfy Basic Skills Competence include:

   a. Pass the California Basic Educational Skills Test (CBEST)
   b. Pass the CSET Multiple Subjects plus Writing Skills examination
   c. Pass the CSU Early Assessment Program (EAP) or the CSU Placement Examinations
   d. Achieve qualifying score on the SAT or ACT (see the CTC website (https://www.ctc.ca.gov/))
   e. Score a 3 or above on specific AP examinations (see the CTC website (https://www.ctc.ca.gov/))
   f. Earn a grade of “B-” or better in specific college or university courses as detailed on the (https://www.ctc.ca.gov/JCTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/).
   g. Mix and Match as detailed on the CTC website (https://www.ctc.ca.gov/).
7. Grade Point Average (GPA) of at least 2.5 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from official transcripts from every college/university attended.

8. Complete Credential Prerequisite Courses: CHAD 30 (https://catalog.csus.edu/search/?search=CHAD+30), EDUC 170, EDUC 100A, EDUC 100B. List of equivalent coursework is located on the Teaching Credentials website (https://www.csus.edu/college/education/teaching-credentials/apply.html).

9. Certificate of Clearance (COC) security clearance issued by the Commission on Teacher Credentialing; evidence of submitting the COC application and fingerprints must be submitted at application.

10. Participate in a Mandatory Interview.

Detailed descriptions of all admissions requirements are contained in the program’s application instructions, which are available on the Teaching Credentials Application website (https://www.csus.edu/college/education/teaching-credentials/apply.html).

Applications Required
CSU Graduate School Application for the University
Sacramento State graduating seniors, Sacramento State students completing a master’s degree or second bachelor’s degree, and applicants not currently attending Sacramento State MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line: Cal State Apply (https://www2.calstate.edu/apply/)

Supplemental Application
A separate Supplemental Application is only required for current undergraduate Sacramento State students who are not graduating, who are applying to take first semester program coursework while still classified as an undergraduate. Complete supplemental applications and all supporting documents must be submitted to Teaching Credentials by the deadline indicated on the Teaching Credentials website. The link is posted on the Teaching Credential website in October of the year prior to admission.

Additional Information
Certificate of Clearance (COC/Fingerprint Clearance)
All applicants must submit verification of having been issued a security clearance by the Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential or a valid Multiple or Single Subject credential.

NOTE: If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (https://www.ctc.ca.gov/) for instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional documentation to CTC, the processing of your clearance application can take SIX MONTHS or longer. This means you may not be eligible to start the program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Verification of Bachelor's Degree
All applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (https://www.ctc.ca.gov/).

Foreign Transcript Evaluation
Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees, and other relevant documents prior to applying for the program. This evaluation is required by the California Commission on Teacher Credentialing (CTC) and the university. It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation (https://www.ctc.ca.gov/) for additional information on foreign transcript evaluations please visit the CTC website (https://www.ctc.ca.gov/) and the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/future-students/applicants-with-foreign-documents.html).

Verification of completing the United States Constitution Requirement
California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement. More information can be found by contacting pre-credential advisors in the College of Education Student Success Center (https://www.csus.edu/college/education/student-support/).

Minimum Units and Grade Requirement for the MAT Degree
Units required for the MAT degree: 30
Minimum Cumulative GPA for the MAT degree: 3.0

Additional Information for All Admitted Program Candidates: Credential Coursework
Continued Enrollment: Continued enrollment in the MAT in Teaching with Early Childhood Special Education Teaching Credential Program is contingent upon candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of "D", "F", and "NC" (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee. Any student on academic probation is subject to automatic disqualification unless approved by the Credential Appeals Committee to continue.
Grade Requirement for the ECSE Credential: Any grade below C- in a course that meets a credential requirement must be repeated in order to meet credential requirements.

Delays: Candidates who have to delay progress in the MA in Teaching with Early Childhood Special Education Teaching Credential Program will file a "Program Delay Petition" in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Candidates must return and complete the program within the seven-year limit for graduate programs.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation, except for those policies set by the Commission on Teacher Credentialing or state education code. Appeals petitions and assistance are available in the Teaching Credentials Office.

Licensure

Admission into programs leading to licensure does not guarantee that students will obtain a license. Licensure requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure requirements.

Additional Information for All Admitted Program Candidates: MAT Degree

Grade Requirement for the Master's Degree: Courses required for the Master of Arts in Teaching degree require a grade of B- or better in order to be used to satisfy the requirements of the Master's degree. If a student receives below a B- in any course required for the Master's degree, the course must be successfully repeated with a grade of B- or better in order to satisfy the requirements of the degree program (grades of C- or better will satisfy the requirements for the teaching credential).

Delays: Candidates who have to delay progress in the MA in Teaching with Early Childhood Special Education Teaching Credential Program will file a "Program Delay Petition" in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Candidates must return and complete the program within the seven-year limit for graduate programs.

Advancement to Candidacy Procedures: Each student working toward a Master of Arts in Teaching degree must file an application for Advancement to Candidacy for the degree. The purpose of this application is to provide certification to the Office of Graduate Studies that the student will complete the necessary requirements and coursework for the Master's degree. The student must be advanced to candidacy the semester prior to enrolling in EDSP 500.

This procedure should begin as soon as the classified graduate student has:

• Completed 21 units in the graduate program with a minimum 3.0 GPA; and
• Met the Graduate Writing Requirement through completion of the Graduate Writing Intensive (GWI) course, EDSP 281, with a B grade or better.

Advancement to Candidacy forms are available online through the Office of Graduate Studies. The student should complete the form in consultation with the MAT Program Coordinator. The form must be submitted online with the Office of Graduate Studies for approval.

Culminating Experience Enrollment: Before enrolling in EDSP 500, the student must submit a reservation form for a Culminating Experience to the MAT Program Coordinator.

Continuous Enrollment in the Master's Degree: Enrollment in EDSP 500 for the culminating experience is for one semester. The expectation is that students will complete the culminating experience during EDSP 500. Up to three semesters of continuous enrollment (EDSP 599) are allowed if the Culminating Experience advisor deems a reasonable amount of progress has been made and assigns a grade of "RP" for EDSP 500. If students fail to make adequate progress while enrolled in EDSP 500 and there are no mitigating circumstances (e.g., illness), a grade of "no credit" is given, and the student must re-enroll in EDSP 500.

Bilingual Authorization (BA)
The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all program candidates with oral and written fluency as well as cultural/historical knowledge of the target group (currently approved languages include Spanish or Hmong; other languages are in the process of being approved). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator (https://www.csus.edu/college/education/student-support/equity-office.html) for an advising appointment to review your transcripts.

Program Requirements

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<td>EDSP 209</td>
<td>Developing Augmentative &amp; Alternative Communication Systems: Assessment and Intervention</td>
<td>3</td>
</tr>
</tbody>
</table>

Culminating Experience

EDSP 500 Classroom Inquiry/Action Research Portfolio-Culminating Experience 3

Early Childhood Special Education Concentration Courses (11 Units)

EDSP 208 Positive Behavioral Supports and Evidence-Based Practices for Youth with Autism and Related Issues 2

EDSP 210 Assessment and Evaluation in Early Childhood Special Education 3

EDSP 212 Inclusive Curriculum, Intervention Strategies, and Environments in ECSE II: Preschool & Kindergarten 3
Master of Arts in Special Education Teaching (Extensive Support Needs)

Program Description

The MA in Special Education Teaching (Extensive Support Needs) blends a teaching credential program with a Master of Arts in Teaching. The MAT program focuses on inquiry-based education which includes hands-on instruction with problem-based learning and issue-centered curriculum and a focus on reflection during the teaching and research process. The program foundation rests in social justice and equity in education for all children and youth, including those with disabilities, and their families.

The Education Specialist Extensive Support Needs (ESN) Teaching Credential authorizes the holder to provide educational services to students with extensive support needs in Grades K-12, and up to the age of 21. This credential embeds the English Learner Authorization (ELA) and Autism Spectrum Disorder (ASD) Authorization, which prepare candidates to work with second language learners and students with autism spectrum disorder, respectively. Additionally, teacher candidates may choose to apply to be an intern during the course of their program.

The ESN Teaching Credential provides candidates with applied experiences through coursework which is competency based, connecting theory to practice. Teacher candidates have supervised field experiences every semester in which they work closely with mentor teachers to develop individualized program plans for students; conduct assessments and develop instructional plans; design modifications and adaptations for participation in the core curriculum; collaborate with general education teachers, and related service providers; and engage their students’ family members in the educational process. Placements are carefully planned in order to make sure candidates experience a wide range of student abilities and challenges as well as a range of age groups. The teacher preparation coursework focuses on preparing effective teachers for working with diverse student populations with an emphasis on preparing socially just teachers and leaders for systems change, committed to equity and inclusion in culturally and linguistically diverse schools and communities.

Upon completion of the ESN Teaching Credential coursework (71-76 units), program candidates may complete an additional sequence of three Master of Arts in Teaching (MAT) courses (15 units), if they want to complete the MAT after finishing the credential. Throughout the MAT program, candidates will learn how to critically examine evidence-based practices, policy issues, and current research on teaching and learning in the field of special education. Candidates will be expected to apply analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students, including English Learners and children and youth with disabilities. Candidates also will conduct original teacher action research using practice-based methods in diverse educational settings. The materials and associated activities presented in the MAT coursework are highly integrated to support candidates with successful completion of the Master of Arts in Teaching degree at the end of the program.

Admission Requirements

The California Commission on Teacher Credentialing (CTC) establishes admissions requirements for all preliminary teaching credential programs and the CSU Chancellor’s Office further specifies admissions
requirements. The requirements listed below may be subject to change, based on actions of these two governing bodies. Interested applicants are encouraged to contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639, an advisor in the Student Success Center (https://www.csus.edu/college/education/student-support/), or the MAT with Credential program website (https://www.csus.edu/college/education/teaching-credentials/apply.html) for the most current admissions requirements.

Program Admission Requirements

1. A Baccalaureate degree is required for admission to the MAT degree program.
2. Minimum of 45 hours of experience related to working with children or youth in a K-12 classroom or equivalent is recommended.
3. Submit two references: one from a person who has observed the applicant’s academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. **NOTE:** References from family members will not be accepted.
4. Submit a graduate writing sample.
5. Satisfy writing proficiency by meeting the Basic Skills Requirement.
6. Satisfy the Basic Skills Requirement. For more detailed information, visit the CTC website (https://www.ctc.ca.gov/credentials/leaflets/cl667.pdf). Example of ways to satisfy Basic Skills Competence include:
   a. Pass the California Basic Educational Skills Test (CBEST)
   b. Pass the CSET Multiple Subjects plus Writing Skills examination
   c. Pass the CSU Early Assessment Program (EAP) or the CSU Placement Examinations
   d. Achieve qualifying score on the SAT or ACT (see the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/))
   e. Score a 3 or above on specific AP examinations (see the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/))
   f. Earn a grade of "B-" or better in specific college or university courses as detailed on the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/).
   g. Mix and Match as detailed on the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/).
7. Satisfy the Subject Matter Competence requirement. For more detailed information, visit the CTC website. Examples of ways to demonstrate subject matter competence:
   a. Take and pass all subtests of any CSET examination (e.g. the Multiple Subject/Elementary California Subject Exam for Teachers-CSET),
   b. Complete a subject matter program,
   c. Complete an approved undergraduate major as detailed on the CTC website,
   d. Complete coursework with a grade of C- or better that meets the required subject matter domains as listed on the CTC website,
   e. Mix and Match as detailed on the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/).
8. Grade Point Average (GPA) of at least 2.5 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from official transcripts from every college/university attended.
9. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B. List of equivalent coursework is located on the Teaching Credentials website (https://www.csus.edu/college/education/teaching-credentials/apply.html).
10. Certificate of Clearance (COC) security clearance issued by the Commission on Teacher Credentialing: evidence of submitting the COC application and fingerprints must be submitted at application.
11. Participate in a Mandatory Interview.

Detailed descriptions of all admissions requirements are contained in the program’s application instructions, which are available on the Teaching Credentials Application website (https://www.csus.edu/college/education/teaching-credentials/apply.html).

Applications Required

CSU Graduate School Application for the University
Sacramento State graduating seniors, Sacramento State students completing a master’s degree or second bachelor’s degree, and applicants not currently attending Sacramento State MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line: Cal State Apply. (https://www2.calstate.edu/apply/)

Supplemental Application
A separate Supplemental Application is only required for current undergraduate Sacramento State students who are applying to take first semester program coursework while still classified as an undergraduate. The application link is posted on the Teaching Credential website in October of the year prior to admission.

Additional Information

Certificate of Clearance (COC/Fingerprint Clearance)
All applicants must submit verification of having been issued a security clearance by the Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential or a valid Multiple or Single Subject credential.

**NOTE:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (https://www.ctc.ca.gov/educator-discipline/self-reporting.html) for instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional documentation to CTC, the processing of your clearance application can take SIX MONTHS or longer. This means you may not be eligible to start the program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Verification of Bachelor’s Degree
All applicants must obtain a bachelor’s degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as “Degree(s) Awarded” with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher
Foreign Transcript Evaluation
Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees, and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation. For additional information on foreign transcript evaluations please visit the CTC website (https://www.ctc.ca.gov/credentials/leaflets/cl635.pdf) and the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/future-students/applicants-with-foreign-documents.html).

Verification of completing the United States Constitution Requirement
California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement. More information can be found by contacting pre-credential advisors in the College of Education Student Success Center (https://www.csus.edu/college/education/student-support/).

Minimum Units and Grade Requirement for the MAT Degree
Units required for the MAT degree: 30
Minimum Cumulative GPA for the MAT degree: 3.0

Additional Information for All Admitted Program Candidates: MAT Degree

Advancement to Candidacy Procedures: Each student working toward a Master of Arts in Teaching degree must file an application for Advancement to Candidacy for the degree. The purpose of this application is to provide certification to the Office of Graduate Studies that the student will complete the necessary requirements and coursework for the Master's degree. The student must be advanced to candidacy the semester prior to enrolling in EDSP 500.

This procedure should begin as soon as the classified graduate student has:

- Completed 21 units in the graduate program with a minimum 3.0 GPA; and
- Met the Graduate Writing Requirement through completion of the Graduate Writing Intensive (GWI) course, EDSP 281, with a B grade or better.

Advancement to Candidacy forms are available online through the Office of Graduate Studies. The student should complete the form in consultation with the MAT in Special Education Program Coordinator. The form must be submitted online with the Office of Graduate Studies for approval.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation, except for those policies set by the Commission on Teacher Credentialing or state education code. Appeals petitions and assistance are available in the Teaching Credentials Office.

Licensure
Admission into programs leading to licensure does not guarantee that students will obtain a license. Licensure requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure requirements.
Culminating Experience Enrollment: Before enrolling in EDSP 500, the student must submit a reservation form for a Culminating Experience to the MASET Program Coordinator.

Continuous Enrollment in the Master’s Degree: Enrollment in EDSP 500 for the culminating experience is for one semester. The expectation is that students will complete the culminating experience during EDSP 500. Up to three semesters of continuous enrollment (EDSP 599) are allowed if the Culminating Experience advisor deems a reasonable amount of progress has been made and assigns a grade of "RP" for EDSP 500. If students fail to make adequate progress while enrolled in EDSP 500 and there are no mitigating circumstances (e.g., illness), a grade of "no credit" is given, and the student must re-enroll in EDSP 500.

Bilingual Authorization (BA)
The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all program candidates with oral and written fluency as well as cultural/historical knowledge of the target group (currently approved languages include Spanish or Hmong; other languages are in the process of being approved). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator (https://www.csus.edu/college/education/student-support/equity-office.html) for an advising appointment to review your transcripts.

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Extensive Supports Needs Concentration (11 Units)

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<td>EDSP 208</td>
<td>Positive Behavioral Supports and Evidence-Based Practices for Youth with Autism and Related Issues</td>
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<td>EDSP 218</td>
<td>Advanced program planning/instruction: Students with Extensive Support Needs/Multiple Disabilities</td>
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<td>EDSP 207</td>
<td>Secondary/Post-secondary methods and transition planning for Students with Extensive Support Needs</td>
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<td>EDSP 217</td>
<td>Foundations of Positive Behavioral Supports: Creating Safe and engaging Learning Environments</td>
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<td>Language and Literacy in Inclusive Classrooms I</td>
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<td>EDSP 221</td>
<td>Language and Literacy in Inclusive Classrooms II</td>
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<td>EDSP 235</td>
<td>Curriculum and Instructional Methods for students with Extensive Support Needs</td>
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<td>EDSP 238</td>
<td>Culminating Seminar for Education Specialist Candidates</td>
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<td>Field Experience II: Students with Extensive Support Needs</td>
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<td>EDSP 415</td>
<td>Student Teaching: Students with Extensive Support Needs</td>
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1. Students can take the Resident Pathway OR the Intern Pathway to fulfill their Field Experience requirement.

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<td>Advanced Intern Teaching: Students with Extensive Support Needs</td>
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1. Students can take the Resident Pathway OR the Intern Pathway to fulfill their Field Experience requirement.

Course is taken twice; see advisor.

Master of Arts in Special Education Teaching (Extensive Support Needs) with Multiple Subject

Program Description

The MA in Special Education Teaching (Extensive Support Needs) with Multiple Subjects blends a teaching credential program with a Master of Arts in Teaching. The MAT program focuses on inquiry-based education which includes hands-on instruction with problem-based learning and issues-centered curriculum and a focus on reflection during the teaching
and research process. The program foundation rests in social justice and equity in education for all children and youth, including those with disabilities, and their families.

The Education Specialist Extensive Support Needs Teaching Credential authorizes the holder to provide educational services to students with extensive support needs in Grades K-12, and up to the age of 21. This credential embeds the English Learner Authorization (ELA) and Autism Spectrum Disorder (ASD) Authorization, which prepare candidates to work with second language learners and students with autism spectrum disorder, respectively. Additionally, teacher candidates may choose to apply to be an intern during the course of their program. The Multiple Subjects teaching credential authorizes the holder to teach all subjects in a self-contained classroom, such as the classrooms in most elementary schools.

The ESN Teaching Credential provides candidates with applied experiences through coursework which is competency based, connecting theory to practice. Teacher candidates have supervised field experiences every semester in which they work closely with mentor teachers to develop individualized program plans for students; conduct assessments and develop instructional plans; design modifications and adaptations for participation in the core curriculum; collaborate with general education teachers, and related service providers; and engage their students’ family members in the educational process. Placements are carefully planned in order to make sure candidates experience a wide range of student abilities and challenges as well as a range of age groups. The teacher preparation coursework focuses on preparing effective teachers for working with diverse student populations with an emphasis on preparing socially just teachers and leaders for systems change, committed to equity and inclusion in culturally and linguistically diverse schools and communities.

Upon completion of the Extensive Support Needs and Multiple Subjects Credential coursework, program candidates may complete an additional sequence of four Master of Arts in Teaching (MAT) courses (with thesis) for a total of 15 units, if they desire to complete the MAT after finishing both credentials. Throughout the MAT program, candidates will learn how to critically examine evidence-based practices, policy issues, and current research on teaching and learning in the field of special education. Candidates will be expected to apply analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students, including English Learners and children and youth with disabilities. Candidates also will conduct original teacher action research using practice-based methods in diverse educational settings. The materials and associated activities presented in the MAT coursework are highly integrated to support candidates with successful completion of the Master of Arts in Teaching degree at the end of the program.

Admission Requirements

The California Commission on Teacher Credentialing (CTC) establishes admissions requirements for all preliminary teaching credential programs and the CSU Chancellor’s Office further specifies admissions requirements. The requirements listed below may be subject to change, based on actions of these two governing bodies. Interested applicants are encouraged to contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639, or an advisor in the Student Success Center (https://www.csus.edu/college/education/student-support/), for the most current admissions requirements.

Program Admission Requirements

1. A Baccalaureate degree is required for admission to the MAT.
2. Minimum of 45 hours of experience related to working with children or youth in a K-12 classroom or equivalent is recommended.
3. Submit two references: one from a person who has observed the applicant’s academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. NOTE: References from family members will not be accepted.
4. Submit a graduate writing sample.
5. Satisfy writing proficiency by meeting the Basic Skills Requirement.
6. Satisfy the Basic Skills Requirement. For more detailed information, visit the CTC website (https://www.ctc.ca.gov/credentials/leaflets/cl667.pdf). Example of ways to satisfy Basic Skills Competence include:
   a. Pass the California Basic Educational Skills Test (CBEST)
   b. Pass the CSET Multiple Subjects plus Writing Skills examination
   c. Pass the CSU Early Assessment Program (EAP) or the CSU Placement Examinations
   d. Achieve qualifying score on the SAT or ACT (see the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/))
   e. Score a 3 or above on specific AP examinations (see the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/))
   f. Earn a grade of "B" or better in specific college or university courses as detailed on the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/)
   g. Mix and Match as detailed on the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/)
7. Satisfy the Subject Matter Competence requirement for a Multiple Subjects teacher. For more detailed information, visit the CTC website. Examples of ways to demonstrate subject matter competence:
   a. Take and pass all subtests of any CSET examination (e.g. the Multiple Subject/Elementary California Subject Exam for Teachers-CSET),
   b. Complete a subject matter program,
   c. Complete an approved undergraduate major as detailed on the CTC website,
   d. Complete coursework with a grade of C- or better that meets the required subject matter domains as listed on the CTC website,
   e. Mix and Match as detailed on the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/)
8. Grade Point Average (GPA) of at least 2.5 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from official transcripts from every college/university attended.
10. Certificate of Clearance (COC) security clearance issued by the Commission on Teacher Credentialing: evidence of submitting the COC application and fingerprints must be submitted at application.

11. Participate in the Mandatory Interview.

Detailed descriptions of all admissions requirements are contained in the program’s application instructions, which are available on the Teaching Credentials Application website (https://www.csus.edu/college/education/teaching-credentials/apply.html).

Applications Required

CSU Graduate School Application for the University
Sacramento State graduating seniors, Sacramento State students completing a master's degree or second bachelor's degree, and applicants not currently attending Sacramento State MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line: Cal State Apply. (https://www2.calstate.edu/apply/)

Supplemental Application
A separate Supplemental Application is only required for current undergraduate Sacramento State students who are applying to take first semester program coursework while still classified as an undergraduate. The Supplemental Application link is posted on the Teaching Credential website in October of the year prior to admission.

Additional Information

Certificate of Clearance (COC/Fingerprint Clearance)
All applicants must submit verification of having been issued a security clearance by the Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential or a valid Multiple or Single Subject credential.

NOTE: If you answered “YES” to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (https://www.ctc.ca.gov/educator-discipline/self-reporting.html) for instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional documentation to CTC, the processing of your clearance application can take SIX MONTHS or longer. This means you may not be eligible to start the program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Verification of Bachelor’s Degree
All applicants must obtain a bachelor’s degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as “Degree(s) Awarded” with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (https://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation
Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees, and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation. For additional information on foreign transcript evaluations please visit the CTC website (https://www.ctc.ca.gov/credentials/leaflets/cl635.pdf) and the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/future-students/applicants-with-foreign-documents.html).

Verification of completing the United States Constitution Requirement
California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a “C” or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement. More information can be found by contacting pre-credential advisors in the College of Education Student Success Center (https://www.csus.edu/college/education/student-support/).

Additional Information for All Admitted Program Candidates: Credential Coursework

Continued Enrollment: Continued enrollment in the MA in Teaching with Education Specialist Extensive Support Needs with Multiple Subject Teaching Credential Program is contingent upon candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of "D", "F", and "NC" (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee. Any student on academic probation is subject to automatic disqualification unless approved by the Credential Appeals Committee to continue.

Grade Requirement for the ESN Credential: Any grade below C- in a required credential course must be retaken in order to meet credential requirements.

Physical Education Methods Requirement: Before earning the Multiple Subject Credential, candidates must complete KINS 172 or the equivalent workshop.

Delays: Candidates who have to delay progress in the MA in Teaching with Education Specialist Extensive Support Needs with Multiple Subject Teaching Credential Program will file a “Program Delay Petition” in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Candidates must return and complete the program within the seven-year limit for graduate programs.
Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation, except for those policies set by the Commission on Teacher Credentialing or state education code. Appeals petitions and assistance are available in the Teaching Credentials Office.

Licensure
Admission into programs leading to licensure does not guarantee that students will obtain a license. Licensure requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure requirements.

Additional Information for All Admitted Program Candidates: MAT Degree

Grade Requirement for the Master’s Degree: Courses required for the Master of Arts in Teaching degree require a grade of B- or better in order to be used to satisfy the requirements of the Master’s degree. If a student receives below a B- in any course required for the Master’s degree, the course must be successfully repeated with a grade of B- or better in order to satisfy the requirements of the degree program (grades of C- or better will satisfy the requirements for the teaching credential).

Delays: Candidates who have to delay progress in the MA in Teaching with Education Specialist Extensive Support Needs with Multiple Subject Teaching Credential Program will file a "Program Delay Petition" in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Candidates must return and complete the program within the seven-year limit for graduate programs.

Advancement to Candidacy Procedures: Each student working toward a Master of Arts in Teaching degree must file an application for Advancement to Candidacy for the degree. The purpose of this application is to provide certification to the Office of Graduate Studies that the student will complete the necessary requirements and coursework for the Master's degree. The student must be advanced to candidacy the semester prior to enrolling in EDSP 500.

This procedure should begin as soon as the classified graduate student has:

- Completed 21 units in the graduate program with a minimum 3.0 GPA; and
- Met the Graduate Writing Requirement through completion of the Graduate Writing Intensive (GWI) course, EDSP 281, with a B grade or better.

Advancement to Candidacy forms are available online through the Office of Graduate Studies. The student should complete the form in consultation with the MAT Program Coordinator. The form must be submitted online with the Office of Graduate Studies for approval.

Culminating Experience Enrollment: Before enrolling in EDSP 500, the student must submit a reservation form for a Culminating Experience to the MAT Program Coordinator.

Continuous Enrollment in the Master's Degree: Enrollment in EDSP 500 for the culminating experience is for one semester. The expectation is that students will complete the culminating experience during EDSP 500. Up to three semesters of continuous enrollment (EDSP 599) are allowed if the Culminating Experience advisor deems a reasonable amount of progress has been made and assigns a grade of "RP" for EDSP 500. If students fail to make adequate progress while enrolled in EDSP 500 and there are no mitigating circumstances (e.g., illness), a grade of "no credit" is given, and the student must re-enroll in EDSP 500.

Bilingual Authorization (BA)
The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all program candidates with oral and written fluency as well as cultural/historical knowledge of the target group (currently approved languages include Spanish or Hmong; other languages are in the process of being approved). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator (https://www.csus.edu/college/education/student-support/equity-office.html) for an advising appointment to review your transcripts.

Program Requirements: Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EDSP 281</td>
<td>Critical Issues in Special Education Research and Practice</td>
<td>6</td>
</tr>
<tr>
<td>EDSP 282</td>
<td>Methods in Research Design and Practice with Diverse Children, Youth, and Families</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 283</td>
<td>Critical Analysis and Interpretation of Data within Diverse School and Community Contexts</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 209</td>
<td>Developing Augmentative &amp; Alternative Communication Systems: Assessment and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 500</td>
<td>Classroom Inquiry/Action Research Portfolio-Culminating Experience</td>
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Extensive Support Needs Concentration (11 Units)

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>EDSP 206</td>
<td>Collaborative Program Planning with Families, Professionals, and Communities</td>
<td>3</td>
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<tr>
<td>EDSP 208</td>
<td>Positive Behavioral Supports and Evidence-Based Practices for Youth with Autism and Related Issues</td>
<td>2</td>
</tr>
<tr>
<td>EDSP 218</td>
<td>Advanced program planning/instruction: Students with Extensive Support Needs/Multiple Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 292</td>
<td>Teaching English Learners with Disabilities</td>
<td>3</td>
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Total Units: 29

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>EDSP 119</td>
<td>Legal and Social Foundations of Inclusive Education</td>
<td>3</td>
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Field Experience Courses - Intern Pathway (36 Units)

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<thead>
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</thead>
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<tr>
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<td>Field Experience I: Students with Extensive Support Needs</td>
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</tr>
<tr>
<td>EDSP 413</td>
<td>Field Experience I: Students with Extensive Support Needs</td>
<td>5</td>
</tr>
<tr>
<td>EDSP 420B</td>
<td>Multiple Subject Student Teaching</td>
<td>8</td>
</tr>
<tr>
<td>EDSP 420B</td>
<td>Intern Teaching for Elementary Teachers</td>
<td>8</td>
</tr>
<tr>
<td>EDSP 421</td>
<td>Intern Teaching I: Students with Extensive Support Needs</td>
<td>9</td>
</tr>
<tr>
<td>EDSP 422</td>
<td>Advanced Intern Teaching: Students with Extensive Support Needs</td>
<td>9</td>
</tr>
</tbody>
</table>

1 Students can take the Resident Pathway OR the Intern Pathway to fulfill their Field Experience requirement.
2 Course is taken twice; see advisor.

Master of Arts in Special Education Teaching (Mild to Moderate Support Needs)

Program Description

The MA in Teaching (Education Specialist Mild to Moderate Support Needs Credential) blends a teaching credential program with a Master of Arts in Teaching. The MAT program focus is based on teacher candidates becoming leaders for systems change, committed to inclusive practices, social justice, advocacy, collaboration, and evidence-based practices with a focus on reflection during the teaching and research process.

The Education Specialist Mild to Moderate Support Needs Teaching Credential authorizes the holder to provide educational services to students with support needs in Grades K-12, and up to the age of 21. This credential embeds the English Learner Authorization (ELA) and Autism Spectrum Disorder (ASD) Authorization, which prepares candidates to work with second language learners and students with autism spectrum disorder, respectively. Additionally, teacher candidates may choose to apply to be an intern during the course of their program.

The MMSN Teaching Credential provides candidates with focused, rigorous coursework and structured, supervised field experiences throughout the program. Candidates acquire the knowledge, skills, and dispositions that will equip them to work within the continuum of service delivery models, including resource specialist setting, special day classrooms, inclusive general education classrooms, charter schools, and non-public school sites.

The collaborative relationship with school districts provides our program the opportunity to place candidates completing their fieldwork in different classroom settings, with various grade/age levels, allowing the candidates multiple opportunities to work with all students including culturally and linguistically diverse students with a wide range of abilities and challenges.

Upon completion of the MMSN Teaching Credential coursework (50-52 units), program candidates may complete an additional sequence of four master’s courses (15 additional units). Throughout the MAT program, candidates will learn how to critically examine evidence-based practices, policy issues, and current research on teaching and learning in the field of special education. Candidates will be expected to apply analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students, including English Learners and children and youth with disabilities. Candidates also will conduct original teacher action research using practice-based methods in diverse educational settings. The materials and associated activities presented in the MAT coursework are highly integrated to support candidates with successful completion of the Master of Arts in Teaching degree at the end of the program.

Admission Requirements

The California Commission on Teacher Credentialing (CTC) establishes admissions requirements for all preliminary teaching credential programs and the CSU Chancellor’s Office further specifies admissions
requirements. The requirements listed below may be subject to change, based on actions of these two governing bodies. Interested applicants are encouraged to contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639, an advisor in the Student Success Center (https://www.csus.edu/college/education/student-support/), or the MAT with Credential program website (https://www.csus.edu/college/education/teaching-credentials/apply.html) for the most current admissions requirements.

Program Admission Requirements

1. A Baccalaureate degree is required for admission to the MAT.
2. Minimum of 45 hours of experience working with children or youth in a preK-12 classroom or equivalent is recommended.
3. Submit two references: one from a person who has observed the applicant’s academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. NOTE: References from family members will not be accepted.
4. Submit a graduate writing sample.
5. Satisfy writing proficiency by meeting the Basic Skills Requirement.
6. Satisfy the Basic Skills Requirement. For more detailed information, visit the CTC website (https://www.ctc.ca.gov/credentials/leaflets/cl667.pdf). Example of ways to satisfy Basic Skills Competence include:
   a. Pass the California Basic Educational Skills Test (CBEST)
   b. Pass the CSET Multiple Subjects plus Writing Skills examination
   c. Pass the CSU Early Assessment Program (EAP) or the CSU Placement Examinations
   d. Achieve qualifying score on the SAT or ACT (see the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-cl667/))
   e. Score a 3 or above on specific AP examinations (see the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-cl667/))
   f. Earn a grade of "B" or better in specific college or university courses as detailed on the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-cl667/)
   g. Mix and Match as detailed on the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-cl667/).
7. Satisfy the Subject Matter Competence requirement. For more detailed information, visit the CTC website. Examples of ways to demonstrate subject matter competence:
   a. Take and pass all subtests of any CSET examination (e.g. the Multiple Subject/Elementary California Subject Exam for Teachers-CSET)
   b. Complete a subject matter program,
   c. Complete an approved undergraduate major as detailed on the CTC website,
   d. Complete coursework with a grade of C- or better that meets the required subject matter domains as listed on the CTC website,
   e. Mix and Match as detailed on the CTC website (https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-cl667/).
8. Grade Point Average (GPA) of at least 2.5 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from official transcripts from every college/university attended.
9. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, and PUBH 136. List of equivalent coursework is located on the Teaching Credentials website (https://www.csus.edu/college/education/teaching-credentials/apply.html).
10. Certificate of Clearance (COC) security clearance issued by the Commission on Teacher Credentialing: evidence of submitting the COC application and fingerprints must be submitted at application.
11. Participate in a Mandatory Interview.

Detailed descriptions of all admissions requirements are contained in the program’s application instructions, which are available on the Teaching Credentials Application website (https://www.csus.edu/college/education/teaching-credentials/apply.html).

Applications Required

CSU Graduate School Application for the University
Sacramento State graduating seniors, Sacramento State students completing a master’s degree or second bachelor’s degree, and applicants not currently attending Sacramento State MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line: Cal State Apply. (https://www2.calstate.edu/apply/)

Supplemental Application
A separate Supplemental Application is only required for current undergraduate Sacramento State students who are applying to take first semester program coursework while still classified as an undergraduate. Complete supplemental applications and all supporting documents must be submitted to Teaching Credentials by February 1. The link is posted on the Teaching Credential website in October of the year prior to admission.

Additional Information

Certificate of Clearance (COC/Fingerprint Clearance)
All applicants must submit verification of having been issued a security clearance by the Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential or a valid Multiple or Single Subject credential.

NOTE: If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (https://www.ctc.ca.gov/educator-discipline/self-reporting.html) for instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional documentation to CTC,
the processing of your clearance application can take SIX MONTHS or longer. This means you may not be eligible to start the program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Verification of Bachelor's Degree
All applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the degree date was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (https://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation
Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees, and other relevant documents prior to applying for the program. This evaluation is required by the California Commission on Teacher Credentialing (CTC) and the university. It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation. For additional information on foreign transcript evaluations please visit the CTC website (https://www.ctc.ca.gov/credentials/leaflets/cl635.pdf) and the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/future-students/applicants-with-foreign-documents.html).

Verification of completing the United States Constitution Requirement
California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement. More information can be found by contacting pre-credential advisors in the College of Education Student Success Center (https://www.csus.edu/college/education/student-support/).

Minimum Units and Grade Requirement for the MAT Degree
Units required for the MAT degree: 30

Minimum Cumulative GPA for the MAT degree: 3.0

Additional Information for All Admitted Program Candidates: Credential Coursework
Continued Enrollment: Continued enrollment in the Master of Arts in Teaching with Education Specialist Mild to Moderate Support Needs Teaching Credential Program is contingent upon candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of "D", "F", and "NC" (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee. Any student on academic probation is subject to automatic disqualification unless approved by the Credential Appeals Committee to continue.

Grade Requirement for the Mild to Moderate Support Needs Credential: Any grade below C- in a course that meets a credential requirement must be retaken in order to meet credential requirements.

Delays: Candidates who have to delay progress in the Master of Arts in Teaching with Education Specialist Mild to Moderate Support Needs Teaching Credential Program will file a "Program Delay Petition" in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Candidates must return and complete the program within the seven-year limit for graduate programs.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation, except for those policies set by the Commission on Teacher Credentialing or state education code. Appeals petitions and assistance are available in the Teaching Credentials Office.

Licensure
Admission into programs leading to licensure does not guarantee that students will obtain a license. Licensure requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure requirements.

Additional Information for All Admitted Program Candidates: MAT Degree
Grade Requirement for the Master's Degree: Courses required for the Master of Arts in Teaching degree require a grade of B- or better in order to be used to satisfy the requirements of the Master's degree. If a student receives below a B- in any course required for the Master's degree, the course must be successfully repeated with a grade of B- or better in order to satisfy the requirements of the degree program (grades of C- or better will satisfy the requirements for the teaching credential).

Delays: Candidates who have to delay progress in the Master of Arts in Teaching program will file a "Program Delay Petition" in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Candidates must return and complete the program within the seven-year limit for graduate programs.

Advancement to Candidacy Procedures: Each student working toward a Master of Arts in Teaching degree must file an application for Advancement to Candidacy for the degree. The purpose of this application is to provide certification to the Office of Graduate Studies that the student will complete the necessary requirements and coursework for the Master's degree. The student must be advanced to candidacy the semester prior to enrolling in EDSP 500.

This procedure should begin as soon as the classified graduate student has:
Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all program candidates with oral and written fluency as well as cultural/historical knowledge of the target group (currently approved languages include Spanish or Hmong; other languages are in the process of being approved). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator (https://www.csus.edu/college/education/student-support/equity-office.html) for an advising appointment to review your transcripts.

Program Requirements

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<td>Methods in Research Design and Practice with Diverse Children, Youth, and Families</td>
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<td>Critical Analysis and Interpretation of Data within Diverse School and Community Contexts</td>
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<td>Assessment and Evaluation for Students with Mild to Moderate Support Needs</td>
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<td>Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities</td>
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<td>Assistive and Instructional Technologies for Students with Mild/Moderate Disabilities</td>
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<td>Transition Strategies for Students with Mild to Moderate Support Needs</td>
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<td>Mild to Moderate Support Needs Field Experience</td>
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<tr>
<td>EDSP 472</td>
<td>Mild to Moderate Support Needs Student Teaching may be taken twice</td>
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Master of Arts in Special Education Teaching (Mild to Moderate Support Needs) with Multiple Subject

Program Description

Master of Arts in Teaching with Preliminary Education Specialist Mild to Moderate Support Needs Teaching Credential (Multiple Subject)

The MA in Teaching with Education Specialist Mild to Moderate Teaching Credential with Multiple Subject Teaching Credential program blends a teacher preparation program (with both the Mild to Moderate Support Needs Special Education Teaching Credential and the Multiple Subject Teaching Credential) with a Master of Arts in Teaching (MAT). The MAT program focus is on teacher candidates becoming leaders for systems change, committed to inclusive practices, social justice, advocacy, collaboration, and evidence-based practices with a focus on reflection during the teaching and research process.

The Education Specialist Mild to Moderate Support Needs Teaching Credential authorizes the holder to provide educational services to students with support needs in Grades K-12, and up to the age of 21. This credential embeds the English Learner Authorization (ELA) and Autism Spectrum Disorder (ASD) Authorization, which prepares candidates to work with second language learners and students with autism spectrum
disorder, respectively. Additionally, teacher candidates may choose to apply to be an intern during the course of their program. The Multiple Subject Teaching Credential authorizes the holder to teach all subjects in a self-contained classroom, such as the classrooms in most elementary schools.

The MMSN Teaching Credential provides candidates with focused, rigorous coursework and structured, supervised field experiences throughout the program. Candidates acquire the knowledge, skills, and dispositions that will equip them to work within the continuum of service delivery models, including resource specialist setting, special day classrooms, inclusive general education classrooms, charter schools, and non-public school sites.

The collaborative relationship with school districts provides our program the opportunity to place candidates completing their fieldwork in different classroom settings, with various grade/age levels, allowing the candidates multiple opportunities to work with all students including culturally and linguistically diverse students with a wide range of abilities and challenges.

Upon completion of the MMSN and Multiple Subject Teaching Credential coursework, program candidates may complete an additional sequence of four master's courses for a total of 15 additional units, if they want to complete the MAT after finishing the credentials. Throughout the MAT program, candidates will learn how to critically examine evidence-based practices, policy issues, and current research on teaching and learning in the field of special education. Candidates will be expected to apply analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students, including English Learners and children and youth with disabilities. Candidates also will conduct original teacher action research using practice-based methods in diverse educational settings. The materials and associated activities presented in the MAT coursework are highly integrated to support candidates with successful completion of the Master of Arts in Teaching degree at the end of the program.

The California Commission on Teacher Credentialing (CTC) establishes admissions requirements for all preliminary teaching credential programs and the CSU Chancellor’s Office further specifies admissions requirements. The requirements listed below may be subject to change, based on actions of these two governing bodies. Interested applicants are encouraged to contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639, an advisor in the Student Success Center (https://www.csus.edu/college/education/student-support/), or the MAT with Credential program website (https://www.csus.edu/college/education/teaching-credentials/apply.html) for the most current admissions requirements.

**Program Admission Requirements**

1. A Baccalaureate degree is required for admission to the MAT.

2. Minimum of 45 hours of experience working with children or youth in a preK-12 classroom or equivalent is recommended.

3. Submit two references: one from a person who has observed the applicant’s academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. **NOTE:** References from family members will not be accepted.

4. Submit a graduate writing sample.

5. Satisfy writing proficiency by meeting the Basic Skills Requirement.

6. Satisfy the Basic Skills Requirement. For more detailed information, visit the CTC website (https://www.ctc.ca.gov/). Example of ways to satisfy Basic Skills Competence include:
   a. Pass the California Basic Educational Skills Test (CBEST)
   b. Pass the CSET Multiple Subjects plus Writing Skills examination
   c. Pass the CSU Early Assessment Program (EAP) or the CSU Placement Examinations
   d. Achieve qualifying score on the SAT or ACT (see the CTC website (https://www.ctc.ca.gov/))
   e. Score a 3 or above on specific AP examinations (see the CTC website (https://www.ctc.ca.gov/))
   f. Earn a grade of "B-" or better in specific college or university courses as detailed on the CTC website (https://www.ctc.ca.gov/).
   g. Mix and Match as detailed on the CTC website (https://www.ctc.ca.gov/).

7. Satisfy the Subject Matter Competence Requirement. For more detailed information, visit the CTC website (https://www.ctc.ca.gov/). Examples of ways to demonstrate subject matter competence:
   a. Take and pass all subtests of any CSET examination (e.g. the Multiple Subject/Elementary California Subject Exam for Teachers-CSET),
   b. Complete a subject matter program,
   c. Complete an approved undergraduate major as detailed on the CTC website,
   d. Complete coursework with a grade of C- or better that meets the required subject matter domains as listed on the CTC website,
   e. Mix and Match as detailed on the CTC website (https://www.ctc.ca.gov/).

8. Grade Point Average (GPA) of at least 2.5 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from official transcripts from every college/university attended.

9. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, and PUBH 136. List of equivalent coursework is located on the Teaching Credentials website (https://www.csus.edu/college/education/teaching-credentials/apply.html).

10. Certificate of Clearance (COC) security clearance issued by the Commission on Teacher Credentialing; evidence of submitting the COC application and fingerprints must be submitted at application.

11. Participate in a Mandatory Interview.

Detailed descriptions of all admissions requirements are contained in the program's application instructions, which are available on the Teaching Credentials Application website (https://www.ctc.ca.gov/).
Applications Required
CSU Graduate School Application for the University
Sacramento State graduating seniors, Sacramento State students completing a master’s degree or second bachelor’s degree, and applicants not currently attending Sacramento State MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line: Cal State Apply. (https://www2.calstate.edu/apply/)

Supplemental Application
A separate Supplemental Application is only required for current undergraduate Sacramento State students who are applying to take first semester program coursework while still classified as an undergraduate. Complete supplemental applications and all supporting documents must be submitted to Teaching Credentials by February 1. The link is posted on the Teaching Credential website in October of the year prior to admission.

Additional Information
Certificate of Clearance (COC/Fingerprint Clearance)
All applicants must submit verification of having been issued a security clearance by the Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

EXCEPTION — it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential or a valid Multiple or Single Subject credential.

NOTE: If you answered “YES” to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (https://www.ctc.ca.gov/) for instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional documentation to CTC, the processing of your clearance application can take SIX MONTHS or longer. This means you may not be eligible to start the program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Verification of Bachelor’s Degree
All applicants must obtain a bachelor’s degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as “Degree(s) Awarded” with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (https://www.ctc.ca.gov/).

Foreign Transcript Evaluation
Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees, and other relevant documents prior to applying for the program. This evaluation is required by the California Commission on Teacher Credentialing (CTC) and the university. It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation. For additional information on foreign transcript evaluations please visit the CTC website (https://www.ctc.ca.gov/) and the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/future-students/applicants-with-foreign-documents.html).

Verification of completing the United States Constitution Requirement
California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a “C” or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement. More information can be found by contacting pre-credential advisors in the College of Education Student Success Center (https://www.csus.edu/college/education/student-support/).

Minimum Units and Grade Requirement for the MAT Degree
Units required for the MAT degree: 30
Minimum Cumulative GPA for the MAT degree: 3.0

Additional Information for All Admitted Program Candidates: Credential Coursework
Continued Enrollment: Continued enrollment in the Master of Arts in Teaching with Education Specialist Mild to Moderate Support Needs Teaching Credential Program (Multiple Subject) is contingent upon candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of "D", "F", and "NC" (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee. Any student on academic probation is subject to automatic disqualification unless approved by the Credential Appeals Committee to continue.

Grade Requirement for the Mild to Moderate Support Needs (Multiple Subject) Credential: Any grade below C- in a course that meets a credential requirement must be retaken in order to meet credential requirements.

Physical Education Methods Requirement: Before earning the Multiple Subject Credential, candidates must complete KINS 172 or the equivalent workshop.

Delays: Candidates who have to delay progress in the Master of Arts in Teaching with Education Specialist Mild to Moderate Support Needs Teaching Credential (Multiple Subject) Program will file a "Program Delay Petition" in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Candidates must return and complete the program within the seven-year limit for graduate programs.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation, except for those policies set by the Commission on Teacher Credentialing or state education code. Appeals petitions and assistance are available in the Teaching Credentials Office.
Additional Information for All Admitted Program Candidates: MAT Degree

Grade Requirement for the Master's Degree: Courses required for the Master of Arts in Teaching degree require a grade of B- or better in order to be used to satisfy the requirements of the Master's degree. If a student receives below a B- in any course required for the Master's degree, the course must be successfully repeated with a grade of B- or better in order to satisfy the requirements of the degree program (grades of C- or better will satisfy the requirements for the teaching credential).

Delays: Candidates who have to delay progress in the Master of Arts in Teaching program will file a "Program Delay Petition" in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Candidates must return and complete the program within the seven-year limit for graduate programs.

Advancement to Candidacy Procedures: Each student working toward a Master of Arts in Teaching degree must file an application for Advancement to Candidacy for the degree. The purpose of this application is to provide certification to the Office of Graduate Studies that the student will complete the necessary requirements and coursework for the Master's degree. The student must be advanced to candidacy the semester prior to enrolling in EDSP 500.

This procedure should begin as soon as the classified graduate student has:
- Completed 21 units in the graduate program with a minimum 3.0 GPA; and
- Met the Graduate Writing Requirement through completion of the Graduate Writing Intensive (GWI) course, EDSP 281, with a B grade or better.

Advancement to Candidacy forms are available online through the Office of Graduate Studies. The student should complete the form in consultation with the MAT Program Coordinator. The form must be submitted online with the Office of Graduate Studies for approval.

Culminating Experience Enrollment: Before enrolling in EDSP 500, the student must submit a reservation form for a Culminating Experience to the MAT Program Coordinator.

Continuous Enrollment in the Master's Degree: Enrollment in EDSP 500 for the culminating experience is for one semester. The expectation is that students will complete the culminating experience during EDSP 500. Up to three semesters of continuous enrollment (EDSP 599) are allowed if the Culminating Experience advisor deems a reasonable amount of progress has been made and assigns a grade of "RP" for EDSP 500. If students fail to make adequate progress while enrolled in EDSP 500 and there are no mitigating circumstances (e.g., illness), a grade of "no credit" is given, and the student must re-enroll in EDSP 500.

Bilingual Authorization (BA)
The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all program candidates with oral and written fluency as well as cultural/historical knowledge of the target group (currently approved languages include Spanish or Hmong; other languages are in the process of being approved). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator (https://www.csus.edu/college/education/student-support/equity-office.html) for an advising appointment to review your transcripts.

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<td>EDMS 315</td>
<td>History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom</td>
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Additional courses for the Multiple Subject Credential (15 Units)

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Master of Arts in Teaching (Multiple Subject)

Program Description

The MA in Teaching (Multiple Subject) blends a teacher preparation program with a Master of Arts in Teaching (MAT). The Multiple Subject Teaching Credential authorizes the holder to teach all subjects in a self-contained classroom, such as the classrooms in most elementary schools. This credential embeds the English Learner Authorization (ELA), which prepares candidates to work with second language learners.

The teacher preparation coursework focuses on preparing effective teachers for urban classrooms. Becoming an effective teacher for an urban setting, including a foundation in social justice and equity, is the focus of all activities, tasks and learning. The candidates complete a program that requires full-time student status, with field experience and student teaching requirements in Sacramento Area districts as well as full-time coursework requirements. Upon completion of the Multiple Subject Teaching Credential coursework, program candidates will complete an additional sequence of five Master of Arts in Teaching (MAT) courses.

Throughout the MAT program candidates will learn how to critically examine the sociocultural and sociopolitical contexts related to the broad fields of educational research and schooling. Candidates will be expected to apply such analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students including English Learners and students with disabilities. Candidates will also create an original Teacher Action Research Inquiry Project using practice-based methods in diverse educational settings. The materials and associated activities presented in the MAT coursework are highly integrated to support students with successful completion of the Master of Arts in Teaching degree at the end of the program.

The program is hybrid: blend of in-person courses and online courses.

Master of Arts in Teaching (Multiple Subject)

The California Commission on Teacher Credentialing (CTC) establishes admissions requirements for all preliminary teaching credential programs and the CSU Chancellor’s Office further specifies admissions requirements. The requirements listed below may be subject to change, based on actions of these two governing bodies. Interested applicants are encouraged to contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639, an advisor in the program, or the MAT with Credential program website (https://www.csus.edu/college/education/teaching-credentials/) for the most current admissions requirements.

Program Admission Requirements

1. A Baccalaureate degree is required for admission to the MAT degree program.
2. Minimum of 45 hours of experience related to working with children or youth in a K-12 classroom or equivalent recommended.
3. Submit two references: one from a person who has observed the applicant’s academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. NOTE: References from family members will not be accepted.
4. Submit a graduate writing sample.
5. Satisfy writing proficiency by meeting the Basic Skills Requirement.
6. Satisfy the Basic Skills Requirement. For more detailed information, visit the CTC website (https://www.ctc.ca.gov/). Example of ways to satisfy Basic Skills Requirement include:
   a. Pass the California Basic Educational Skills Test (CBEST)
   b. Pass the CSET Multiple Subjects plus Writing Skills examination
   c. Pass the CSU Early Assessment Program (EAP) or the CSU Placement Examinations
   d. Achieve qualifying score on the SAT or ACT (see the CTC website (https://www.ctc.ca.gov/))
   e. Score a 3 or above on specific AP examinations (see the CTC website (https://www.ctc.ca.gov/))
   f. Earn a grade of "B" or better in specific college or university courses as detailed on the CTC website (https://www.ctc.ca.gov/).
   g. Applicants can "Mix and Match" options, as detailed on the CTC website (https://www.ctc.ca.gov/).
7. Satisfy the Subject Matter Competence requirement. For more detailed information, visit the CTC website. Examples of ways to demonstrate subject matter competence: take and pass all subtests of any Multiple Subject CSET examination, complete a subject matter program, or complete an approved undergraduate major as detailed on the CTC website.
8. Grade Point Average (GPA) of at least 2.5 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from official transcripts from every college/university attended.
10. Certificate of Clearance (COC) security clearance issued by the Commission on Teacher Credentialing: evidence of submitting the COC application and fingerprints must be submitted at application.
11. Participate in a Mandatory Interview.

Detailed descriptions of all admissions requirements are contained in the program's application instructions, which are available on the Teaching Credentials Application website (https://www.csus.edu/college/education/teaching-credentials/apply.html).

Applications Required

CSU Graduate School Application for the University
Sacramento State graduating seniors, Sacramento State students completing a master's degree or second bachelor's degree, and applicants not currently attending Sacramento State MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line: Cal State Apply. (https://www2.calstate.edu/apply/)
Supplemental Application
A separate Supplemental Application is only required for current undergraduate Sacramento State students who are applying to take first semester program coursework while still classified as an undergraduate. The application link is posted on the Teaching Credential website in October of the year prior to admission.

Additional Information
Certificate of Clearance (COC/Fingerprint Clearance)
All applicants must submit verification of having been issued a security clearance by the Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential or a valid Multiple or Single Subject credential.

NOTE: If you answered “YES” to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (https://www.ctc.ca.gov/) for instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional documentation to CTC, the processing of your clearance application can take SIX MONTHS or longer. This means you may not be eligible to start the program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Verification of Bachelor's Degree
All applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (https://www.ctc.ca.gov/).

Foreign Transcript Evaluation
Individuals who have completed college or university coursework at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees, and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation. For additional information on foreign transcript evaluations please visit the CTC website (https://www.ctc.ca.gov/) and the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/future-students/applicants-with-foreign-documents.html).

Verification of completing the United States Constitution Requirement
California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a “C” or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement. More information can be found by contacting pre-credential advisors in the College of Education Student Success Center (https://www.csus.edu/college/education/student-support/).

Minimum Units and Grade Requirement for the MAT Degree
Units required for the MAT degree: 30
Minimum Cumulative GPA for the MAT degree: 3.0

Additional Information for All Admitted Program Candidates: Credential Coursework
Continued Enrollment: Continued enrollment in the MA in Teaching with Multiple Subject Teaching Credential Program is contingent upon candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of "D", "F", and "NC" (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee. Any student on academic probation is subject to automatic disqualification unless approved by the Credential Appeals Committee to continue.

Grade Requirement for the Credential: Any grade below C- in a required credential course must be retaken in order to meet credential requirements.

Physical Education Methods Requirement: Before earning the Multiple Subject Credential, candidates must complete KINS 172 or the equivalent workshop.

Delays: Candidates who have to delay progress in the MA in Teaching with Multiple Subject Teaching Credential Program will file a "Program Delay Petition" in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Candidates must return and complete the program within the seven-year limit for graduate programs.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation, except for those policies set by the Commission on Teacher Credentialing or state education code. Appeals petitions and assistance are available in the Teaching Credentials Office.

Licensure
Admission into programs leading to licensure does not guarantee that students will obtain a license. Licensure requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure requirements.
Additional Information for All Admitted Program Candidates: MAT Degree

Grade Requirement for the Master's Degree: Courses required for the Master’s Degree require a grade of B or better except for the following exception: up to 6 units or 2 courses (whichever is less) may count for the Master’s degree with a grade of C or better. If a student receives below a C in any course required for the Master’s degree beyond the exception outlined above, the course must be successfully repeated with a grade of B or better in order to satisfy the requirements of the degree program (grades of C- or better will satisfy the requirements for the teaching credential).

Delays: Candidates who have to delay progress in the MA in Teaching with Multiple Subject Teaching Credential Program will file a “Program Delay Petition” in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Candidates must return and complete the program within the seven-year limit for graduate programs.

Advancement to Candidacy Procedures: Each student working toward a Master of Arts in Teaching degree must file an application for Advancement to Candidacy for the degree. The purpose of this application is to provide certification to the Office of Graduate Studies that the student will complete the necessary requirements and coursework for the Master’s degree. The student must be advanced to candidacy the semester prior to enrolling in EDMS 500.

This procedure should begin as soon as the classified graduate student has:

• Completed 15 units in the graduate program with a minimum 3.0 GPA;
  and
• Met the Graduate Writing Requirement through completion of the Graduate Writing Intensive (GWI) course, EDMS 241, with a B grade or better.

Advancement to Candidacy forms are available online through the Office of Graduate Studies. The student should complete the form in consultation with the MAT Program Coordinator. The form must be submitted online with the Office of Graduate Studies for approval.

Continuous Enrollment in the Master's Degree: Enrollment in EDMS 500 for the culminating experience is for one semester. The expectation is that students will complete the culminating experience during EDMS 500. Up to three semesters of continuous enrollment (EDMS 599) are allowed if the Culminating Experience advisor deems a reasonable amount of progress has been made and assigns a grade of “RP” for EDMS 500. If students fail to make adequate progress while enrolled in EDMS 500 and there are no mitigating circumstances (e.g., illness), a grade of "no credit" is given, and the student must re-enroll in EDMS 500.

Bilingual Authorization (BA)
The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all program candidates with oral and written fluency as well as cultural/historical knowledge of the target group (currently approved languages include Spanish or Hmong; other languages are in the process of being approved). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator (https://www.csud.edu/college/education/student-support/equity-office.html) for an advising appointment to review your transcripts.

Program Requirements

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<tr>
<td>EDM/EDSS 241</td>
<td>Action Research in Multicultural Settings 1</td>
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<td>Data Collection for Action Research in Multicultural Settings</td>
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1 Taken during the summer after credential coursework complete

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<td>Science Curriculum and Instruction for the Diverse K-8 Classroom</td>
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<td>Visual and Performing Arts Methods for the Diverse K-8 Classroom</td>
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<td>EDM 319A</td>
<td>Language and Literacy I for the Diverse K-8 Classroom</td>
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<td>EDM 330A</td>
<td>Educational Technology Lab I</td>
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<td>EDM 334C</td>
<td>Fundamentals of Teaching in a Diverse K-8 Classroom</td>
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<td>EDM 434A</td>
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Master of Arts in Teaching (Single Subject)

Program Description

The MA in Teaching (Single Subject) blends a teacher preparation program with a Master of Arts in Teaching (MAT). The Single Subject Teaching Credential authorizes the holder to provide instruction in approved subject areas in a departmentalized classroom. Almost all junior and senior high school teachers hold the single subject credential.

Single Subject Teaching Credentials can be obtained in the areas of Art, Biology, Chemistry, English/Language Arts, French, Geoscience, General Science, German, Health Science, Home Economics, Mathematics, Music, Physical Education, Physics, History/Social Science, and Spanish. This credential embeds the English Learner Authorization (ELA), which prepares candidates to work with second language learners. The teacher preparation coursework focuses on preparing effective teachers for urban classrooms. Becoming an effective teacher for an urban setting, including a foundation in social justice and equity, is the focus of all activities, tasks, and learning.

The candidates complete a program that requires full-time student status, with field experience and student teaching requirements in Sacramento Area districts as well as full-time coursework requirements. Upon completion of the Single Subject Teaching Credential coursework, program candidates may complete an additional sequence of five Master of Arts in Teaching (MAT) courses if they want to complete the MAT after finishing the credential. Throughout the MAT program, candidates will learn how to critically examine the sociocultural and sociopolitical contexts related to the broad fields of educational research and schooling. Candidates will be expected to apply such analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students including English Learners and students with disabilities. Candidates will also create an original Teacher Action Research Inquiry Project using practice-based methods in a diverse educational setting. The materials and associated activities presented in the MAT coursework are highly integrated to support students with successful completion of the Master of Arts in Teaching degree at the end of the program.

Career Pathways Certificate

Within the Single Subject (Secondary) Teaching Credential program coursework, candidates have the option to pursue a Career Pathways Certificate and can indicate upon admission into the program their desire to pursue the certificate. The Career Pathways Certificate prepares candidates to teach in Career Pathways; these are specialized programs in high schools designed to prepare middle and high school secondary students for both college and career in themed small learning communities connected to the 15 Major California Industries. Numerous high schools in the Sacramento Region offer Career Pathways.

Candidates admitted into the MA in Teaching with Single Subject Teaching Credential program will take the same courses as other candidates, but will enroll in the Career Pathways Linked Learning sections with designated L indicators (EDSS 365L). In addition, they will complete an additional two-unit work-based learning field experience course. At the end of the credential coursework, candidates will be recommended for a Single Subject teaching credential and will receive the Career Pathways Certificate.

The program is offered in a hybrid format: a blend of in-person courses and a limited number of online courses.

Master of Arts in Teaching (Single Subject)

The California Commission on Teacher Credentialing (CTC) establishes admissions requirements for all preliminary teaching credential programs and the CSU Chancellor’s Office further specifies admissions requirements. The requirements listed below may subject to change, based on actions of these two governing bodies. Interested applicants are encouraged to contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639, an advisor in the Student Success Center (https://www.csus.edu/college/education/student-support/), or the MAT with Credential program website (https://www.csus.edu/college/education/teaching-credentials/apply.html) for the most current admissions requirements.

Program Admission Requirements

1. A Baccalaureate degree is required for admission to the MAT degree program.
   a. Minimum of 45 hours of experience related to working with children or youth in a K-12 classroom or equivalent is recommended.
   b. Submit two references: one from a person who has observed the applicant’s academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. **NOTE:** References from family members will not be accepted.
   c. Submit a graduate writing sample.
   d. Satisfy writing proficiency by meeting the Basic Skills Requirement.
   e. Satisfy the Basic Skills Requirement. For more detailed information, visit the CTC website ([https://www.ctc.ca.gov/credentials/leaflets/clf667.pdf](https://www.ctc.ca.gov/credentials/leaflets/clf667.pdf)). Example of ways to satisfy Basic Skills Competence include:
      a. Pass the California Basic Educational Skills Test (CBEST)
      b. Pass the CSET Multiple Subjects plus Writing Skills examination
      c. Pass the CSU Early Assessment Program (EAP) or the CSU Placement Examinations
   d. Achieve qualifying score on the SAT or ACT (see the CTC website ([https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/](https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/))
   e. Score a 3 or above on specific AP examinations (see the CTC website ([https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/](https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/))
   f. Earn a grade of “B-” or better in specific college or university courses as detailed on the CTC website ([https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/](https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/))
   g. Applicants can “Mix and Match” options, as detailed on the CTC website ([https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/](https://www.ctc.ca.gov/credentials/leaflets/basic-skills-requirement-(cl-667)/)).

2. Satisfy the Subject Matter Competence requirement. For more detailed information, visit the CTC website. Examples of ways to demonstrate subject matter competence: take and pass all subtests of any Single Subject CSET examination, complete a subject matter program, or complete an approved undergraduate major as detailed on the CTC website ([https://www.ctc.ca.gov/educator-prep/subject-matter-requirements/](https://www.ctc.ca.gov/educator-prep/subject-matter-requirements/)).
7. Grade Point Average (GPA) of at least 2.5 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from official transcripts from every college/university attended.

8. Complete Credential Prerequisite

9. Certificate of Clearance (COC) security clearance issued by the Commission on Teacher Credentialing: evidence of submitting the COC application and fingerprints must be submitted at application.

10. Participate in a Mandatory Interview.

Detailed descriptions of all admissions requirements are contained in the program's application instructions, which are available on the Teaching Credentials Application website (https://www.csus.edu/college/education/teaching-credentials/apply.html).

Applications Required
CSU Graduate School Application for the University
Sacramento State graduating seniors, Sacramento State students completing a master's degree or second bachelor's degree, and applicants not currently attending Sacramento State MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line: Cal State Apply. (https://www2.calstate.edu/apply/)

Supplemental Application
A separate Supplemental Application is only required for current undergraduate Sacramento State students who are applying to take first semester program coursework while still classified as an undergraduate. The application link is posted on the Teaching Credential website in October of the year prior to admission.

Additional Information
Certificate of Clearance (COC/Fingerprint Clearance)
All applicants must submit verification of having been issued a security clearance by the Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

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Minimum Units and Grade Requirement for the MAT Degree
Units required for the MAT degree: 30
Minimum Cumulative GPA for the MAT degree: 3.0

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Continued Enrollment: Continued enrollment in the MA in Teaching with Single Subject Teaching Credential Program is contingent upon candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of "D", "F", and "NC" (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee. Any student on academic probation is subject to automatic disqualification unless approved by the Credential Appeals Committee to continue.

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**Delays:** Candidates who have to delay progress in the MA in Teaching with Single Subject Teaching Credential Program will file a "Program Delay Petition" in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Candidates must return and complete the program within the seven-year limit for graduate programs.

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This procedure should begin as soon as the classified graduate student has:

- Completed 15 units in the graduate program with a minimum 3.0 GPA; and
- Met the Graduate Writing Requirement through completion of the Graduate Writing Intensive (GWI) course, EDSS 241, with a B grade or better.

Advancement to Candidacy forms are available online through the Office of Graduate Studies. The student should complete the form in consultation with the MAT Program Coordinator. The form must be submitted online with the Office of Graduate Studies for approval.

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**Single Subject Concentration Courses (13 Units)**

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<tr>
<td>EDSP 293</td>
<td>Strategies for Inclusive Classrooms</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**  

30

1. Taken during summer after credential coursework complete.
Minor in Special Education

The Special Education minor consists of interdisciplinary coursework designed to familiarize students with the field of special education and disability studies and to gain knowledge and experience with theory and research in these areas. Students will explore the personal, historical, political, cognitive, and contextual factors that play a role in the lives of students with disabilities and in the lives of their advocates. Students will explore the career of Education Specialist while learning about various pathways to working with students with disabilities.

Students must earn a minimum grade of C- in all courses for the minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EDSP 101</td>
<td>Becoming an Education Specialist</td>
<td>3</td>
</tr>
<tr>
<td>WGS 75</td>
<td>Introduction to Disability Studies</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 100A</td>
<td>Educating Students with Disabilities in Inclusive Settings</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 100B</td>
<td>Educating Students with Disabilities in Inclusive Settings Lab</td>
<td>1</td>
</tr>
<tr>
<td>EDSP 119</td>
<td>Legal and Social Foundations of Inclusive Education</td>
<td>3</td>
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</table>

Elective Options (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSHD 108</td>
<td>Family Communication</td>
<td>3</td>
</tr>
<tr>
<td>FSHD 150</td>
<td>Family Stress and Coping: Multicultural Focus</td>
<td>2</td>
</tr>
<tr>
<td>CHAD 156</td>
<td>Child and Adolescent Development in Context</td>
<td>1</td>
</tr>
<tr>
<td>WGS 175</td>
<td>Gender &amp; Disability</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 4</td>
<td>Language, Culture, and Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>DEAF 60</td>
<td>Introduction to Deaf Studies</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 131</td>
<td>Language Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 142</td>
<td>Development of Learning and Memory</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 18

1. CHAD majors may not use EDSP 101 or EDSP 119 to fulfill requirements for the major.
2. Some of these courses have prerequisites. Consult the course catalog to ensure you have met them prior to enrolling.

Undergraduate Studies in Education Program Descriptions


Child and Adolescent Development is the study of the biological, physical, socio-emotional, and cognitive growth and development of the child from conception through emerging adulthood. Using theory, empirical research, and practice, this rigorous academic program prepares students to work as agents of social change with diverse populations of children, adolescents, emerging adults, and families in a variety of areas, including education, advocacy, research, policy, counseling, and/or other...
settings. BA degree, Minor, and MA degree programs are available in Child and Adolescent Development.

The Bachelor of Arts in Child and Adolescent Development offers three concentrations: Educational Contexts, Early Development, Care, and Education, and Social and Community Contexts. Students choosing the Concentration in Educational Contexts will be equipped to understand and apply developmental perspectives and engage in ethical and reflective practices within the educational context. Graduates will be prepared for careers in elementary school, and special education. Students choosing the Concentration in Early Development, Care, and Education will be equipped to apply developmental perspectives when working with young children (aged birth through 8 years) and their families. Graduates will be eligible for the Child Development Teacher Permit. The graduates of the Concentration in Social and Community Contexts are equipped to support developmental trajectories through application of theory and research into practice within diverse community settings. Graduates will be prepared for careers in community, social, government, or counseling settings. All three concentrations can prepare students for advanced degree and professional programs.

The Multiple Subject Matter Waiver is a series of courses that allow students to meet the California Commission on Teacher Credentialing (CTC) subject matter competency requirement for admission to a multiple subject or special education teaching credential program in California. The subject matter waiver is an alternative to the state-approved content exam, the California Subject Exam for Teachers (CSET), Multiple Subjects. The Subject Matter Waiver can be integrated with the Child and Adolescent Development (Educational Contexts) concentration to meet GE/GR and major requirements, with advising.

The Master of Arts in Child and Adolescent Development program offers opportunity for the advanced study of developmental theory and research in pursuit of a wide range of professional objectives. The program emphasizes scholarly reflection on developmental issues and academic excellence in oral and written communication, and prepares graduates for work with infants, children, adolescents, and their families in a variety of settings. Child and Adolescent Development MA students pursue careers in program administration, parent education, research, community college instruction, and work in counseling, social service, non-profit, and community agencies. The MA also prepares students for additional study toward a doctoral degree in child development, developmental psychology, or a related field.

The Minor in Child and Adolescent Development is designed to combine with a different major to prepare students to work as agents of social change with diverse populations of children, adolescents, emerging adults, and families in a variety of settings.

The Minor in Counseling (p. 572) can be paired with any major (including CHAD). Students will critically examine the theory and research on social and emotional development, and specifically explore the role of the family context in developmental processes, with specific attention to dynamic family processes within the larger society. Students will explore the career of counseling, and related cultural, social, and emotional factors.

Deaf Studies (https://www.csus.edu/college/education/undergraduate/deaf-studies.html)

Deaf Studies takes an interdisciplinary, deaf-centric approach to the study of deaf and hard-of-hearing people in American and global societies. The major and minor programs promote understanding of deaf individuals as members of diverse sociolinguistic groups with distinct cultures, traditions, literatures, and languages. Students will develop skills in analyzing stereotypes and policies around deaf people, which may allow them to work within this population and in their communities to affect and support deaf equity.

With a Deaf Studies Major, students will be prepared to undertake further training in order to enter the fields of interpreting, education, or other specialized fields working with deaf consumers. This degree is not meant to be a substitute for these types of programs, but a bridge toward them.

With an ASL and Deaf Studies Minor, students may obtain entry-level jobs in settings working with Deaf individuals such as residential supervisor, classroom aide, vocational trainer, and much more. Students may also combine an ASL and Deaf Studies Minor with a related major field of study such as education, counseling, audiology and speech therapy for a more well-rounded grounding in Deaf and hard-of-hearing issues in their field. Students in fields which are not specifically Deaf-related such as nursing, law, computer engineering, and many more may also experience an edge in gaining employment anywhere, with a minor in ASL and Deaf Studies compared to those without similar coursework or experience.

Further, students having completed the Deaf Studies Major and Minor may be able to waive similar coursework at other universities with specialized fields of study centered on Deaf and hard-of-hearing people that may not be offered in the Sacramento region.

Education

The EDUC program offers a Minor in Social Justice in Education (p. 572), which focuses on the theoretical, historical, and cultural constructs of power and oppression and the ways they intersect within education. The EDUC courses address current issues regarding race, ethnicity, culture, language, socioeconomic status, abilities, and gender diversity. The courses also underscore how education can be transformative and used as a tool to eradicate oppression and foster perspectives that promote social justice in education. The goal of the Minor is to empower students to teach or work towards building an antiracist, equitable, and inclusive place in education. The program also offers a variety of courses that meet General Education and Graduation Requirements, as well as courses taught in the Bachelor of Science in Career and Technical Studies program.

Career and Technical Studies (https://www.cce.csus.edu/bscts/)

Offered through a partnership between the College of Continuing Education and the College of Education, the Bachelor of Science in Career and Technical Studies (BSCTS (p. 568)) is an online degree completion program designed to prepare working adults with practical, marketable skills to successfully enter new careers or advance in their current fields. The program uses instructional techniques suited to adult learners, including real world instruction and personalized academic advising, and offers networking opportunities and accelerated programming. The program is versatile and can be applied to a variety of disciplines. The degree can serve as a springboard to a master's degree or as a career ladder into many professions.

Degree Programs

- BA in Child and Adolescent Development (Educational Contexts) (p. 563)
- BA in Child and Adolescent Development (Social and Community Contexts) (p. 565)
• BA in Child and Adolescent Development (Early Development, Care, and Education) (p. 562)
• MA in Child and Adolescent Development (p. 569)
• BA in Deaf Studies (p. 567)
• BS in Career and Technical Studies (p. 568)
• Minor in American Sign Language/Deaf Studies (p. 571)
• Minor in Counseling (p. 572)
• Minor in Social Justice in Education (p. 572)

Notice to Students RE: Professional Licensure and Certification
California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

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Undergraduate Studies in Education Website (https://www.csus.edu/college/education/undergraduate/)

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• Sherrie Carinci (carincis@csus.edu), BS in Career and Technical Studies Coordinator
• Leah Zarchy (leah.geer@csus.edu), Deaf Studies coordinator

Faculty
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AUGUST, RACHEL A.

BECKER, VALERIE

BELLON, CHRISTINA M.

BENNETT, MELA

BENTO (LYONS), DIANE

BERSOLA-NGUYEN, IRENE

BOHON, LISA

BRADY, DEBRA

BRODD, JEFFREY

BROWN-WOOD, JANAY

CALTON, JEFFREY L.

CAMARGO GONZALEZ, LORENA

CANTRELL, LISA

CARINCI, SHERRIE

CASTANEDA, TERRI

CLARK, JOHN T.

COHEN, AARON J.

DENMAN, DAVID

DINIS, MARIA

DIXON, ROY W.

DOBSON, MONA

DUTRA, NATE

ELLIS, BASIA

ESCAMILLA, RALPH

ETTINGER, PATRICK W.

FERREIRA VAN LEER, KEVIN

FERRY-PERATA, ELIZABETH

FLORES, ALMA

GARCIA-NEVAREZ, ANA

GOLDSTENE, JAMES

GONZALEZ, AMBER

GRUSKIN, DONALD

HAUSBACK, BRIAN P.

HEMBREE, SHERI

HERRERA, ALICIA

HIBBARD, EVAN

HOBBS, SUE

HUANG, HUI-JU
CHAD 23. Observation and Assessment in Child Development. 3 Units

Term Typically Offered: Fall, Spring

Purposes of and methodological issues involved in assessing and observing early child development and learning in educational and developmental settings. Topics include selection of appropriate observation methods, survey of standardized measures, ethics, and interpretation and implications of assessment data for teaching and learning. Focus will be on becoming objective and unbiased observers, use of informal and formal assessment tools, and principles of observational assessment research. Students will be required to complete up to 10 hours of observation outside of class.

CHAD 30. Human Development. 3 Units

General Education Area/Graduation Requirement: Understanding Personal Development (E)

Term Typically Offered: Fall, Spring

Interdisciplinary study of human development with practical observations. Addresses physical, socio-cultural, intellectual and emotional aspects of growth and development from conception to death. A variety of field experiences will be required.

CHAD 30C. Human Development and Fieldwork in Community and Social Contexts. 3 Units

Prerequisite(s): CHAD 30 or CHAD 35, or the equivalent; CHAD 30 may be taken concurrently.

Term Typically Offered: Fall, Spring

This course aims to prepare students to become familiar with the operations of organizations serving children and adolescents in the community and identify professional opportunities in the field of child and adolescent development through class activities and 40 hours of fieldwork. Students will engage in directed field experiences in community and social settings and attend an on campus seminar. Students will translate theory into practice and reflect on experiences. Issues on equity and diversity within human development will be discussed.

Note: Fieldwork includes 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement; Service Learning may be required.
CHAD 31. Adult Supervision and Mentoring In Early Childhood Programs. 2 Units
Prerequisite(s): CHAD 30 or CHAD 35 or equivalent.
Term Typically Offered: Spring only
Study of research and exemplary practices in the supervision of early childhood teachers, other program staff, parents and volunteers. Content emphasizes adult learning.

CHAD 32. Administration and Supervision of Early Childhood Programs. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Fall only
Basic issues, procedures and practices in the administration and supervision of public and private schools. Requires administrative supervisory fieldwork in an early childhood program.

CHAD 35. Child and Adolescent Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
This course examines development from conception through adolescence. Content will include development in physical, cognitive, social, linguistic, and emotional domains. Through activities such as observation and reflection, students will explore interactions among developmental pathways, individual differences, and contextual factors such as culture, family, race, gender, ability, and socioeconomic status.

CHAD 35E. Early Childhood Field Experience. 3 Units
Prerequisite(s): CHAD 35 or CHAD 30 or the equivalent. CHAD 35 may be taken concurrently.
Term Typically Offered: Fall, Spring
This course examines theory and research in human development as it applies to early childhood education settings (0-5 years). Concepts related to cognitive, social-emotional, linguistic, and physical development, establishing and maintaining high quality programming (e.g. optimal learning environments, observation, etc.), and influences on development (e.g., family, race, cultural perspectives) within these settings will be discussed. Fieldwork includes 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement.
Note: Fieldwork requirements include 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement; Service Learning may be required.

CHAD 35F. Human Development and Elementary Field Experience. 3 Units
Prerequisite(s): CHAD 35 or the equivalent; CHAD 35 may be taken concurrently.
Term Typically Offered: Fall, Spring
The purpose of this course is to examine theory and research in human development as it applies to the elementary classroom. Discussion topics include cognitive, social-emotional, physical and language development, multiple intelligence, special needs, characteristics of play and the impact on social and cognitive development. Influences integral to development (e.g., family, race, cultural perspectives) are also included. This class requires 40 hours of field experience at a designated elementary school site. Students must complete fingerprinting and TB prior to placement.
Note: Service Learning may be required.

CHAD 44. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Term Typically Offered: Fall, Spring
Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.
Note: May be taken up to four times for credit (maximum 12 units of credit).
Credit/No Credit

CHAD 101. Career and Major Exploration in Child and Adolescent Development. 2 Units
Term Typically Offered: Fall, Spring
This course builds on lower-division major coursework and fieldwork to promote balanced scholarship and professionalism in the field of Child and Adolescent Development. Students will: 1) investigate their major and explore reading and writing in the discipline; 2) survey the breadth of professional opportunities, refine professional interests, and begin developing their professional portfolio; 3) engage in personal reflection to develop an individualized plan to guide their trajectory within the major in preparation for their future academic and/or professional goals. Pre-requisite: (CHAD 30 or CHAD 35) and (CHAD 35F or CHAD 35E or CHAD 30C). CHAD 35F, CHAD 35E, or CHAD 30C may be taken concurrently. Must have 45 units completed.
Credit/No Credit

CHAD 123. Qualitative Methods in Human Development. 4 Units
Prerequisite(s): CHAD 30 or CHAD 35, or equivalent; CHAD 101.
CHAD 101 may be taken concurrently.
Term Typically Offered: Fall, Spring
Introduction to qualitative research methods, their philosophical underpinnings, and their implications for understanding human development. The focus will be on identifying, interpreting, and designing qualitative research to study developmental processes. Attention will be given to methodological strategies used to document and analyze development in context, including participant observation field notes, interviews, documents, and artifacts, with implications for theory and practice. Activities include interpreting qualitative research, qualitative data collection and analysis, and communicating findings utilizing APA style.
Note: For CHAD majors, must be taken prior to completion of 45 total units credit.
CHAD 128. Combined Research Methods in Human Development.  3 Units

Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Fall, Spring, Summer

Introduction to qualitative and quantitative research methods and their philosophical underpinnings. Consider theoretical, methodological, and ethical issues in studying learning and developmental processes from an interpretive and social constructivist perspective. Think critically about the generation of research questions and hypotheses and design and conduct of research inquiry, with implications for theory, policy, and practice. Students learn to locate, understand, critique, conduct, and report research findings from multiple approaches and be introduced to APA style writing as a tool for scholarly communication.

CHAD 130. Parent Education.  3 Units

Term Typically Offered: Fall, Spring

Ways parent education may be conducted in Child Development programs to meet legislated requirements as well as parent needs. Attention will be given to parent education programs which serve children of different ages, diverse language and cultural backgrounds, and children with special needs. The rights and responsibilities of children, parents and teachers will be discussed. Discussion and participation in such classroom activities as panels, presentations, demonstrations and cooperative learning assignments.

CHAD 131. Language Development.  3 Units

Prerequisite(s): CHAD 133. CHAD 133 may be taken concurrently.
Term Typically Offered: Fall, Spring

This course examines current views on language development and the interrelations between the cognitive, socio-cultural, and linguistic components of this process. Emphasis will be on early language development (0-6 years) with some attention paid to the school years and adolescence.

CHAD 133. Quantitative Methods in Human Development.  4 Units

Prerequisite(s): CHAD 30, or CHAD 35, or equivalent; CHAD 101; CHAD 101 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to quantitative research methods in human development and their philosophical underpinnings. Major topics include structures, design, and conduct of research inquiry; the generation of research questions and hypotheses; and collection and analysis of data. Students will be challenged to think critically about methodological issues, engage in quantitative research and conduct analyses, and increase their ability to locate, understand, critique, apply, and report research findings. APA style will be introduced to support the development of scholarly communication and writing.

Note: For CHAD majors, must be taken prior to completion of 90 units; completion of 45 total units credit

CHAD 134. Development of Young Children as Mathematical and Scientific Thinkers.  3 Units

Term Typically Offered: Fall, Spring

This course offers an introduction to theory, research and practice related to the development of mathematical and scientific reasoning in young children. The course will focus on effective assessment, teaching and learning strategies for young children. This course introduces concepts aligned with the California Preschool Learning Foundations in Mathematics and Scientific Reasoning.

CHAD 135. Culture and Human Development.  3 Units

Prerequisite(s): CHAD 123. CHAD 123 may be taken concurrently.
Term Typically Offered: Fall, Spring

This course examines the relationship between culture and human development. Comparisons will be made between the epistemological principles of cross-cultural and cultural approaches to human development in order to explore their implications for developmental theory and research. Research studies will serve as a foundation for learning and reflecting about diversity in human experience, and the ways that diverse cultural contexts shape how individuals think, act, and engage with others in local and global settings.

CHAD 136. Developmental Experiences, Methods and Curriculum.  3 Units

Prerequisite(s): CHAD 123 (may be taken concurrently).
Term Typically Offered: Fall, Spring

This course examines theory, research, and exemplary curriculum and practices for children in preschool through the elementary grades, including content-specific connections between and among a variety of disciplines, (i.e., literacy, social studies, the arts, science and mathematics). A developmental perspective will frame discussions about fundamental curricular concepts, values, and principles of the subject matter disciplines. This course introduces concepts aligned with the California Preschool Learning Foundations or Common Core.

CHAD 137. Cognitive Development.  3 Units

Prerequisite(s): CHAD 133.
Term Typically Offered: Fall, Spring

This course overviews cognitive development from conception through adolescence with consideration of biological and sociocultural influences. Emphasis will be placed on evaluating the major theories of cognitive growth. The course will include lectures, discussions, and participation in classroom activities such as research presentations, demonstrations, and cooperative learning assignments.

CHAD 138. Social and Emotional Development.  3 Units

Prerequisite(s): CHAD 133.
Term Typically Offered: Fall, Spring

This course overviews social and emotional development from conception through adolescence with consideration of biological and sociocultural influences. Emphasis will be placed on evaluating the major theories of social and emotional growth. The course will include lectures, discussions, and participation in such classroom activities such as research presentations, demonstrations, and cooperative learning assignments.

CHAD 139. Educational Play, Theory and Practice.  3 Units

Term Typically Offered: Fall, Spring

This course examines the role of play in children’s development and learning with an emphasis on early childhood. It discusses theories, research, and applied perspectives to play, as well as principles for designing inclusive and developmentally appropriate play environments and activities that are also culturally and linguistically sustaining for all children. Students will explore how play helps children develop physically, socially, emotionally, cognitively and creatively through a variety of playful modes. Activities include discussions, presentations, demonstrations and cooperative learning assignments.
CHAD 140. Coordination of Early Childhood Programs. 3 Units
Prerequisite(s): CHAD 30 or CHAD 35 or equivalent
Term Typically Offered: Fall, Spring

Advanced methodology of coordinating early childhood programs, to include organization, staff development and community relations. Includes the functions of parents, aides, volunteers and varied early childhood organizational patterns.

CHAD 141. History of Childhood: International and Interdisciplinary Perspectives. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of what it means to be a child in today’s world by comparing social constructions of childhood across the broad historical periods and in contrasting parts of the world. Exploration of cultural beliefs, values and practices of childhood in different historical, social, and economic contexts. Comparative approach provides a critical framework from which to analyze scholarly inquiry about how children develop in families, schools, and broader society. Course content will interest students from a broad array of majors.

CHAD 142. Development of Learning and Memory. 3 Units
Prerequisite(s): CHAD 30 or CHAD 35 or the equivalent
Term Typically Offered: Fall, Spring

This course provides an empirical and theoretical examination of the processes of learning and memory across developmental phases. Topics include the neuroscience of learning and memory, the origin and history of concepts and theories in learning and memory (e.g., behaviorist approaches), and applications of research on memory development to a variety of contexts (e.g., law, education, counseling).

CHAD 143. Mind and Brain in Developmental Context. 3 Units
Prerequisite(s): CHAD 30 or 35; Introductory Biology.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer

Investigation of the biological processes underlying child development, from conception through adolescence. Emphasis will be on the genetic, neurological, and endocrine processes related to cognition, social, and emotional development. Students will explore the bidirectional nature of psychobiological processes, with specific emphasis on the psychobiological mechanisms underlying the transaction between cultural, educational, and social-emotional related to educational, and mental and physical health functioning.

CHAD 144. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.

Note: May be taken up to four times for credit (maximum 12 units of credit).

Credit/No Credit

CHAD 145. Controversial Issues in Childhood Development, Education, and Social Policy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Discussion-based examination of controversial issues linking development, education, and cultural practice in which scholarly inquiry has substantial implications for social policy. Specific topics vary by semester and include topics of both historical relevance and contemporary debates. Content relevant to multiple disciplines including issues such as adolescent risk behavior, bilingual education, brain-based pedagogy, child care, children and the law, cultural diversity, developmental theory and educational practice, gender, literacy practices, motivation, parenting styles, school violence, special education, standardized testing, and technological change.

CHAD 146. Fostering Healthy Youth Development. 3 Units
Prerequisite(s): CHAD 30 or CHAD 35 equivalent
Term Typically Offered: Fall, Spring

This course will examine theory, research, and practice related to youth development, including developmental assets, well-being, civic engagement, resilience, empowerment, and positive youth development from middle childhood to emerging adulthood. Students will gain an understanding of how communities can support youth in developing towards their full potential. Identification of strategies and tools that promote youth development in a variety of contexts and cultures will be discussed. Activities include lecture, discussions, presentations, and cooperative learning assignments.

CHAD 147. Influences of Public Policy on Children & Adolescents. 3 Units
Prerequisite(s): CHAD 133 or CHAD 123. CHAD 133 or CHAD 123 may be taken concurrently.
Term Typically Offered: Fall, Spring

This course will provide students with an overview of US social policy and programs as they relate to children and adolescents. The policy process will be explored with attention paid to the role of empirical research, advocacy, and engagement of individuals and groups. Topics will include policies and programs that address poverty, education, families, ability, immigration, and criminal justice, among others. Students will analyze how policy integrates empirical research, meets their stated goals, and supports the development of diverse children.
CHAD 150. Literacy Development for Monolingual and Multilingual Children. 3 Units
Prerequisite(s): CHAD 123
Term Typically Offered: Fall, Spring

Students will investigate emergent literacy and literacy development of monolingual and multilingual young children from birth to eight, including developmental progressions and the science-based evidence related to foundational language and literacy knowledge. Other focal points will include associations with literacy and home-school connections, cultural influences (socioeconomic status, linguistic, etc.), social and linguistic justice, observation and assessment, theory to practice, and developmental strategies for supporting and understanding literacy development.

CHAD 153. Apprenticeship in Advanced Child Development. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Faculty mentors will meet with graduate and undergraduate apprentices individually or in small groups for guided discussions of assigned readings and/or research data analysis/collection endeavors. Prerequisite: Instructor permission.
Note: Readings will depend on the specific mentor’s research or scholarly interest; May be repeated up to four times for 12 units of credit, with a limit of 6 units applied towards the CHAD major requirements.

CHAD 156. Child and Adolescent Development in Context. 3 Units
Prerequisite(s): CHAD 35 or CHAD 30 (or equivalent)
Term Typically Offered: Fall, Spring

Investigation of the dynamic nature of child and adolescent development in the context of families, schools, and community. Students will gain an understanding of how issues in these contexts influence development and explore the dynamic relationships between contexts in promoting development. Attention will be paid to socioeconomic status as a context as well as the role of gender, race and ethnicity within contexts as they relate to development. Students will examine practices that strengthen collaboration between families, schools, and communities.

CHAD 157. Infant and Toddler: Development and Care. 3 Units
Prerequisite(s): One of the following: CHAD 30 or CHAD 35, FACS 50, PSYC 148, or SWRK 125A
Term Typically Offered: Fall, Spring

Research theory and practice are examined in relation to each area of infant and toddler development (conception through 24 months): Physical, social, emotional, cognitive, and perceptual. Individual differences and needs are stressed. Issues pertinent to individual and group care will be covered. Activities include lecture, discussion, and observations.
Cross Listed: FACS 157; only one may be counted for credit.

CHAD 172. Identity Development. 3 Units
Prerequisite(s): CHAD 30 or CHAD 35; CHAD 123 or CHAD 133; CHAD 123 or CHAD 133 may be taken concurrently
Term Typically Offered: Fall, Summer

This course will examine theory and research related to identity development among children, adolescents, and emerging adults. Students will gain an understanding of how identity varies as a function of gender, sexual orientation, income, education, race and ethnicity, abilities, and other factors and how these identities intersect and shape social interactions. In addition, focus will be on how identity shapes experiences of oppression, marginalization, privilege, and power. Methodologies used to understand identity development will also be explored.

CHAD 190. Capstone in Child and Adolescent Development. 3 Units
Prerequisite(s): CHAD 123, CHAD 133; CHAD 137 OR CHAD 138.
Term Typically Offered: Fall, Spring

As a culminating experience for the major, students blend professional and academic knowledge and experience. Students prepare for next professional steps, synthesize scientific knowledge of human development on a relevant topic of their choosing, and complete a related project with application in a community setting. Students complete 40 hours of fieldwork. Projects will be original, evidence-based, and address identified needs in the fieldwork setting. Course culminates in a community-invited senior presentation forum. Recommended to be taken in the final semester.
Note: Fieldwork includes 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement; Service Learning may be required.

CHAD 191. Early Childhood Education Practicum. 3 Units
Prerequisite(s): CHAD 123 and CHAD 133.
Term Typically Offered: Fall, Spring

Students will utilize classroom experiences to make connections between theory and practice and develop professional behaviors. Students will plan, organize, implement and evaluate classroom activities under the supervision of a CHAD faculty and a qualified early education professional. Reflective practice will be emphasized as students design, implement, and evaluate approaches, strategies, and techniques that promote development and learning. Completion of 120 hours of supervised practicum is required.

CHAD 194. Cooperative Education Experience. 3 Units
Prerequisite(s): Completion of 60 units total credit and instructor permission. May be taken four times for a maximum of 12 units credit.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student’s major field of study and academic credit. Students receive supervised employment in school districts, state and community agencies, companies and other appropriate settings. Requires regular meetings with faculty supervisor; completion of field study assignment, evaluation by field-based supervisor; and a written final report. Credit/No Credit
CHAD 195. Internship in Child & Adolescent Development. 3 Units
Prerequisite(s): CHAD 30E, 35F, or 30C or equivalent. Completion of 60 units total credit and instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide a range internship experiences where students apply academic knowledge to educational or community settings. Students receive supervised employment in school districts, state and community agencies, companies and other appropriate settings. The field experiences will be combined with class activities designed to develop students' understanding of topics related to their service. Requires regular meetings with faculty supervisor, completion of field study assignment, evaluation by field-based supervisor, and a written final report. The internships can be paid or unpaid.
Credit/No Credit

CHAD 196A. Approaches to Research Methods in Child Development A. 3 Units
Prerequisite(s): CHAD 30 or CHAD 35 or equivalent; completion of 45 total units; Must be taken prior to completion of 90 units.
Term Typically Offered: Fall, Spring

This course examines methodological issues involved in assessment, observation, analysis, and design in the field of child development. Topics include the research process, APA style writing, ethics, design and methods, use assessment tools, qualitative and quantitative data analysis and interpretation. The focus will be on becoming critical consumers of research and developing the skills of scientific inquiry.
Note: First course in a series. 196B must be taken in the semester immediately following completion of CHAD 196A.

CHAD 196B. Approaches to Research Methods in Child Development B. 3 Units
Prerequisite(s): CHAD 196A.
Term Typically Offered: Fall, Spring

Two semester sequence of instruction that examines methodological issues involved in assessment, observation, research design, and analytical concepts involved in the field of child and adolescent development. Topics include the research process, APA style writing, ethics, design and methods, use assessment tools, qualitative and quantitative data analysis and interpretation. The focus will be on becoming critical consumers of research and developing the skills for scientific inquiry.
Note: Must be taken prior to 90 units.

CHAD 196U. Child and Adolescent Development in Context. 3 Units
Prerequisite(s): CHAD 30 or CAHD 35 (or equivalent).
Term Typically Offered: Fall, Spring

Investigation of the dynamic nature of child and adolescent development in the context of families, schools, and community. Students will gain an understanding of how issues in these contexts influence development and explore the dynamic relationships between contexts in promoting development. Attention will be paid to socioeconomic status as a context as well as the role of gender, race and ethnicity within contexts as they relate to development. Students will examine practices that strengthen collaboration between families, schools and community.

CHAD 196X. Guided Human Development Experience Around the World. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35, and 2.75 GPA, or instructor permission. Field trip.
Term Typically Offered: Summer only

Course provides a range of guided learning experiences outside the United States, allowing students to experience human development more broadly to promote a global perspective. Experiences include, but are not limited to, observation, fieldwork, data gathering, or other modes of interaction with the people and culture in the country. Students will reflect on experiences in writing and in discussion in light of readings on developmental theory and research.
Note: Course is credit/no credit. It may be taken twice with different instructors.
Credit/No Credit

CHAD 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects designed especially for students capable of independent study. Admission by written approval of the instructor and Department Chair.
Credit/No Credit

CHAD 200. Proseminar in Human Development. 3 Units
Prerequisite(s): Admission to MA Child Development program or instructor permission.
Term Typically Offered: Fall only

Introduction to graduate education in the Child and Adolescent Development Program. Orientation to advanced scholarship in human development with a focus on understanding and evaluating current directions in developmental research. Students will explore interrelations among theory, research, and practice as applied to human development. Students will critically evaluate developmental research as it applies to diverse populations, including issues of antiracism, equity, individual differences, contexts, and historical time. Students will employ writing conventions specific to the discipline.

CHAD 210. Seminar in Social Development. 3 Units
Term Typically Offered: Spring only

Advanced developmental seminar focusing on theoretical and empirical research covering topics in socio-emotional development. Specific topics will be related to socio-emotional development of children from conception through emerging adulthood with consideration of biological, environmental, and sociocultural influences. Students will critically evaluate socio-emotional developmental theories as they apply to diverse populations, individual differences, contexts, and historical time. Students will also reflect on how to use that knowledge to work towards antiracism, equity, and inclusion in the study of socio-emotional development.
CHAD 211.  Seminar in Cognitive Development.  3 Units  
Prerequisite(s): Admission to MA program or instructor permission.  
Term Typically Offered: Fall, Spring  
Advanced developmental seminar focusing on theoretical and empirical research covering topics in cognitive development. Specific topics will be related to cognitive development of children from conception through emerging adulthood with consideration of biological, environmental, and sociocultural influences. Students will critically evaluate cognitive developmental theories as they apply to diverse populations, individual differences, contexts, and historical time. Students will also reflect on how to use that knowledge to work towards antiracism, equity, and inclusion in the study of cognitive development.

CHAD 227.  Seminar in Social Development  3 Units  
Prerequisite(s): CHDV 200 or instructor permission. CHDV 200 may be taken concurrently.  
Term Typically Offered: Fall, Spring  
In-depth examination of the relationship between culture and human development. Opportunities will be provided to evaluate how different theoretical and methodological approaches are used in the study of human development across cultures, including their epistemological principles, scope, and limitations. Developmental research will be used as the foundation to evaluate how diversity in human experiences shape how individuals think, act, and engage with others in local and global settings.

CHAD 242.  Theoretical Approaches to Development.  3 Units  
Prerequisite(s): CHAD 137 or CHAD 138. Graduate standing or instructor permission.  
Term Typically Offered: Fall only  
An in-depth examination of theoretical approaches to various domains of human development. Content includes current and historical developmental theory and application of theory to developmental research. Critical thinking skills and scholarly writing will be emphasized.  
Note: Graduate Writing Intensive course

CHAD 244.  Community Service Learning in Developmental and Educational Settings.  1 - 3 Units  
Term Typically Offered: Fall, Spring  
Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.  
Note: May be taken up to four times for credit (maximum 12 units of credit).  
Credit/No Credit

CHAD 245.  Selected Topics in Developmental Theory.  3 Units  
Prerequisite(s): Admission to MA program or instructor permission.  
Term Typically Offered: Fall, Spring  
In-depth study of a selected topic in human development. Topic varies with each offering by rotating instructors. This course explores contemporary advancements in theory and research in the selected sub-discipline or topical area within human development.  
Note: May be taken twice as long as topics and instructors differ.

CHAD 246.  Motivation and Learning in Children.  3 Units  
Prerequisite(s): Graduate standing, or instructor permission.  
Term Typically Offered: Fall, Spring  
Sources of and developmental changes in motivation, including biological predispositions, critical life events, individual differences, and social, cultural and educational experiences will be examined. Students will participate in a group research effort on motivation and educational practice.

CHAD 247.  Seminar in Culture and Human Development.  3 Units  
Prerequisite(s): CHDV 200 or instructor permission. CHDV 200 may be taken concurrently.  
Term Typically Offered: Fall, Spring  
In-depth examination of the relationship between culture and human development. Opportunities will be provided to evaluate how different theoretical and methodological approaches are used in the study of human development across cultures, including their epistemological principles, scope, and limitations. Developmental research will be used as the foundation to evaluate how diversity in human experiences shape how individuals think, act, and engage with others in local and global settings.

CHAD 248.  Curriculum and Instruction.  3 Units  
Prerequisite(s): Graduate standing or instructor permission.  
Term Typically Offered: Fall, Spring  
Advanced study of the sociocultural influences on curriculum development. Research, theory, and curricular practices will be analyzed, evaluated and applied to a variety of preschool and primary grade settings.

CHAD 249.  Language Processes in Development.  3 Units  
Prerequisite(s): Admission to MA program or instructor permission.  
Term Typically Offered: Fall, Spring  
Language is an important cognitive and communicative tool that promotes learning. Through an integrative approach to language and cognitive development, students will examine how children learn through language. Students will have practical experience in collecting and analyzing children's language learning in educational settings.

CHAD 250.  Advanced Quantitative Research Methods in Human Development.  3 Units  
Prerequisite(s): CHAD 133; admission to the MA program or instructor permission.  
Term Typically Offered: Fall, Spring  
Critical analysis of quantitative research methods used in the study of human development and their philosophical underpinnings. Major topics include design; ethical conduct of research inquiry; the generation of research questions and hypotheses; and data collection, analysis, and interpretation. Critical thinking and disciplinary style writing skills will be emphasized.

CHAD 253.  Apprenticeship in Advanced Child Development.  3 Units  
Prerequisite(s): Instructor permission.  
Term Typically Offered: Fall, Spring  
Faculty mentors will meet with graduate and undergraduate apprentices individually or in small groups for guided discussions of assigned readings and/or research data analysis/collection endeavors.  
Note: Readings will depend on the specific mentor's research or scholarly interest; May be repeated up to 4 times for credit.

CHAD 258.  Advanced Qualitative Research Methods in Human Development.  3 Units  
Term Typically Offered: Fall, Spring  
Critical analysis of qualitative research methods used in the study of human development and their philosophical underpinnings. Major topics include design; ethical conduct of research inquiry; the generation of research questions; and data collection, analysis, and interpretation. Critical thinking and disciplinary style writing skills will be emphasized.
CHAD 290. Writing a Proposal.  3 Units
Prerequisite(s): CHAD 200 and CHAD 242 or instructor permission.
Corequisite(s): CHAD 250 or CHAD 258
Term Typically Offered: Fall, Spring

Seminar to focus on creating a proposal for the culminating experience (thesis/project). Students will be required to review various source materials related to their topic in human development, and synthesize the extent knowledge to justify their study or project. Course culminates with the completion of the research proposal.
Credit/No Credit

CHAD 292. Culminating Seminar for Exam Option.  3 Units
Prerequisite(s): Completion of all foundation course requirements for MA program (CHAD 200A, CHAD 200B, CHAD 242, CHAD 247, CHAD 250) advancement to candidacy, or instructor permission.
Term Typically Offered: Fall, Spring

Seminar to focus on topics/elements/expectations for the exam option culminating experience: test preparation and tips, exam writing, practice exam questions, time management, and community building with other students. Students will complete reading and writing assignments related to each exam area and prepare for an exam question related to an approved elective topic of their choice. Students will submit an exam petition to be reviewed and approved by the departmental exam committee.
Credit/No Credit

CHAD 295. Practicum in Child Development.  1 - 3 Units
Prerequisite(s): Graduate standing, or instructor permission.
Term Typically Offered: Fall, Spring

Directed field based experience in preschool, elementary or other community based settings serving children from infancy through adolescence and their families. Designed to provide students the opportunity to develop professional skills and understandings in applied settings or explore career development opportunities with particular emphasis on leadership or administrative skills and knowledge.
Note: Students are required to work at an instructor-approved field site consistent with their career goals and interests and attend an on campus seminar.

CHAD 299. Special Problems.  1 - 3 Units
Prerequisite(s): Open only to upper division and graduate students with consent of faculty advisor and Department Chair.
Term Typically Offered: Fall, Spring

Individual projects at graduate level designed especially for students capable of independent study. Departmental petition, signed by instructor with whom student will be working and department chair, required.
Credit/No Credit

CHAD 504. Culminating Experience in Child Development: Thesis or Project.  3 Units
Prerequisite(s): Advancement to candidacy within the MA Child and Adolescent Development Program.
Term Typically Offered: Fall, Spring

Guidance toward completion of the culminating experience for the MA Child and Adolescent Development program. Credit is given upon successful completion of an approved culminating experience. Open only to graduate students who have 1) advanced to candidacy for the Master’s degree, and 2) secured the permission of their faculty advisor and the Department Chair one full semester prior to registration. Note: Taught in ASL without voice.

CHAD 505. Culminating Experience in Child Development: Exam Option.  3 Units
Prerequisite(s): Admission to and completion of all course requirements for the MA, Child Development program, CHAD 292 or instructor permission.
Term Typically Offered: Fall, Spring

Guidance in ongoing preparation for the examination option for the MA, Child Development program. Credit is given upon successful completion of the examination option for the culminating experience. Open only to the graduate student who has completed all other course requirements, has been advanced to candidacy for the Master's degree, and has secured the permission of the Department Chair one full semester prior to registration.
Credit/No Credit

DEAF 51. American Sign Language 1.  4 Units
Term Typically Offered: Fall, Spring

Students will learn basic vocabulary and grammar of American Sign Language. Upon completion of this course, students will be able to exchange basic information about themselves and their families such as their names, where they live, and their interests. Through out-of-class readings, in-class discussions and demonstrations, and experiences within the deaf community, students are exposed to elements of the deaf culture and community.

DEAF 52. American Sign Language 2.  4 Units
Term Typically Offered: Fall, Spring

Students will continue to expand vocabulary and concepts acquired in DEAF 51. Expansion of conversational range includes talking about other people and activities, giving directions, and making requests. Students develop discourse skills appropriate for establishing connections with deaf acquaintances and handling a variety of interruptions. Through in-class discussions/demonstrations, course readings, and out-of-class field experience, students are exposed to elements of the deaf culture and community.
Note: Taught in ASL without voice.

DEAF 53. American Sign Language 3.  4 Units
Prerequisite(s): DEAF 52 or equivalent.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring

Students will expand communicative repertoire developed in DEAF 52 to talk about people and places in a contextually-reduced framework. Students learn to describe places, objects, and events. Students develop basic narrative skills to tell about past events. Through in-class discussions/demonstrations, course readings, and out-of-class field experience, students are exposed to elements of the deaf community and culture.
Note: Taught in ASL without voice.
DEAF 56. ASL Fingerspelling and Numbers. 1 Unit
Prerequisite(s): DEAF 52
Term Typically Offered: Fall only

Students will develop increased fluency in their expressive and receptive abilities in fingerspelling through in-class practice and viewing of videotaped narratives. Students will also reinforce their abilities to utilize ASL numbering systems for time, money, measurements, and game scores, amount others.

DEAF 57. ASL Classifiers. 2 Units
Prerequisite(s): DEAF 53; may be taken concurrently
Term Typically Offered: Fall and Spring

Students will develop increased understanding of the types and uses of classifiers in ASL and develop further abilities to utilize this component of ASL in their expressive and receptive signing abilities through in-class practice, viewing of videotaped narratives, and individual practice outside of class.

DEAF 60. Introduction to Deaf Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall and Spring

Course introduces students to topics central to the deaf and deaf community, including audiology, education, culture, and history. Utilizing readings, lectures and group discussion, students will learn about the anatomy and causes of deafness, early intervention and education of deaf children, communication strategies and their effectiveness, the deaf as a cultural group and deaf/hearing relationships. Upon course completion, students will understand deaf individuals and their community in a holistic perspective and apply this knowledge toward further studies into the deaf culture and community.

DEAF 154. American Sign Language 4. 4 Units
Prerequisite(s): DEAF 53
Term Typically Offered: Fall and Spring

Principles, methods and techniques of manual communication with deaf people using American Sign Language. Emphasis on the continuation of developing advanced manual communication skills with a focus on techniques for informing others of factual information and instruction about rules and methods for students who will work or interact with adult deaf persons. Continuation of the analysis of the culture of deafness with emphasis on participation in the community.

Note: Taught in ASL without voice.

DEAF 155. American Sign Language 5. 4 Units
Prerequisite(s): DEAF 154 or instructor permission
Term Typically Offered: Fall, Spring, Summer

Students will build upon communicative skills developed in EDS 154 to develop and expand on their abilities to discuss parts of the body and health conditions, tell a personal narrative about themselves and moments in theirs and others' lives, as well as to retell and translate simple stories into ASL.

DEAF 161. Deaf History. 3 Units
Prerequisite(s): DEAF 60, DEAF 154
Term Typically Offered: Fall, Spring

An overview of the education of the deaf from prehistoric times to the present will be provided. Roots of current trends and events in deaf education will be explored, with projections for the future. Current issues such as mainstreaming, cochlear implants, communication modalities for instruction and others are discussed in both a historical context and from a deaf perspective.

DEAF 162. Deaf Culture and Community. 3 Units
Prerequisite(s): DEAF 60, DEAF 154
Term Typically Offered: Fall, Spring

Course introduces students to deaf people as a cultural and linguistic minority in America through coverage of sociolinguistic, anthropological, and historic issues in the development of deaf culture and community in America and worldwide. Utilizing readings, lectures and group discussion, topics will include: theories of culture; language use; cross-cultural interaction and intercultural processes, and deaf literature and art. Upon course completion, students will understand current and past educational, legal and medical policies and their impact on deaf and hard-of-hearing people.

DEAF 163. ASL Literature. 3 Units
Prerequisite(s): DEAF 154
Term Typically Offered: Spring only

Students will learn several different forms of ASL literature. Aspects of both form and content will be analyzed as well as their role in the preservation and circulation of Deaf cultural forms. Students will also learn to perform narratives and/or poems in ASL. They will understand the effects of genre, style, perspective, and other artistic techniques on ASL signed art performances, and utilize similar techniques in their developed performances. Students may perform their stories for a general audience.

Note: Course taught in ASL with No Voice.

DEAF 164. Sign Language Structure and Usage. 3 Units
Prerequisite(s): DEAF 154 or instructor permission
Term Typically Offered: Fall only

Examines origins and linguistic structure of American Sign Language (ASL). Cross-linguistic comparisons with spoken and signed languages of other countries will be made. Students will learn aspects of ASL phonology, morphology and syntax. Sociolinguistic aspects of ASL usage in regard to gender, ethnicity, geographical region and educational status will be discussed. Conducted entirely in American Sign Language.

DEAF 165. Seminar: Current Issues in the Deaf World. 3 Units
Prerequisite(s): DEAF 154 or instructor approval
Term Typically Offered: Fall, Spring

This course will explore a specific theme of interest to faculty and students within the program, with course content changed each semester. Selected topics will touch upon issues of special concern and interest to the Deaf community such as genetics, multicultural issues, media representations of deafness, theatre and performance art, visual arts, and other subjects which may arise in the future. Course will consist of readings, discussion, independent research, and viewing of various media as appropriate.

Note: 1) May be repeated when different topic is offered with a different instructor of record 2) Course taught in ASL with No Voice.
DEAF 165A. Spec. topic: English/ASL Translation. 3 Units
Prerequisite(s): DEAF 154
Term Typically Offered: Fall only – even years

This course will focus on translation from written English to ASL. Texts will be examined at the lexical, phrasal, sentential, and extended text levels. Idiomatic and metaphorical language will also be explored. The aim of this course is to develop an understanding of the lexical and syntactical relationships between ASL and English, with the end goal being the students' ability to produce grammatically and conceptually correct signed translations of printed English texts.

DEAF 165B. Spec. Top: Deaf Education - Power & Politics. 3 Units
Prerequisite(s): DEAF 60, DEAF 154, DEAF 161, DEAF 162
Term Typically Offered: Spring only – even years

This course will explore issues of special concern and interest to the Deaf community; More specifically, this course will explore power dynamics and politics of Deaf education through four different dimensions: Language deprivation, audism, educational leadership, and parents of d/Deaf children. The course will consist of readings, discussion, independent research, and viewing of various media as appropriate.

DEAF 165C. Technology and The Deaf Community. 3 Units
Prerequisite(s): DEAF 154 or instructor permission.
Term Typically Offered: Fall only – odd years

This course will focus on technology for communication and sound access and its use within the Deaf Community. The history of this technology and its development will be examined for what makes it useful and acceptable to Deaf/HH individuals. This overview will include analysis of the processes of development and marketing of these devices. The hidden burden of device development and usage will be examined using need and usability analysis.

Note: Conducted entirely in American Sign Language.

DEAF 165D. Spec. Top: Global Deaf Languages & Cultures. 3 Units
Prerequisite(s): DEAF 60, DEAF 154, DEAF 162
Term Typically Offered: Spring only – odd years

This course explores the phenomenon of International Sign, centering around three themes: (1) Sociolinguistics – How languages emerge and change; (2) International Sign – What it is, what it isn’t, and how meaning is constructed; and (3) Deaf Communities around the globe.

DEAF 165E. Deaf Representation in Media. 3 Units
Prerequisite(s): DEAF 60, DEAF 154, DEAF 162
Term Typically Offered: Spring only – odd years

This course will explore issues of special concern and interest to the Deaf community, specifically relating to Deafness and mass media representation. Examples from journalism, TV, film, advertising, photography, documentaries, comic art, and the Internet will be provided and analyzed. The course will consist of readings, discussion, independent research, and viewing of various media as appropriate.

DEAF 166. Experiences in the Deaf Community - Dynamics of Oppression and Building Allyship. 3 Units
Prerequisite(s): DEAF 155, DEAF 161, DEAF 162.
Term Typically Offered: Fall, Spring, Summer

This course links active participation in the Deaf community to the content of previous Deaf Studies courses. In particular this course examines how to be a good ally within the Deaf community in the midst of a context of power, privilege and difference. Following a Service Learning model, students will collaborate on various service projects contributing to the Deaf community. Field trip.

Note: Course taught in ASL with No Voice.

Field trip(s) may be required.

DEAF 199. Independent Study in Deaf Studies. 1 - 3 Units
Prerequisite(s): DEAF 154
Term Typically Offered: Fall, Spring

Individual projects designed especially for students capable of independent study.

Note: Departmental petition required.

EDUC 1. Education, Equity, & American Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

This introductory course provides an overview of the broad landscape of public education in the United States. The course includes three units: 1) Historical Moments in Education, 2) Contemporary Issues in Education, and 3) Social Justice Approaches in Education. Each unit introduces students to ways in which race, ethnicity, and intersectional identities have shaped students’ experiences in schools. The goal of the course is to acquaint students with historical practices and systems that inform present school conditions, and socially just reforms.

EDUC 10. Critical Thinking and the Educated Person. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Examines thinking process patterns and dispositions, for self, children, parents and educators. Familiarizes students with critical thinking, provides a systematic approach to its process and components. Students will learn about problem solving, decision-making, logical and creative thinking. The study of critical thinking will be supplemented with readings, discussions, and written assignments. Implements critical thinking applications used both in student’s academic and personal lives.

EDUC 10H. Critical Thinking and the Educated Person: Honors. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

This introductory course will examine the thinking process patterns and dispositions for self, children, parents and educators. The purpose of this course is to familiarize students with critical thinking, and to provide a systematic approach to its process and components. Students will learn about problem solving, decision-making, logical and creative thinking. The study of critical thinking will be supplemented with readings, discussions, and written assignments. The course will implement critical thinking applications used both in student’s academic and personal lives.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>General Education Area/Graduation Requirement</th>
<th>Prerequisite(s)</th>
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<tr>
<td>EDUC 18</td>
<td>Medical Practices Across Cultures.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Understanding Personal Development (E)</td>
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<td>Credit/No Credit</td>
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<tr>
<td>EDUC 21</td>
<td>First Year Seminar: Becoming an Educated Person</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Cultural, socioeconomic and organizational implications are analyzed.</td>
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<td>EDUC 77</td>
<td>Career Vision Seminar.</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Understanding Personal Development (E)</td>
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<tr>
<td>EDUC 99</td>
<td>Special Problems.</td>
<td>1-3</td>
<td>Fall, Spring</td>
<td>Instructor permission.</td>
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<tr>
<td>EDUC 100A</td>
<td>Educating Students with Disabilities in Inclusive Settings</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Math Concepts &amp; Quantitative Reasoning (B4)</td>
<td>EDUC 100B</td>
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<td>Credit/No Credit</td>
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<tr>
<td>EDUC 100B</td>
<td>Educating Students with Disabilities in Inclusive Settings Lab.</td>
<td>1</td>
<td>Fall, Spring</td>
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<td>EDUC 100A</td>
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<td>Credit/No Credit</td>
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<tr>
<td>EDUC 101A</td>
<td>Consultation Strategies for Educators of Students with Disabilities.</td>
<td>2</td>
<td>Fall, Spring</td>
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<td>EDUC 101B</td>
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<td>Credit/No Credit</td>
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<tr>
<td>EDUC 101B</td>
<td>Consultation Strategies for Educators of Students with Disabilities - Lab.</td>
<td>1</td>
<td>Fall, Spring</td>
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<td>EDUC 101A</td>
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<tr>
<td>EDUC 102</td>
<td>Foundations in Career and Technical Studies</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
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<td>Credit/No Credit</td>
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<tr>
<td>EDUC 103</td>
<td>Assessment and Instruction in Adult and Organizational Training.</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
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<td>Credit/No Credit</td>
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Introduction to diverse mathematical thought, action and practices across cultures. Mathematics will be seen from a diversity of contexts. Learners will consider how diverse contexts and traditions both reflect a culture's heritage and world view and influence the mathematics learned and used. Topics covered include: ethnomathematics, mathematical modeling, and cultural connections in relation to diverse forms of quantitative reasoning, problem solving, numbering, systems of organization, perceptions of time and space as experienced by diverse traditions and peoples.

Note: may be repeated for up to 12 units of credit.
EDUC 104. Teaching Issues of Diversity in Schools and Workplace. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Demonstrates how to encourage excellence among and design instruction from different gender, ethnic, sexual orientation, language, and ability groups. This course aims to include research and discussion on education and employment law in regards to sensitivity towards cultural heritages, principles of language acquisition, bias free instructional/ workplace materials and inclusive practices.

EDUC 105. Advanced Instructional Design, Program Evaluation and Leadership in Career Technical Studies. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Explores aspects of CTS program design and management. Investigates aspects of organizing a program following guidelines detailed in the California Career Technical framework. Considers methods of program evaluation following the model set forth by the Western Association of Schools and Colleges (WASC). Examines leadership qualities and values, analyzing potential benefits and liabilities of various leadership styles.

EDUC 106. Individual Growth Through the Examination of Personal Assets, Philosophies and Life Experiences. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course is designed as a primer for EDUC 107 by introducing concepts, exercises, and research that focus on the personal elements associated with leadership and self-growth. Participants will develop greater self-awareness and understanding of key personal assets/ issues that impact leadership development and enhance organizational communication and growth. The impact of life experiences and personal philosophies will be discussed as they relate to effective leadership development. An inter-disciplinary approach to personal growth and development will be emphasized.

EDUC 107. Designing Solutions. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Offers student participation in innovative solutions to organization, team, and individual needs. Using design thinking’s iterative process, students will be able to identify needs and develop potential solutions to meet those needs to improve performance.

EDUC 109. Career Guidance in Career Technical Studies. 1 Unit
Prerequisite(s): Application for Review of Work Experience. Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Examines the professional history of students and assists them in gathering documentation to support their Experimental Learning Portfolio for submission to the CSU Reviewing Committee. Assists students in identifying goals for professional accomplishment.
Credit/No Credit

EDUC 110. Current Issues in Workforce Development. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Course provides an in-depth investigation of various challenges and issues facing workforce development professionals in the public and private sectors. Students will utilize Design Thinking tools in order to identify and study critical workforce development issues, and develop solutions that benefit the individual and organization.

EDUC 111. Education for Career Technical Students with Special Needs. 3 Units
Term Typically Offered: Fall, Spring

Introduces concepts and practices of inclusion of special needs students as provided for under federal legislation and case law. Methods of adapting instruction and devising positive behavioral supports for students of diverse abilities are studied. Methods of assessing the progress of students with diverse abilities are examined.

EDUC 112. Organizational Policies, Finance and Legislation. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course aims to provide students with information which will enhance their understanding of organizational finance, legislation and policies. Critical to this course is the understanding that Career and Technical Education (CTE) organizations rely on local, state and national policy, finance and legislation to function.

EDUC 113. Implement Digital Technologies with Ethical Knowledge. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Develop professional competencies in digital and emerging technologies, defined by the National Association of Colleges and Employers (NACE) taskforce. Cultivate a keen awareness about digital technologies when blending fundamental ethical principles and foresight to make quality decisions. Identify and implement effective pathways to learn and ethically adapt emerging technologies strategically. Solve problems effectively to attain sustainable goals.

EDUC 114. Theories and Practices of Multiculturalism in Schools and Organizations. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

An introduction to the study of multiculturalism and its impact on schools and the workplace. The primary objective is to provide a learning environment which is conducive to the development of knowledge, understanding, and skills consistent with multicultural training and pluralistic philosophies. Students will examine the work of adult education theorists and business scholars that impact schools and the workforce. The course examines social institutions, beliefs, customs, and social trends affecting adult education, organizations, and the workforce.
EDUC 115. Improvement Science for Organizational Effectiveness. 3 Units

Prerequisite(s): Student must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Course explores improvement science methods for disciplined inquiry to solve specific problems of practice. Using assessment tools, strategic planning, systems thinking and organizational development, this course focuses on creating innovative solutions to business and marketplace challenges.

EDUC 116. Methods of Inquiry in Career Technical Studies. 3 Units

Prerequisite(s): Student must be admitted to the BSCTS program
Term Typically Offered: Fall, Spring, Summer

This course provides students with a broad overview of methods and models of academic research. Students will evaluate sources and prioritize those with the highest quality according to key identifying factors. Students will gain understanding of how individual research models are matched to specific issues and problems within the domain of Career Technical Studies, and relate these to their own individual growth and career development based upon their particular interests, goals and strengths.

EDUC 117. Field Experience in Career Technical Education. 1 - 6 Units

Prerequisite(s): Student must be admitted to the BSCTS program
Term Typically Offered: Fall, Spring

Individualized field experience designed collaboratively by the student and instructor.

Note: Department consent required
Credit/No Credit

EDUC 118. Integrative Perspectives in Leadership. 3 Units

Prerequisite(s): Students must be admitted to BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course explores methods of integrative thinking, holistic leadership practices, cultural perspectives, and mindful communication techniques for current and future leaders. This course defines leadership styles and gives students the opportunity to apply integrative thinking models across multiple disciplines.

EDUC 120. Literature For Children. 3 Units

Prerequisite(s): Must have Junior or higher standing to enroll in this course
Term Typically Offered: Fall, Spring

Historical and modern children’s literature; standards of selection and acquaintance with the leading authors and illustrators; procedures and practices in methodology.

EDUC 121. Multicultural Children's Literature. 3 Units

Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Survey of historical and modern multicultural children's literature examining standards of selection and acquaintance with the leading authors, illustrators and book awards; procedures and practice in methodology. Focus on children's literature which represents the diversity in America and fosters an understanding of the cultural values, identity, and heritage of those populations.

EDUC 124A. Tutoring Children in Mathematics. 2 Units

Corequisite(s): EDUC 124B.
Term Typically Offered: Fall, Spring

Orientation to concept and practice of tutoring basic mathematics skills including developing conceptual understanding and the ability to scaffold instruction of addition, subtraction, multiplication and division of whole numbers, fractions, and decimals. After completing on-campus training, students are placed in nearby school districts. May be taken by all undergraduate students and is strongly recommended for students considering careers in education, criminal justice, psychology, and social work. It may also be used as an elective in the Blended Teacher Education Program.

Note: May be taken twice for credit.
Credit/No Credit

EDUC 124B. Tutoring Children in Mathematics: Practicum. 1 Unit

Corequisite(s): EDUC 124A.
Term Typically Offered: Fall, Spring

Practicum of tutoring basic mathematics skills and scaffolding instruction of addition, subtraction, multiplication and division of whole numbers, fractions, and decimals. After completing on-campus training, students are placed in nearby school districts. May be taken by all undergraduate students and is strongly recommended for students considering careers in education, criminal justice, psychology, and social work. It may also be used as an elective in the Blended Teacher Education Program.

Note: May be taken twice for credit.
Credit/No Credit

EDUC 125A. Tutoring Children in Reading. 2 Units

Corequisite(s): EDUC 125B.
Term Typically Offered: Fall, Spring

Orientation to concept and practice of tutoring basic reading skills including sight word recognition, word analysis skills, oral fluency, and comprehension. After completing on-campus training, students are placed in nearby school districts.

Note: Strongly recommended for students considering careers in education, criminal justice, psychology and social work. May be repeated once for credit. May also be used as an elective in the Blended Teacher Education Program.

Credit/No Credit
EDUC 125B. Tutoring Children in Reading Practicum. 1 Unit
Corequisite(s): EDUC 125A
Term Typically Offered: Fall, Spring

Field-based course provides a synthesis and application of course content learned in EDUC 125B. Students are placed in a primary level setting for at-risk students who read approximately two grade levels below their peers. The twice-weekly practicum focuses on comprehension questioning strategies, learning styles and differences, multicultural and ESL strategies, Reader’s theater and poetry, and motivating students to achieve greater academic success.

Note: May be taken by all undergraduate students and must be taken concurrently with EDUC 125A.

Credit/No Credit

EDUC 126. Assisting the Elementary Classroom Teacher. 3 Units
Prerequisite(s): EDUC 125A.
Term Typically Offered: Fall, Spring

Directly connected to hands-on classroom experiences. Students will be intensively trained in workshops, and will work as teacher assistants in public schools (4 hours per week). Students will learn strategies for working with diverse groups of students at all grade levels; keep weekly tutoring logs; and write a case study on a student and present their findings to the class. Students will reflect on their own growth and development.

Note: May be repeated once for credit.

Credit/No Credit

EDUC 127A. Field Experience in After School STEM Programs. 2 Units
Corequisite(s): EDUC 127B
Term Typically Offered: Fall, Spring

Orientation to high quality Science, Technology, Engineering, and Mathematics (STEM) instruction. On-campus training includes skills to develop conceptual understanding and ability to scaffold instruction for elementary and middle school aged students in STEM after school programs. After completing on-campus training, students assist with instruction in nearby school STEM programs.

Note: May be taken twice for credit.

Credit/No Credit

EDUC 127B. Field Experience in After School STEM Programs: Practicum. 1 Unit
Corequisite(s): EDUC 127A
Term Typically Offered: Fall, Spring

This course is designed to connect students with local public school partners in after school programs that support inquiry based STEM activities with K-8 children. After completing on-campus training, students then complete the practicum.

Note: May be taken twice for credit

Credit/No Credit

EDUC 128. Education and Communication in Korean Society. 3 Units
Term Typically Offered: Fall, Spring

This course is designed to explore various dimensions of the education and the communication in Korea. It will focus on (a) the Korean educational philosophy, system, and practices of all levels - preschool to higher education; (b) the Korean language in a variety of communicative contexts; and (c) how education and communication shape and interface. The similarities and differences in education and communication between South Korea and the United States will be also investigated.

EDUC 129. Teaching Science in Outdoor Settings. 3 Units
Term Typically Offered: Fall, Spring

This course provides students with experiential learning in an outdoor setting with the aim of developing and implementing outdoor education activities for children grades 4-7. By engaging in the practices of mindfulness and ecotherapy, students will gain awareness and appreciation for the outdoors. Students will also gain knowledge on how to implement science-focused activities that incorporate the Next Generation Science Standards and California’s Environmental Principles and Concepts while incorporating Social Emotional Learning Principles and Standards.

Note: Students will be required to attend the field site during scheduled class meeting times and must complete fieldwork clearance paperwork. Course can be repeated.

Credit/No Credit

EDUC 130A. Typical & Atypical Developmental Characteristics and Outcomes for Young Children with Disabilities. 2 Units
Prerequisite(s): CHDV 30 or approved equivalent.
Corequisite(s): EDUC 130B.
Term Typically Offered: Fall, Spring

Examination of disabilities and risk factors and their influence on developmental competencies and outcomes for infants, toddlers, and young children. Content will include typical developmental patterns of young children, atypical development due to prenatal, perinatal and early childhood developmental risk factors including low incidence disabilities, and an introduction to interventions in a range of community settings to address the unique needs of these children and their families. Lecture.

EDUC 130B. Typical & Atypical Developmental Characteristics and Outcomes for Young Children with Disabilities Lab. 1 Unit
Prerequisite(s): CHDV 30 or approved equivalent.
Corequisite(s): EDUC 130A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of lecture/discussion course content in home based, center based, and community settings serving infants, toddlers, and young children with disabilities and their families.

Credit/No Credit
EDUC 131A. Introduction to Family Centered Service Delivery In Early Childhood Special Education. 2 Units

Prerequisite(s): EDUC 130A and EDUC 130B or its equivalent.
Corequisite(s): EDUC 131B.
Term Typically Offered: Fall, Spring

Designed to enable participants to gain knowledge and develop skills necessary to provide culturally responsive, family-centered approaches to assessment and intervention for infants and young children with disabilities. Focus will be on the historical, theoretical, and philosophical bases for family-centered service delivery, including an emphasis on understanding family systems and family life stages, respect for cultural diversity, the IFSP process, collaborative parent-professional relationships, parent advocacy, and transition planning. Lecture.

EDUC 131B. Introduction to Family Centered Service Delivery in Early Childhood Special Education Laboratory. 1 Unit

Prerequisite(s): EDUC 130A and EDUC 130B or its equivalent.
Corequisite(s): EDUC 131A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of lecture course content (EDUC 131A) in home-based, center-based and/or community settings serving infants and young children with disabilities and their families.
Credit/No Credit

EDUC 155. Introduction to Counseling. 3 Units

Term Typically Offered: Fall, Spring

Introduction to the profession of counseling, including differences between professional counseling and other professions, counseling theories, consultation skills and an introduction to basic counseling skills. Lecture three hours. Requirement for the Counseling minor, not included in 200-series 60 unit program for master’s degree.

EDUC 156. Power, Privilege and Self Identity in Counseling. 3 Units

Term Typically Offered: Fall, Spring

Focuses on understanding how one’s values, attitudes, belief systems impact perception of differences related to race, ethnicity, culture, etc. Experiential activities promote self awareness while developing capacity in becoming a culturally responsive/skilled counselor. Historical processes that created inter and intra group constructs are explored. Required for the Counseling Minor, not included in 200-series 60 unit master’s degree.

EDUC 157. Child and Family Psychopathology. 3 Units

Prerequisite(s): Students minoring in counseling must take CHDV 30 or CHDV 35 or PSYC 2.
Term Typically Offered: Fall, Spring

Examines the etiology of development and mental health issues in children, youth and caregivers, including genetic and socio-cultural factors. The classification and treatment of abnormal behavior within family contexts will also be explored. Recommended for human services majors such as child development, education, psychology, counseling, social work and criminal justice.

EDUC 158. Latinas/os/x in Education. 3 Units

General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)

Term Typically Offered: Fall, Spring, Summer

This course provides an overview of Latinas/os/x educational experiences within the United States. Students will analyze how historical, contemporary, social, political, and economic forces have shaped Latinas/os/x educational access and attainment. The course will examine how identity markers such as race, ethnicity, language, immigration status, gender, and sexuality inform Latinas/os/x educational pathways. While the course centers on Latinas/os/x, students will compare and contrast Latinas/os/x educational experiences with other Students of Color.

EDUC 160. Urban Education. 3 Units

Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X, or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI), GE AREA D

Term Typically Offered: Fall, Spring

Designed to enhance students’ knowledge of urban schooling, especially related to dynamics of race, class, and culture. Along with a Service Learning component in urban schools, provides analysis of the following: historical, socioeconomic, and political factors influencing urban education; the distribution of opportunity in cities and their schools; and effective instructional organizational practices that close the achievement gap, including the development of positive school cultures and the use of community services and resources.

EDUC 165. Sex Role Stereotyping in American Education. 3 Units

Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE)

Term Typically Offered: Fall, Spring

This course is designed to introduce students to the educational programs and practices resulting from societal sex role and racial stereotyping. It analyzes the specific effects of sex and race inequalities in the total school setting.
EDUC 168. Foundational Issues for a Multicultural, Pluralistic Society, B.  3 Units
Prerequisite(s): Admission and enrollment in BMED multiple subject credential program; EDBM 117.
Corequisite(s): EDBM 402B.
Term Typically Offered: Fall, Spring
Critical examination of the socio-political relationship between California's public schools and its major population subgroups (as defined by culture, gender, social class, language, race/ethnicity, and ability). Candidates critically reflect on the philosophy and practices of schooling in relation to students' culture, family and community; analyze institutional and instructional practices for educational equity; and develop alternative instructional activities based on the principles of multicultural education and English language learning in a democratic society. Lectures, discussions, small group work, simulations, field tasks.

EDUC 169. Cross-Cultural Bridges: A Humanist Approach to Education.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer
This course is designed to expand students' knowledge of how history informs present day dynamics of race, culture, and socioeconomic status in education. Students will examine how humanists in history navigated cultural differences. A critical discourse that centers on humanist pedagogy will be used to show how future educators, leaders, and students can evolve in their own identities to understand cultural differences and how they can create change.

EDUC 170. Introduction to Bilingual Education: Policies, Principles, Programs, and Practices.  3 Units
Term Typically Offered: Fall, Spring
Introductory study and exploration of important themes regarding the education of emergent bi/multilingual students in the context of race, language and power. Covers the history of bilingual education; relevant legal mandates and court rulings; first and second language acquisition; linguistic development; theory and practice of effective programs; and beginning methods, materials and strategies responsive to the students' primary language and assessed levels of English proficiency. A fieldwork component involving the mentorship of an emergent bilingual student is required.

EDUC 171. Bilingualism in the Classroom.  3 Units
Term Typically Offered: Fall, Spring
Provides an overview of the language factors that impact first and second language acquisitions in the K-12 classrooms and will provide opportunities through which they will build a palette of strategies that can be utilized to enhance language development within the realms of listening, speaking, reading, writing, and thinking. A combination of theory and practice will provide the base as students read, discuss, listen to lectures, view videos, conduct in class and field-based tasks, and synthesize their thoughts in writing.

EDUC 172. Introduction to Hmong Literacy.  3 Units
Prerequisite(s): Fluent in Hmong
Term Typically Offered: Fall, Spring
This course covers fundamental literacy components of the Hmong language. It examines the historical development and maintenance of the Hmong oral and written language and related issues based on lectures, class discussions, group work, writing assignments, and a research paper. It fulfills one of the requirements for teaching credential students pursuing the Bilingual Cross Cultural Authorization (BCLAD).

EDUC 173. Hmong History and Culture.  3 Units
Term Typically Offered: Fall, Spring
This course covers history of the Hmong dated 5,000 years ago to the present. It examines Hmong history and culture as it evolves through living in various Asian countries and in the United States through lectures, class discussions, group work, writing assignments, and a research paper.

EDUC 175A. Pedagogy and Academic Language Skills in Spanish for Bilingual Educators (Multiple Subjects).  3 Units
Prerequisite(s): Spanish fluency/literacy required.
Term Typically Offered: Fall only
This course provides opportunities to improve Spanish language for academic and instructional purposes. Students will explore topics in bilingual/biliteracy development, research, and program models, language varieties in Spanish, issues of power and language, advocacy for bilingual students, and engagement with bilingual families, specifically for TK-8th grade dual language contexts. Students also will examine theoretical and pedagogical issues in bilingual education, learn to apply bilingual teaching and assessment methods, analyze TK-8th grade language use, and evaluate Spanish curricular materials.

EDUC 175B. Pedagogy and Academic Language Skills in Spanish for Bilingual Educators (Single Subject).  3 Units
Prerequisite(s): Spanish fluency/literacy required.
Term Typically Offered: Fall only
This course provides opportunities to improve Spanish language for academic and instructional purposes. Students will explore topics in bilingual/biliteracy development, research, and program models, language varieties in Spanish, issues of power and language, advocacy for bilingual students, and engagement with bilingual families, specifically for secondary bilingual contexts. Students also will examine theoretical and pedagogical issues in bilingual education, learn to apply bilingual teaching and assessment methods, analyze 7th-12th grade language use, and evaluate Spanish curricular materials. Includes field component.

EDUC 190A. Becoming an Educator I.  2 Units
Prerequisite(s): All of the following: CHDV 30 or CHDV 35; and CHDV 35F, or equivalents.
Term Typically Offered: Fall, Spring
This is the first in a 2-course series on education as an academic area and profession, designed for students enrolled in teaching credential courses prior to bachelor's completion. Examines personal and academic attributes and achievements necessary for becoming an educator in the general or special education context. This course focuses on fostering personal attributes and fulfilling requirements for entering the profession. Students will complete academic and biographical readings and 30 hours of elementary (TK-8th) classroom observation. Credit/No Credit
EDUC 190B. Becoming an Educator II. 1 Unit
Prerequisite(s): EDUC 190A.
Term Typically Offered: Spring only

This is the second in a 2-course series on education as an academic area and profession, designed for students enrolled in teaching credential courses prior to bachelor's completion. Examines personal and academic attributes and achievements necessary for becoming an educator in the general or special education context. This course focuses on gaining experience in the diverse classroom setting and engaging in reflective teaching practices. Students will complete biographical readings and at least 20 hours of elementary (TK-8th) classroom observation.

Credit/No Credit

EDUC 194. Cooperative Education Experience. 3 Units
Prerequisite(s): Approval of Department Chair.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student's major field of study and academic credit. Students receive employment in school districts, state and community agencies, companies, and other appropriate settings. Requires attendance at weekly meetings, preparation of application packet, completion of field study assignment and a written final report.

Note: Units may not be used to meet course work requirements.

Credit/No Credit

EDUC 196J. Teaching Science in Outdoor Settings. 3 Units
Term Typically Offered: Spring only

This course provides students with experiential learning in an outdoor setting with the aim of developing and implementing outdoor education activities for children grades 4-7. By engaging in the practices of mindfulness and ecotherapy, students will gain awareness and appreciation for the outdoors. Students will also gain knowledge on how to implement science-focused activities that incorporate the Next Generation Science Standards and California's Environmental Principles and Concepts while incorporating Social Emotional Learning Principles and Standards.

Note: Students will be required to attend the field site during scheduled class meeting times and complete fieldwork clearance paperwork.

Credit/No Credit

EDUC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects designed especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and Department Chair.

Credit/No Credit

BA in Child and Adolescent Development (Early Development, Care, and Education)

Units required for Major: 52
Total units required for BA: 120

Program Description

The Child and Adolescent Development concentration in Early Development, Care and Education seeks to prepare students to understand and apply developmental perspectives and engage in ethical and reflective practices working with young children from birth through 8 years of age and their families.

This concentration is appropriate for students interested in working with diverse groups of young children and families in early childhood settings including early care and preschool settings and/or as preparation for advanced degree and professional programs. Upon completion of the BA in Early Development, Care, and Education, graduates are eligible for the Child Development Teacher Permit.

This concentration offers core curricula and fieldwork in early childhood development and pedagogy while highlighting family engagement in the context of family, culture, language, and society. Substantive training in language acquisition and literacy for early childhood Dual Language Learners and their families is embedded within the concentration. Students will be able to utilize developmental research, theory, and fieldwork in early childhood development settings to engage, support and improve their pedagogical practice working in early childhood settings.

A grade of "C-" or higher is required for all coursework in the Child and Adolescent Development major.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Required Foundation Courses (10 Units)</td>
<td></td>
</tr>
<tr>
<td>CHAD 101</td>
<td>Career and Major Exploration in Child and Adolescent Development</td>
<td>2</td>
</tr>
<tr>
<td>CHAD 123</td>
<td>Qualitative Methods in Human Development ¹</td>
<td>4</td>
</tr>
<tr>
<td>CHAD 133</td>
<td>Quantitative Methods in Human Development ¹</td>
<td>4</td>
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<tr>
<td></td>
<td>Required Core Courses (18 Units)</td>
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<tr>
<td>CHAD 131</td>
<td>Language Development</td>
<td>3</td>
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<td>CHAD 135</td>
<td>Culture and Human Development</td>
<td>3</td>
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<tr>
<td>CHAD 137</td>
<td>Cognitive Development</td>
<td>3</td>
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<tr>
<td>CHAD 138</td>
<td>Social and Emotional Development</td>
<td>3</td>
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<tr>
<td>CHAD 156</td>
<td>Child and Adolescent Development in Context</td>
<td>3</td>
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<tr>
<td>CHAD 190</td>
<td>Capstone in Child and Adolescent Development</td>
<td>3</td>
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<tr>
<td></td>
<td>Required concentration courses (24 Units)</td>
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<tr>
<td>CHAD 23</td>
<td>Observation and Assessment in Child Development</td>
<td>3</td>
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<tr>
<td>CHAD 35</td>
<td>Child and Adolescent Development ²</td>
<td>3</td>
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<tr>
<td>CHAD 35E</td>
<td>Early Childhood Field Experience</td>
<td>3</td>
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<tr>
<td>CHAD 134</td>
<td>Development of Young Children as Mathematical and Scientific Thinkers</td>
<td>3</td>
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<tr>
<td>CHAD 136</td>
<td>Developmental Experiences, Methods and Curriculum</td>
<td>3</td>
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<tr>
<td>CHAD 139</td>
<td>Educational Play: Theory and Practice</td>
<td>3</td>
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<tr>
<td>CHAD 150</td>
<td>Literacy Development for Monolingual and Multilingual Children</td>
<td>3</td>
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<tr>
<td>CHAD 191</td>
<td>Early Childhood Education Practicum</td>
<td>3</td>
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<td></td>
<td>Total Units</td>
<td>52</td>
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</tbody>
</table>

¹ CHAD 123 and CHAD 133 are not recommended to be taken in the same semester.
### General Education Requirements

#### Code | Title | Units
---|---|---
Area A: Basic Subjects (9 Units)
A1 | Oral Communication | 3
A2 | Written Communication | 3
A3 | Critical Thinking | 3
Area B: Physical Universe and Its Life Forms (7-13 Units)
B1 | Physical Science | 3
B2 | Life Forms | 3
B3 | Lab (Note: Lab experience to be taken with one of the following: 1
B1, B2 or B5) | 0 - 3
B4 | Math Concepts | 0 - 3
Area B: Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. | 0 - 3
Area C: Arts and Humanities (9-12 Units)
C1 | Arts | 3
C2 | Humanities | 3
C1/C2 | Area C Course | 3
Area D: The Individual and Society (6-9 Units)
Area D Course | 3
Area D Course | 3
Area D Course | 0
Area D Course - Take upper-division course to complete Area & upper division requirements. | 0 - 3
Area E: Understanding Personal Development
Area E Course | 2

**Total Units:** 31-43

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2 Required in Major; also satisfies GE.

3 Department offers students a "select from the following" option:
   - If student chooses to take STAT 1, they will meet Area B4.

4 Department offers students a "select from the following" option:
   - If student chooses to take CHAD 143, they will meet Area B5.
   - If student chooses to take CHAD 141 or EDUC 121, they will meet upper division Area C.
   - If student chooses to take ANTH 101, CHAD 145, EDUC 165, ETHN 100, or SWRK 102, they will meet upper division Area D.

### Graduation Requirements

#### Code | Title | Units
---|---|---
Graduation Requirements (required by CSU) (3-9 Units)
American Institutions: U.S. History | 0 - 3
American Institutions: U.S. Constitution & CA Government | 3
Writing Intensive (WI) | 0 - 3
Graduation Requirements (required by Sacramento State) (9 Units)
English Composition II | 3
Race and Ethnicity in American Society (RE) | 0
Foreign Language Proficiency Requirement | 6

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Department offers students a "select from the following" option:
   - If student chooses to take ANTH 101, they will meet the U.S. History graduation requirement.

3 Department offers students a "select from the following" option:
   - If student chooses to take CHAD 145, EDUC 121, EDUC 165, or ETHN 100, they will meet the Writing Intensive (WI) graduation requirement.

4 Required in Major; also satisfies Graduation Requirement.

5 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

### BA in Child and Adolescent Development

#### Educational Contexts

Units required for Major: 48-49
Total units required for BA: 120

#### Program Description

Child and Adolescent Development is the study of the biological, physical, socio-emotional, and cognitive growth and development of the child from conception through emerging adulthood. Using theory, empirical research, and practice, this rigorous academic program prepares students to work as agents of social change with diverse populations of children, adolescents, emerging adults, and families in a variety of areas, including education, advocacy, research, policy, counseling, and/or other settings.

Students earning the BA in Child and Adolescent Development with a concentration in Educational Contexts will be able to utilize developmental research and theory in their teaching practices to support student learning in various educational contexts. This concentration is appropriate for students interested in working with individuals from
Program Requirements

Required Foundation Courses (10 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAD 101</td>
<td>Career and Major Exploration in Child and Adolescent Development</td>
<td>2</td>
</tr>
<tr>
<td>CHAD 123</td>
<td>Qualitative Methods in Human Development</td>
<td>4</td>
</tr>
<tr>
<td>CHAD 133</td>
<td>Quantitative Methods in Human Development</td>
<td>4</td>
</tr>
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</table>

Required Core Courses (18 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHAD 131</td>
<td>Language Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 135</td>
<td>Culture and Human Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 137</td>
<td>Cognitive Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 138</td>
<td>Social and Emotional Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 156</td>
<td>Child and Adolescent Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 190</td>
<td>Capstone in Child and Adolescent Development</td>
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Required concentration courses (20-21 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHAD 35</td>
<td>Child and Adolescent Development</td>
<td>3</td>
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<tr>
<td>CHAD 35F</td>
<td>Human Development and Elementary Field Experience</td>
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</tr>
<tr>
<td>or CHAD 35E</td>
<td>Early Childhood Field Experience</td>
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</tr>
<tr>
<td>CHAD 136</td>
<td>Developmental Experiences, Methods and Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 150</td>
<td>Literacy Development for Monolingual and Multilingual Children</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 100A</td>
<td>Educating Students with Disabilities in Inclusive Settings</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 100B</td>
<td>Educating Students with Disabilities in Inclusive Settings Lab</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 170</td>
<td>Introduction to Bilingual Education: Policies, Principles, Programs, and Practices</td>
<td>3</td>
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</table>

Education Elective: Choose from list

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 133</td>
<td>Art Education for Children</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 141</td>
<td>History of Childhood: International and Interdisciplinary Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 142</td>
<td>Development of Learning and Memory</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 143</td>
<td>Mind and Brain in Developmental Context</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 145</td>
<td>Controversial Issues in Childhood Development, Education, and Social Policy</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 147</td>
<td>Influences of Public Policy on Children &amp; Adolescents</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 157</td>
<td>Infant and Toddler: Development and Care</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 172</td>
<td>Identity Development</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 120</td>
<td>Literature For Children</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 121</td>
<td>Multicultural Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 124A</td>
<td>Tutoring Children in Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 125A</td>
<td>Tutoring Children in Reading</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 127A</td>
<td>Field Experience in After School STEM Programs</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 158</td>
<td>Latinas/os/x in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 160</td>
<td>Urban Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 165</td>
<td>Sex Role Stereotyping in American Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 169</td>
<td>Cross-Cultural Bridges: A Humanist Approach to Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 172</td>
<td>Introduction to Hmong Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 173</td>
<td>Hmong History and Culture</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 175A</td>
<td>Pedagogy and Academic Language Skills in Spanish for Bilingual Educators (Multiple Subjects)</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 101</td>
<td>Becoming an Education Specialist</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 119</td>
<td>Legal and Social Foundations of Inclusive Education</td>
<td>3</td>
</tr>
<tr>
<td>KINS 172</td>
<td>Movement Education</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 136</td>
<td>School Health Education</td>
<td>3</td>
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</tbody>
</table>

Specialization options

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (7-13 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area C: Arts and Humanities (9-12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1 - Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>C1/C2 - Area C Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

1 CHAD 123 and CHAD 133 are not recommended to be taken in the same semester.
2 Course also satisfies General Education (GE)/Graduation Requirement.
BA in Child and Adolescent Development (Social and Community Contexts)

Units required for Major: 49
Total units required for BA: 120

Program Description
Child and Adolescent Development is the study of the biological, physical, socio-emotional, and cognitive growth and development of the child from conception through emerging adulthood. Using theory, empirical research, and practice, this rigorous academic program prepares students to work as agents of social change with diverse populations of children, adolescents, emerging adults, and families in a variety of areas, including education, advocacy, research, policy, counseling, and/or other settings.

The concentration in Social and Community Contexts is appropriate for students interested in working with diverse groups of children, adolescents, emerging adults, and families in community, social, government or counseling settings and/or for advanced degree and professional programs.

The concentration in Social and Community Contexts seeks to prepare students to support developmental trajectories of children, adolescents, and emerging adults through application of theory and research into practice with diverse community settings. This concentration fosters students’ abilities to apply ecological perspectives and engage in ethical and reflective practices within the local and professional community. Graduates will be able to communicate developmental research to various audiences and collaborate with community stakeholders that provide resources to support the strengths of diverse individuals.

C- or higher is required for all coursework in the Child and Adolescent Development major

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAD 101</td>
<td>Career and Major Exploration in Child and Adolescent Development 2</td>
<td></td>
</tr>
<tr>
<td>CHAD 123</td>
<td>Qualitative Methods in Human Development 1</td>
<td>4</td>
</tr>
<tr>
<td>CHAD 133</td>
<td>Quantitative Methods in Human Development 1</td>
<td>4</td>
</tr>
<tr>
<td>CHAD 131</td>
<td>Language Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 135</td>
<td>Culture and Human Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 156</td>
<td>Child and Adolescent Development in Context</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 137</td>
<td>Cognitive Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 138</td>
<td>Social and Emotional Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 190</td>
<td>Capstone in Child and Adolescent Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 30</td>
<td>Human Development 2</td>
<td>3</td>
</tr>
<tr>
<td>or CHAD 35</td>
<td>Child and Adolescent Development</td>
<td></td>
</tr>
<tr>
<td>CHAD 30C</td>
<td>Human Development and Fieldwork in Community and Social Contexts 5</td>
<td>3</td>
</tr>
<tr>
<td>or CHAD 35E OI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHAD 146</td>
<td>Fostering Healthy Youth Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Institutions: U.S. History 0 - 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI) 0 - 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (9 Units) 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition II 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE) 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement 6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103). Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

1 Students interested in elementary teaching are strongly urged to select courses that will assist in preparation for the CSET examination (see Subject Matter waiver program).

2 Area B5 fulfilled by Math 107A if enrolled in Subject Matter waiver program.

3 Students enrolled in the Subject Matter waiver program are exempt from the 9 unit lower division requirement in Area C.

4 Area C1 fulfilled by ART 133 if enrolled in Subject Matter waiver program.

5 MUSC 101 and HIST 132 together satisfy Area C unit requirements if enrolled in the Subject Matter waiver program.

6 Satisfied by the major, counts for GE.

7 If take STAT 1 or MATH 17, counts as a major elective.
CHAD 147 Influences of Public Policy on Children & Adolescents 3

Developmental Depth Electives (6 Units)
Select 6 units from the approved Developmental Depth Elective List 3 6

General Electives (3 Units)
Select 3 units of approved General Electives List 4 3

Total Units 49

1 CHAD 133 and CHAD 123 are not recommended to be taken in the same semester.
2 Course also satisfies General Education (GE)/Graduation Requirement.
3 Students are required to select an additional 6 units of approved electives to gain expertise in specific areas of developmental theory and/or application by choosing from the approved "Developmental Depth Electives" list.
4 Students are required to select an additional 3 units of approved electives to gain a greater understanding of development in social and community settings from courses across the university. Students may select courses from an approved list of "General Elective List".
5 CHAD 30C is recommended for the Social and Community Contexts concentration, while CHAD 35E and CHAD 35F are recommended for the Educational Contexts concentration.

Developmental Depth Elective List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAD 139</td>
<td>Educational Play: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 143</td>
<td>Mind and Brain in Developmental Context</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 157</td>
<td>Infant and Toddler: Development and Care</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 142</td>
<td>Development of Learning and Memory</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 172</td>
<td>Identity Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 130</td>
<td>Parent Education</td>
<td>3</td>
</tr>
</tbody>
</table>

1 If a student chooses to take this course, it will also meet Area B5.

General Elective List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>Cultural Diversity</td>
<td>1</td>
</tr>
<tr>
<td>ART 133</td>
<td>Art Education for Children</td>
<td></td>
</tr>
<tr>
<td>CHAD 136</td>
<td>Developmental Experiences, Methods and Curriculum</td>
<td></td>
</tr>
<tr>
<td>CHAD 141</td>
<td>History of Childhood: International and Interdisciplinary Perspectives</td>
<td>1</td>
</tr>
<tr>
<td>CHAD 145</td>
<td>Controversial Issues in Childhood Development, Education, and Social Policy (Pending Approval, CHDV 145 will meet WI requirement)</td>
<td>1</td>
</tr>
<tr>
<td>CHAD 153</td>
<td>Apprenticeship in Advanced Child Development</td>
<td></td>
</tr>
<tr>
<td>CHAD 157</td>
<td>Infant and Toddler: Development and Care</td>
<td></td>
</tr>
<tr>
<td>CHAD 195</td>
<td>Internship in Child &amp; Adolescent Development</td>
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</tr>
<tr>
<td>CHAD 199</td>
<td>Special Problems</td>
<td></td>
</tr>
<tr>
<td>COMS 108</td>
<td>Family Communication</td>
<td></td>
</tr>
<tr>
<td>EDUC 120</td>
<td>Literature For Children</td>
<td></td>
</tr>
<tr>
<td>EDUC 121</td>
<td>Multicultural Children's Literature</td>
<td></td>
</tr>
</tbody>
</table>

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 Cannot be used for both major electives and for the Minor in Counseling.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>Cultural Diversity</td>
<td>1</td>
</tr>
<tr>
<td>ART 133</td>
<td>Art Education for Children</td>
<td></td>
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<tr>
<td>CHAD 136</td>
<td>Developmental Experiences, Methods and Curriculum</td>
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<tr>
<td>CHAD 141</td>
<td>History of Childhood: International and Interdisciplinary Perspectives</td>
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<tr>
<td>CHAD 145</td>
<td>Controversial Issues in Childhood Development, Education, and Social Policy (Pending Approval, CHDV 145 will meet WI requirement)</td>
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<tr>
<td>CHAD 153</td>
<td>Apprenticeship in Advanced Child Development</td>
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<tr>
<td>CHAD 157</td>
<td>Infant and Toddler: Development and Care</td>
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<td>CHAD 195</td>
<td>Internship in Child &amp; Adolescent Development</td>
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<tr>
<td>CHAD 199</td>
<td>Special Problems</td>
<td></td>
</tr>
<tr>
<td>COMS 108</td>
<td>Family Communication</td>
<td></td>
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<tr>
<td>EDUC 120</td>
<td>Literature For Children</td>
<td></td>
</tr>
<tr>
<td>EDUC 121</td>
<td>Multicultural Children's Literature</td>
<td></td>
</tr>
</tbody>
</table>

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 Cannot be used for both major electives and for the Minor in Counseling.

Area A: Basic Subjects (9 Units)
A1 - Oral Communication 3
A2 - Written Communication 3
A3 - Critical Thinking 3

Area B: Physical Universe and Its Life Forms (7-13 Units)
B1 - Physical Science 3
B2 - Life Forms 3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) 1
B4 - Math Concepts 3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. 3

Area C: Arts and Humanities (9-12 Units)
C1 - Arts 3
C2 - Humanities 3
Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU)</td>
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</tr>
<tr>
<td></td>
<td>(3-9 Units)</td>
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<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>Graduation Requirements (required by Sacramento State) (9 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Proficiency Requirement</td>
<td>6</td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

3 Department offers students a “select from the following” option:
   - If student chooses to take ANTH 101 for their general elective, they will meet the U.S. History graduation requirement.
   - If student chooses to take CHAD 145, EDUC 121, EDUC 160, or ETHN 100, they will meet the Writing Intensive (WI) graduation requirement.

4 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Deaf Studies

Units required for Major 41-44

Total units required for BA: 120

Program Description

Deaf Studies takes an interdisciplinary approach to the study of Deaf and hard-of-hearing people in American and world society. The program promotes the understanding of the Deaf community as a linguistic and cultural group and encourages students to analyze existing stereotypes and policies relating to Deaf and hard-of-hearing people in order to work both within their own communities and others in affecting change for the betterment of the Deaf and hard-of-hearing community.

Admission Requirements

There are no admission requirements, prerequisites or other criteria for admission into the BA in Deaf Studies. Students are encouraged to enter into the program with previously acquired ASL skills in order to continue and build upon their learning before going out into the field in working with Deaf people. Students need to maintain a C (or better) in all Deaf Studies major coursework in order to graduate with a degree in Deaf Studies.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses (44 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(44 Units)</td>
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<tr>
<td></td>
<td>DEAF 51 American Sign Language 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>DEAF 52 American Sign Language 2</td>
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<td>DEAF 53 American Sign Language 3</td>
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<td></td>
<td>DEAF 56 ASL Fingerspelling and Numbers</td>
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<td>DEAF 57 ASL Classifiers</td>
<td>2</td>
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<td></td>
<td>DEAF 60 Introduction to Deaf Studies</td>
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<tr>
<td></td>
<td>DEAF 154 American Sign Language 4</td>
<td>4</td>
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<td></td>
<td>DEAF 155 American Sign Language 5</td>
<td>4</td>
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<tr>
<td></td>
<td>DEAF 161 Deaf History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DEAF 162 Deaf Culture and Community</td>
<td>3</td>
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<td></td>
<td>DEAF 163 ASL Literature</td>
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<td></td>
<td>DEAF 164 Sign Language Structure and Usage</td>
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<tr>
<td></td>
<td>DEAF 166 Experiences in the Deaf Community - Dynamics of Oppression and Building Allyship</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:
BS in Career and Technical Studies

Program Description

The Bachelor of Science in Career and Technical Studies (BSCTS) is an online degree completion program designed to prepare working adults with practical, marketable skills to successfully enter new careers or advance in their current fields. The program is versatile and can be applied to a variety of disciplines. The degree can serve as a springboard to a master’s degree or as a career ladder into many professions.

This program uses instructional techniques suited to adult learners, including real world instruction and personalized academic advising. We also offer networking opportunities and accelerated programming.

The BSCTS program is offered through a partnership between the College of Continuing Education and the College of Education at Sacramento State. Students must earn a grade of C- or better in all BSCTS major courses in order to earn the degree.

The BSCTS Program requires that students have three years, full-time, paid work experience in a career technical/educational/business field.

The BSCTS Program requires that students have seven years, full-time, paid work experience in a career technical/educational/business field (or five years, full-time, paid work experience in a career technical/educational/business field and vis-

### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
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<td>3</td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (6 Units)</td>
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<tr>
<td>English Composition II</td>
<td></td>
<td>3</td>
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<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

3 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-liters/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-liters/foreign-language-requirement.html)

4 The 165 Series are rotating special topics courses -- students are required to take only one in this sequence; others may be taken as electives or in lieu of waived/transferred coursework.

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
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<tr>
<td>A1 - Oral Communication</td>
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</tr>
<tr>
<td>A2 - Written Communication</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (13 Units)</td>
<td></td>
<td></td>
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<tr>
<td>B1 - Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td></td>
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<tr>
<td>B4 - Math Concepts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td></td>
<td>3</td>
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<tr>
<td>Area C: Arts and Humanities (9 Units)</td>
<td></td>
<td></td>
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<tr>
<td>C1 - Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>C1/C2 - Area C Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area D: The Individual and Society (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
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<td>3</td>
</tr>
<tr>
<td>Area D Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
<td></td>
<td></td>
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<tr>
<td>Area E Course</td>
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<td>3</td>
</tr>
<tr>
<td>Area F: Ethnic Studies (3 Units)</td>
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<td></td>
</tr>
<tr>
<td>Area F Course</td>
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<td>3</td>
</tr>
</tbody>
</table>

Total Units: 43

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.
years, full-time, paid work experience and an associate's degree in that field). Remove

Admission to Sacramento State is required for this program. Candidates must complete general education and graduation requirements for Sacramento State and the Career and Technical Studies major.

Notes:

- In addition to the courses listed, students must receive credit through the Application for Review and Evaluation of Work Experience which will go through an evaluation process for past career technical/teaching experience and must be approved by the reviewer for the degree. Students may receive up to 30 elective units from this evaluation.

Program Requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 102</td>
<td>Foundations in Career and Technical Studies</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 103</td>
<td>Assessment and Instruction in Adult and Organizational Training</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 104</td>
<td>Teaching Issues of Diversity in Schools and Workplace</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 105</td>
<td>Advanced Instruction, Program Evaluation and Leadership in Career Technical Studies</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 106</td>
<td>Individual Growth Through the Examination of Personal Assets, Philosophies and Life Experiences</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 107</td>
<td>Designing Solutions</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 109</td>
<td>Career Guidance in Career Technical Studies</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 110</td>
<td>Current Issues in Workforce Development</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 112</td>
<td>Organizational Policies, Finance and Legislation</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 113</td>
<td>Implement Digital Technologies with Ethical Knowledge</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 114</td>
<td>Theories and Practices of Multiculturalism in Schools and Organizations</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 115</td>
<td>Improvement Science for Organizational Effectiveness</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 116</td>
<td>Methods of Inquiry in Career Technical Studies</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 118</td>
<td>Integrative Perspectives in Leadership</td>
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<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>40</strong></td>
</tr>
</tbody>
</table>

MA in Child and Adolescent Development

Total units required for MA: 30.0

Program Description

The Master of Arts in Child and Adolescent Development Program offers an opportunity for advanced study of developmental theories and their application in research and practice. Our Program emphasizes scholarly reflection on developmental issues and excellence in disciplinary forms of communication. The Program prepares students to consider the diversity of human development and to critically reflect on how to use that knowledge to work towards antiracism, equity, and inclusion in the field. Graduates of the Program will be able to apply their advanced understanding of theory and empirical research to work as agents of positive social change in a variety of settings including education, advocacy, research, policy, and/or other settings.

For further information please see the Academic Program Services Office, Eureka Hall 401, or check the College of Education's website (http://www.csus.edu/coe/academics/graduate/).

Admission Requirements

Admission as a classified graduate student in the Master of Arts in Child and Adolescent Development Program requires:

- a BA in Child and Adolescent/Human Development or a closely-related field
- minimum 3.0 GPA in the last 60 units completed;
- completion of an upper-division course in research methods (e.g., CHAD 123, CHAD 128, and/or CHAD 133, or equivalent);
- completion of an upper-division course in human development theories (e.g., CHAD 137 and/or CHAD 138, or equivalent)

Opportunity exists for conditional classification of applicants with an undergraduate major and experiences different from those listed above. This requires that students demonstrate convincingly that they are competent to pursue the degree.
Admission Procedures

All prospective graduate students, including Sacramento State graduates, must submit a University application. The application must be submitted by the deadlines stated on the College of Education and Office of Graduate Studies websites. Required application materials include:

- online application for admission;
- official transcripts from all colleges and universities attended, other than Sacramento State;
- statement describing the applicant's educational and professional background and how graduate study will advance the applicant's professional goals; and
- two academic and/or professional letters of recommendation.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/). Details about the application can be found on the application packet posted to the College of Education website.

Approximately six weeks after the posted application deadline, a decision regarding admission will be emailed to each applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0; no units with a grade lower than "B-" may apply toward the degree.

Advancement to Candidacy Procedures

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of courses in the graduate program (see Requirements) with a minimum 3.0 GPA; and
- met the Graduate writing requirement through completion of the Graduate Writing Intensive (GWI) course, CHAD 242, with a B grade or better.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student should complete the Advancement to Candidacy form after planning a degree program in consultation with a Program faculty advisor. The form must be submitted to the Graduate Coordinator and the Office of Graduate Studies for approval.

Project/Thesis or Examination Registration

Enrollment in CHAD 504 Project/Thesis course requires that the student file an Intent to Register form at least one full semester in advance of registration. For students intending to complete a project or thesis, a proposal must be approved prior to beginning the project or thesis. The proposal requires approval from the thesis/project sponsor, a second reader, and the Graduate Coordinator or Department Chair. Please see your list of deadlines and consult with a Program advisor. Additional information about CHAD theses and projects may be found in the Thesis/Project handbook on the Department web page.

Check in the Department office for the policies regarding Report in Progress ("RP") grades and continuous enrollment.

Graduation

Prior to graduation, an application for graduation must be filed with the Office of Graduate Studies. In addition, all coursework leading to the Master's degree must be completed within a seven-year period.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pre or Corequisites (6 Units)</td>
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<tr>
<td></td>
<td>Select one of the following:</td>
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<tr>
<td>CHAD 123</td>
<td>Qualitative Methods in Human Development</td>
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<tr>
<td>CHAD 128</td>
<td>Combined Research Methods in Human Development</td>
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<tr>
<td>CHAD 133</td>
<td>Quantitative Methods in Human Development</td>
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<tr>
<td></td>
<td>Select one of the following:</td>
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<tr>
<td>CHAD 137</td>
<td>Cognitive Development</td>
<td>3</td>
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<tr>
<td>CHAD 138</td>
<td>Social and Emotional Development</td>
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<tr>
<td></td>
<td>Total Units</td>
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<tr>
<td></td>
<td>Required Foundation Courses (12 Units)</td>
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<tr>
<td>CHAD 200</td>
<td>Proseminar in Child and Adolescent Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 242</td>
<td>Theoretical Approaches to Development</td>
<td>3</td>
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<tr>
<td>CHAD 247</td>
<td>Theoretical and Applied Perspectives on Cross-cultural Development</td>
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<tr>
<td></td>
<td>Select one of the Methods courses:</td>
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<tr>
<td>CHAD 250</td>
<td>Quantitative Research Methods</td>
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<tr>
<td>CHAD 258</td>
<td>Qualitative Research Methods</td>
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<tr>
<td></td>
<td>Core Course Requirements (9 Units)</td>
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<td></td>
<td>Select three of the following:</td>
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<tr>
<td>CHAD 210</td>
<td>Seminar in Social Development</td>
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<tr>
<td>CHAD 211</td>
<td>Seminar in Cognitive Development</td>
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<tr>
<td>CHAD 245</td>
<td>Selected Topics in Developmental Theory</td>
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</tr>
<tr>
<td>CHAD 246</td>
<td>Motivation and Learning in Children</td>
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<tr>
<td>CHAD 248</td>
<td>Curriculum and Instruction</td>
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<td>CHAD 249</td>
<td>Language Processes in Development</td>
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<tr>
<td>CHAD 250</td>
<td>Quantitative Research Methods</td>
<td></td>
</tr>
<tr>
<td>CHAD 253</td>
<td>Apprenticeship in Advanced Child Development</td>
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<tr>
<td>CHAD 258</td>
<td>Qualitative Research Methods</td>
<td></td>
</tr>
<tr>
<td>CHAD 295</td>
<td>Practicum in Child Development</td>
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<tr>
<td>EDS 290</td>
<td>Issues in Early Childhood Education for Children with Disabilities</td>
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<tr>
<td></td>
<td>Elective (3 Units)</td>
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<td>Select 3 units in consultation with an advisor</td>
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<tr>
<td></td>
<td>Culminating Experience (6 Units)</td>
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<tr>
<td>CHAD 290</td>
<td>Writing a Proposal</td>
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<tr>
<td>CHAD 504</td>
<td>Culminating Experience in Child Development: Thesis or Project</td>
<td>3</td>
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<tr>
<td></td>
<td>Total Units</td>
<td>30</td>
</tr>
</tbody>
</table>

1 Course may not count as both a Foundation and Core.

Note: Credit for CHAD 504 is given upon completion of a thesis, project, or other approved culminating experience. Open only to graduate students.
American Sign Language and Deaf Studies takes an interdisciplinary approach to the study of deaf and hard-of-hearing people in American and world society. The program promotes the understanding of the deaf community as a linguistic and cultural group and encourages students to analyze existing stereotypes and policies relating to deaf and hard-of-hearing people in order to work both within their own communities and others in affecting change for the betterment of the deaf and hard-of-hearing community.

With an ASL and Deaf Studies Minor, students may obtain entry-level jobs in settings working with the deaf such as residential supervisor, classroom aide, vocational trainer, and much more. Students may also combine an ASL and Deaf Studies Minor with a related major field of study such as education, counseling, audiology and speech therapy for a more well-rounded grounding in the issues relating to the deaf and hard-of-hearing in their field. Students in fields which are not specifically deaf-related such as nursing, law, computer engineering, and many more may also experience an edge in gaining employment, whether in deaf-related settings or not, with a minor in ASL and Deaf Studies compared to those without similar coursework or experience.

Further, students having completed the ASL and Deaf Studies Minor may be able to waive similar coursework at other universities with specialized fields of study relating to deafness that may not be offered in the Sacramento region.

Minor in Bilingual/Multicultural Education

Units required for Minor: 12

Program Description

In addition to University-based courses, the minor can include a field-based course in an educational setting with high numbers of children and adolescents from diverse backgrounds. Students develop a coherent course of study in education and diversity with a Bilingual/Multicultural Education (BMED) Advisor and approval from the BMED Chair. This minor is especially recommended for students seeking the bilingual authorization for their teacher credential offered through the BMED Multicultural/Multilingual Teacher Preparation Center.

Program Requirements

The Education Minor offered by the Bilingual/Multicultural Education Department (BMED) consists of 12 units or more of upper division education courses that focus on diversity and education. Courses in the minor offer students the opportunity to explore the issues of race, culture, language, class, gender, and ability/disability, and their relationship to education.
Minor in Counseling

Units required for Minor: 19

Program Description
The Counseling minor consists of 10 upper division units of Child and Adolescent Development coursework and 9 upper division units of Counseling coursework (EDUC). Students will critically examine the theory and research on social and emotional development, and specifically explore the role of the family context in developmental processes, with specific attention to dynamic family processes within the larger society. Students will explore the career of counseling, and the cultural, social, and emotional factors that contribute to unhealthy psychological adjustment and abnormal behavior within developmental and social contexts.

Minimum Grade Requirement
A grade of "C-" or higher is required for all coursework in the Counseling minor.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAD 133</td>
<td>Quantitative Methods in Human Development</td>
<td>2</td>
</tr>
<tr>
<td>CHAD 156</td>
<td>Child and Adolescent Development in Context</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 138</td>
<td>Social and Emotional Development</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 155</td>
<td>Introduction to Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 156</td>
<td>Power, Privilege and Self Identity in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 157</td>
<td>Child and Family Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 160</td>
<td>Urban Education</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 165</td>
<td>Sex Role Stereotyping in American Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 170</td>
<td>Introduction to Bilingual Education: Policies, Principles, Programs, and Practices</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 171</td>
<td>Bilingualism in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 172</td>
<td>Introduction to Hmong Literacy</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 100</td>
<td>Ethnic America</td>
<td>3</td>
</tr>
<tr>
<td>FACS 156</td>
<td>Family Communication</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 136</td>
<td>School Health Education</td>
<td>2</td>
</tr>
<tr>
<td>HRS 161</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>KINS 172</td>
<td>Movement Education</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SWRK 102</td>
<td>Crosscultural Theory and Practice: Issues of Race, Gender and Class</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Students majoring in Child and Adolescent Development and in the Counseling minor may overlap a maximum of 10 units (including electives) between the minor and major. Consult with a major advisor for more information. Students may take both CHAD 123 and CHAD 133 to meet CHAD 128 requirement.

1 For non Child and Adolescent Development majors, CHAD 128 may be substituted for CHAD 133

Minor in Social Justice in Education

Units Required for Minor: 18

The Minor in Social Justice in Education focuses on the theoretical, historical, and cultural constructs of power and oppression and the ways they intersect within education. The courses address current issues regarding race, ethnicity, culture, language, socio-economic status, abilities, and gender diversity. The minor underscores how education can be transformative and used as a tool to eradicate oppression and foster perspectives that promote social justice in education. The goal of the Minor is to empower students to teach or work towards building an antiracist, equitable, and inclusive place in education.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 1</td>
<td>Education, Equity &amp; American Society</td>
<td>2</td>
</tr>
<tr>
<td>CHAD 141</td>
<td>History of Childhood: International and Interdisciplinary Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 145</td>
<td>Controversial Issues in Childhood Development, Education, and Social Policy</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 121</td>
<td>Multicultural Children’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 160</td>
<td>Urban Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 165</td>
<td>Sex Role Stereotyping in American Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 169</td>
<td>Cross-Cultural Bridges: A Humanist Approach to Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 171</td>
<td>Bilingualism in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>DEAF 60</td>
<td>Introduction to Deaf Studies</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 128</td>
<td>Education and Communication in Korean Society</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 158</td>
<td>Latinas/os/x in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 172</td>
<td>Introduction to Hmong Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 173</td>
<td>Hmong History and Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

Professional Development in Education (Choose two of the following courses):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 100A</td>
<td>Educating Students with Disabilities in Inclusive Settings</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 100B</td>
<td>Educating Students with Disabilities in Inclusive Settings Lab</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 124A</td>
<td>Tutoring Children in Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 124B</td>
<td>Tutoring Children in Mathematics: Practicum</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 125A</td>
<td>Tutoring Children in Reading</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 125B</td>
<td>Tutoring Children in Reading Practicum</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 127A</td>
<td>Field Experience in After School STEM Programs</td>
<td>3</td>
</tr>
</tbody>
</table>
### Multiple Subject Matter Waiver

Units required for Waiver: **80**

#### Program Description

The Multiple Subject Matter Waiver is designed to meet the California Commission on Teacher Credentialing (CTC) multiple subject matter requirement for students entering a California Multiple Subject or Special Education teaching credential program. The subject matter requirement can be met either through a subject matter program approved by CTC or by taking a state approved content exam (currently the California Subject Exam for Teachers, the CSET).

Subject matter programs are not degrees or concentrations; instead they are a series of courses that allow a student to meet the requirements for admission to a teaching credential program. Subject matter coursework in the Multiple Subject Matter Waiver meets CSET requirements by offering specific curricula in seven different subjects: Language and Literature; Mathematics; Natural and Physical Sciences; Social Sciences and Humanities; the Arts; Human Development; and Physical Education.

In order to meet the Multiple Subject Matter Waiver, all courses must be completed with a grade of “C-” or better. Students must also complete a BA or BS degree (with any major) to enter a teaching credential program. The Subject Matter Waiver is open to all majors. The coursework for the multiple subject matter waiver is embedded within the Liberal Studies Major. To teach public school in California, students must also complete a teaching credential program.

The Multiple Subject Matter Waiver is most appropriate for students who intend to pursue an elementary/middle school (multiple subjects) or special education teaching credential. Students who intend to pursue a multiple subject or special education teaching credential should see a faculty advisor or the department chair in the department of their academic major. It is recommended that students pursuing the Waiver obtain advising early as it is critical that their subject matter coursework be carefully planned and coordinated to include the required subject matter program courses.

Note: Students taking the Multiple Subject Matter Waiver may have GE substitutions available, depending on their major requirements. See a major advisor to ensure all GE/GR requirements are met.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 5</td>
<td>The Communication Experience</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 5</td>
<td>Accelerated Academic Literacies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 20</td>
<td>College Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 116B</td>
<td>Children's Literary Classics</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 131</td>
<td>Language Development</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1</td>
<td>Essentials Of Government</td>
<td>3</td>
</tr>
<tr>
<td>HIST 17A</td>
<td>United States History, 1607-1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 50</td>
<td>World History I: to 1500</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subject Matter Area One (33 Units)**

**Reading, Language, and Literature**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 132</td>
<td>Topics In World History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 187</td>
<td>Topics in United States History 1600-1900</td>
<td>3</td>
</tr>
<tr>
<td>LBST 110</td>
<td>California Studies</td>
<td>3</td>
</tr>
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</table>

**Subject Matter Area Two (27 Units)**

**Math**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 17</td>
<td>An Introduction to Exploration, Conjecture, and Proof in Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107A</td>
<td>Fundamental Mathematical Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107B</td>
<td>Fundamental Mathematical Concepts</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subject Matter Area Three (20 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 136</td>
<td>School Health Education</td>
<td>2</td>
</tr>
<tr>
<td>KINS 172</td>
<td>Movement Education</td>
<td>3</td>
</tr>
</tbody>
</table>

**Visual and Performing Arts**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 133</td>
<td>Art Education for Children</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 101</td>
<td>Experiences In Music</td>
<td>3</td>
</tr>
<tr>
<td>THEA 118</td>
<td>Children's Theatre</td>
<td>3</td>
</tr>
</tbody>
</table>

**Human Development**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHAD 35</td>
<td>Child and Adolescent Development</td>
<td>3</td>
</tr>
<tr>
<td>CHAD 35F</td>
<td>Human Development and Elementary Field Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total Units

80

## College of Engineering and Computer Science

### Student Success Center Services

The College of Engineering and Computer Science Student Success Center (SSC) supports students with their academic, career, and professional development. Holistic support services are provided through major and GE advising, career advising, and by connecting students to other resources on campus. The SSC also offers support through the MESA Engineering Program (MEP) and free tutoring to all ECS majors.

Santa Clara Hall - 1200 Wing  
Phone: (916) 278-5426  
ecs-ssc@csus.edu

### Advising Services

The College of Engineering and Computer Science’s Advising Office is dedicated to engaging with students to improve student success and enhance each student’s academic and career aspirations through meaningful, customized advising services. The Advising Office improves the student experience by facilitating access to needed resources and expands student opportunities to achieve academic success.

The Advising Office offers and staff can provide assistance with the following advising-related topics:
Cooperative Education Program

The College endorses cooperative education (co-op) as a means to enrich a student’s education. Cooperative education relates theory to practice, provides "learning by doing" and connects students with industry. The co-op program provides periods of university study with paid work experience in the student’s major field of study. Students are encouraged to participate in the co-op plan by completing at least one four- to six-month work period before obtaining their degree. Credit is granted for successful completion of the co-op requirements. Students interested in the Cooperative Education Program should apply in 1204 Santa Clara Hall or by emailing ecs-coop@csus.edu.

ECS Internship and Career Services Office
Santa Clara Hall, Room 1204
(916) 278-7091
ecs-coop@csus.edu

MESA Engineering Program (MEP)

Participation in the MESA Engineering (MEP) increases the probability that students will be successful in their engineering coursework. Focusing on the recruitment, retention, and graduation of highly motivated students from educationally and financially disadvantaged backgrounds, MEP emphasizes participation by students from communities with low rates of enrollment in engineering majors.

MEP provides an on-campus home for its members with a large 24 hours-a-day study center that encourages study groups. MEP provides professional development, a freshman orientation course, and counseling. The program assists in the coordination of tutoring, counseling, and professional development services for all students in the College of Engineering and Computer Science.

Santa Clara Hall, Room 1207
(916) 278-6699
ecs-mep@csus.edu

ECS Peer-Assisted Learning (PAL) Program

The College of Engineering and Computer Science’s Peer-Assisted Learning (PAL) is a curricular structure that encourages cross-year support among students. PAL encourages students to learn cooperatively under the guidance of trained students, called PAL Facilitators, who have been very successful in the same course they facilitate, and have been highly trained in group facilitation and pedagogy.

PAL classes are optional 1-unit courses available for students enrolled in gateway engineering courses. During PAL sessions, students who get stuck and ask a question will be asked to dig deep for what they understand on a basic level and then gently guided (via more questions) to higher and higher levels of competence, until they are able to solve the original problem on their own. Students should take a PAL to optimize their performance in their course, enhance their confidence with the material, and engage with other students.

Additional information about the program and how to enroll can be found on the ECS PAL Website (https://www.csus.edu/college/engineering-computer-science/student-success/pal.html).

Troy Topping, Director
Riverside Hall, Room 4024
(916) 278-6658
ecs-pal@csus.edu

Computing, Communications, and Academic Technology Services

The College of Engineering and Computer Science’s Computing, Communications, and Academic Technology Services (ECS CCATS) team is the Information and Academic Technology (IT/AT) unit for the College. ECS CCATS is a part of the Dean’s Office and serves all faculty, staff and students in the College. It is the College unit charged with implementing and supporting the ECS Information Technology Plan, and provides comprehensive IT/AT support to the College.

This support includes managing hardware, software, networking, and consulting for both academic and research computing and communications. ECS CCATS manages all ECS computing facilities, including servers for academic computing, databases, learning
management systems, cloud computing, and web hosting, as well as forty-two Windows 10 or Linux workstation-equipped laboratories containing 600+ workstations.

ECS CCATS supports physical and virtual servers, running Linux or Windows Server. College servers are available 24/7 from on campus and off campus via VPN access. The College also maintains numerous multimedia classroom facilities and a Zoom-based teleconference facility.

General building hours for all labs are 8 a.m. – 5 p.m., Monday through Friday. However, ECS students can access buildings and labs 24/7 via a key fob. One of these labs also houses the ECS CCATS Help Desk, which is staffed with student consultants and provides direct, on-call faculty, staff, and student support. Multiple remotely accessible labs are also supported and available.

Students and faculty who need assistance with computing, communication, or academic technology issues can contact ECS CCATS directly at the Help Desk or visit the offices of our staff which are open and directly accessible to everyone in the College. In addition, there is on-line help available through the ECS CCATS web page (https://www.csus.edu/college/engineering-computer-science/computing-services/).

The Director of ECS Computing, Communications, and Academic Technology Services is an Operating Systems Analyst – Expert, who leads a staff of five and reports directly to the College Dean. The support staff team consists of three Operating Systems Analysts, one Analyst/Programmer, and one Information Technology Consultant. In addition, there are approximately ten student consultants monitoring and staffing the Help Desk and open labs.

Lynne Koropp, Director
Riverside Hall, Room 2028
(916) 278-3547
lynne@csus.edu

Center for Information Assurance and Security

The College of Engineering and Computer Science’s Center for Information Assurance and Security (CIAS) was established in 2005. The mission of the center is to advance knowledge of information assurance and security practices through:

• Education, training, and awareness programs in information assurance and security issues and practices;
• Applied research in information assurance and security;
• Developing interdisciplinary programs in information assurance and security;
• Outreach programs to assist our community, including community colleges, K-12 schools, industry, and government in information assurance and security issues;
• Forming collaborations with other education, research, industry, and government institutions.

CIAS has been designated as a National Center of Academic Excellence (CAE) in Information Assurance Education (CAE-IA) since 2007. This designation is jointly sponsored by the National Security Agency (NSA) and Department of Homeland Security (DHS). The designation has to be renewed every five years, to ensure the designated institution meets stringent criteria with respect to curriculum, faculty, research, and institution-wide commitment to information assurance practices and education. CIAS has recently been awarded its re-designation as a CAE in Cyber Defense (CAE-C) for the academic years 2017-2022. The CAE designation was one of the key factors for the National Science Foundation (NSF) to award Sacramento State over $4 million in funding as part of the CyberCorps® Scholarship for Service (SFS) program to support students in computer science or computer engineering to become cybersecurity specialists for the academic years 2010-2014, and again 2015-2021.

Jun Dai, Director
Center for Information Assurance and Security
Riverside Hall, Room 5060
cias@csus.edu

Office of Water Programs

The Office of Water Programs (OWP) is a self-supported program providing cost-effective solutions for protecting and enhancing water resources, public health, and the environment. OWP develops and publishes the industry standard in drinking water and wastewater training materials and provides valuable science-based applied research services in California and elsewhere for a variety of water resource and water quality disciplines, including drinking water, wastewater, stormwater, watershed planning, soils, and groundwater.

Since 1972, OWP has provided high-quality training programs for operators of water treatment plants, water distribution systems, wastewater collection systems, and municipal/industrial wastewater treatment and reclamation facilities, as well as for pretreatment facility inspectors, environmental compliance inspectors, and utility managers. As an internationally recognized training leader, OWP publishes a continually evolving library of print, electronic, and online training materials to meet the changing needs of water industry operators, managers, and administrators seeking professional development. For more than two decades, OWP has also provided training, technical assistance, and applied research services for stormwater, watershed planning, soils, and groundwater disciplines. OWP collaborates with faculty members in economics, business, engineering, and the sciences to complete its funded projects. OWP’s experience spans the areas of stormwater program management, stormwater low impact development (LID), water conservation, technical assistance to small disadvantaged communities, and programming and software tool development using geographic information system (GIS) and other data analysis applications.

OWP also serves as the U.S. Environmental Protection Agency (USEPA) Region 9 Environmental Finance Center (EFC), which supports the region’s rural, disadvantaged, and tribal communities in financial planning and asset management to better enable funding environmental and public health services in the short term and to better adapt to regulatory, technological, and resource changes in the future.

Both the training and research programs employ student assistants who gain valuable skills and experience under the direction and mentorship of water sector professionals. OWP also offers competitive fellowship opportunities for graduate students in many disciplines.

Ramzi J. Mahmood, Director
Modoc Hall, Room 1001
(916) 278-6142
Office of Water Programs Website (http://www.owp.csus.edu)
Preparation

High School

Students entering as freshmen build primarily upon the foundations established in high school: mathematics, physical sciences, computer programming and oral and written communication. High school study for all majors should include:

- Algebra: 2 years
- Plane Geometry: 1 year
- Trigonometry: 1/2 year
- Chemistry: 1 year
- Physics: 1 year
- Mechanical Drawing: 1 year (only for civil and mechanical engineering majors)

Computer literacy and programming, analytic geometry and calculus are desirable.

Transfer

Students transferring from community colleges with at least 65 transferable units including physics, calculus and differential equations, chemistry, computer programming and lower division engineering courses as listed in this catalog for each program, may complete their engineering, computer science or construction management bachelor of science degree programs within four semesters of additional full-time study. Articulation agreements with most of the community colleges in Northern California state exact course equivalencies. Community college counseling staff are prepared to answer questions regarding articulation. Students planning to transfer from community colleges or four-year institutions with upper division standing are advised to parallel closely the appropriate California State University, Sacramento engineering, construction management or computer science program in the lower division. Completion of General Education (GE) requirements before transfer is NOT recommended or desirable, but rather, emphasis should be placed on taking prescribed basic science and engineering courses. Students should be aware that some of the major requirements also satisfy GE requirements.

Professional Development

Engineering, computer science and construction management students are encouraged to become acquainted with the functions and the branches within their fields to evaluate their own interests and abilities more carefully. For this purpose, student chapters of national organizations have been established in the college. It is to the student's advantage to become affiliated with the technical society in their interest area soon after enrolling in the university. Students with high scholastic achievement may be invited to join Tau Beta Pi, the national engineering honor society or Upsilon Pi Epsilon, the national computer science honor society.

Whenever possible, students should consider summer and part-time employment in a professional organization or an industry related to their major interest. Students are encouraged to take advantage of internship and career services. (See above.) This employment will provide the undergraduate student with practical experience in real world problems. The College's Internship and Career Services Office, working with the faculty and local industry, assists students in securing employment.

Bachelor of Science

Bachelor of Science degree programs are offered in Civil Engineering, Computer Engineering, Computer Science, Construction Management, Electrical and Electronic Engineering, and Mechanical Engineering. The undergraduate engineering programs are accredited by:

Engineering Accreditation Commission of ABET (EAC/ABET)
415 North Charles Street
Baltimore, MD 21202-4012
Telephone: (410) 347-7700

The undergraduate computer science program is accredited by:
Computing Accreditation Commission of ABET (CAC/ABET)
415 North Charles Street
Baltimore, MD 21202-4012
Telephone: (410) 347-7700

The Construction Management program is accredited by:
American Council for Construction Education (ACCE)
300 Decker Drive, Suite 330
Irving, Texas 75062
Telephone: (972) 600-8800

Students in the College of Engineering and Computer Science are required to meet the general education requirements of the University.

Engineering students must satisfy the 16-unit humanities and social science requirement of EAC/ABET. Construction Management students must satisfy the 18-unit humanities and social science requirements of ACCE. Students should consult with their advisers to determine which courses meet accreditation requirements for social sciences and humanities. By choosing carefully, the student can satisfy the University's General Education requirements with these courses.

While the objective of a broad liberal education is served through independent humanities and social science courses, it is recommended that some courses in these subject areas be at an advanced level rather than a selection of unrelated beginning courses. Courses treating such subjects as accounting, industrial management, finance, personnel administration, art and music skills, introductory language, and ROTC studies do not fulfill the accreditation humanities-social science requirement.

Enrollment in upper division courses offered by the college is normally restricted to students who have satisfactorily completed all lower division requirements and who have been admitted to one of the majors in the college. Within each program, different patterns of study are possible through a judicious choice of electives.

Minor In Engineering

Non-majors in engineering may elect to minor in this field. Minor requirements may be satisfied by completing 21 approved units, of which 12 must be upper division. Students who have not completed the lower division requirements in calculus, including differential equations, physics, chemistry, and a few engineering courses will find it difficult to complete this minor in the four-year program due to the prerequisite requirements of upper division engineering courses.

Students wishing to minor in engineering must have their minor program approved by the ECS Associate Dean for Student Affairs. The program normally includes:

- Algebra: 2 years
- Plane Geometry: 1 year
- Trigonometry: 1/2 year
- Chemistry: 1 year
- Physics: 1 year
- Mechanical Drawing: 1 year (only for civil and mechanical engineering majors)

Computer literacy and programming, analytic geometry and calculus are desirable.
**Master of Science**

While graduates of baccalaureate programs enjoy successful careers in many aspects of engineering and computer science, graduate study is becoming more desirable for qualified students who expect to practice in research and development, teaching, management and many areas of design.

The MS degree programs offered in the College of Engineering and Computer Science include Civil Engineering, Computer Engineering, Computer Science, Electrical and Electronic Engineering, Mechanical Engineering, and Software Engineering.

In addition, special interdisciplinary studies are possible in selected areas chosen by the student in consultation with the faculty of the College.

The Master of Science programs require a minimum of 30 units of approved graduate study. The option availability of Plan A, B, or C is indicated with each specialization. Refer to the appropriate sections for detailed information concerning admission and degree requirements.

General information on admission requirements and general graduate study regulations are listed in the section, "Graduate Degree Curricula," of this catalog.

**Note:** Each graduate course is administered by one of the academic departments in the College. Information on these courses may be obtained in any of the academic department sections of the Catalog.

**Departments/Programs**

Programs of instruction leading to the following degrees offered by the college are listed in the catalog in separate sections.

- Civil Engineering, BS, MS
- Computer Science, BS, MS
- Computer Engineering, BS, MS
- Construction Management, BS
- Electrical & Electronic Engineering, BS, MS
- Mechanical Engineering, BS, MS

**Contact Information**

Kevan Shafizadeh, Dean
Mariappan Jawaharal, Associate Dean for Faculty Affairs
Behnam Arad, Interim Associate Dean for Student Affairs
Suzanne Abshire, Administrative Analyst Specialist
Liliana Gomez, Administrative Analyst Coordinator
Jason Van Zant, Administrative Support Coordinator

ECS Dean's Office
Riverside Hall, Room 2014
(916) 278-6366 / ecs-doassist@csus.edu

**College of Engineering & Computer Science Website** ([http://www.ecs.csus.edu/](http://www.ecs.csus.edu/))

**Civil Engineering**

**College of Engineering and Computer Science**

**Program Description**

Civil Engineering involves the application of scientific principles and knowledge of mathematics and computers to the planning, analysis, design, and construction of all types of private and public works. Reduction of air and water pollution, disposal of hazardous wastes, renewal of our old cities, planning and building of new communities, providing water, power, and high-speed ground transportation systems are the responsibilities of the civil engineer. It is a continual challenge to the civil engineer to provide these services efficiently by the construction of dams, buildings, bridges, tunnels, highways, airports, waterways, and waste handling facilities in harmony with the natural environment.

Because of the broad range of demands on the civil engineer's services, the undergraduate program is devoted to fundamental principles in mathematics, basic and engineering sciences; the spectrum of Civil Engineering practice in both analysis and design; and required courses in the humanities and the social sciences, so that engineers may better relate to the world and society they serve. The upper division program permits students to select 9 units (3 courses) of electives. Students may increase the breadth or depth of their knowledge in Civil Engineering by selecting these electives in several areas: environmental and water quality engineering, geotechnical engineering, structural engineering, transportation, and water resources engineering.

**Degree Programs**

BS in Civil Engineering (p. 585)
MS in Civil Engineering (p. 587)

Cooperative Education Program (Work Experience)

**Accreditation**

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Civil Engineering is also individually accredited by ABET, Inc.

**Notice to Students RE: Professional Licensure and Certification**

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(O).
Special Features

- The BSCE degree is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (EAC/ABET).
- A notable strength of the program is that most faculty are licensed professional engineers in California and have practical experience in industry. Thus, faculty bring an ability to relate theory to practice, and the program prepares the student for the profession as well as for advanced study.
- Emphasis is placed on design which is the definition and solution of engineering problems in a practical manner. Lower division and first semester junior year coursework provides the preparation for design in courses such as mathematics, physics, descriptive geometry, CAD, surveying, computer applications, and engineering economics. Design courses are available to students in their last three semesters including a senior design project course in the final semester.
- Class sizes are small providing for close interaction between students and faculty. This interaction is enhanced in laboratory courses which are an integral part of the curriculum.
- Computers are used in many courses and students have free access to computer laboratories.
- Communication skills and social and ethical responsibilities of professional practice are emphasized.
- Students are encouraged to participate in the Student Chapter of American Society of Civil Engineers and other student organizations, to develop organizational skills, and to interact with practicing civil engineers.
- Sacramento, the State Capital and the seat of county government, provides proximity to city, county, state and federal agencies, and many consulting firms with Civil Engineering departments. Thus, students have a unique environment to draw upon for semester projects, part-time or summer employment, and career opportunities.

Program Educational Objectives

The objectives of the civil engineering are to prepare graduates to:

- ethically apply their hands-on, practice-oriented civil engineering education to succeed professionally;
- engage in lifelong learning through graduate education, professional development, and/or active involvement in professional organizations; and
- communicate effectively on multi-disciplinary teams to address diverse challenges, creating solutions that serve the general public.

Academic Policies and Procedures

The following is a summary of policies and procedures specific to the Department of Civil Engineering. Other University policies and procedures in this catalog also apply to Civil Engineering majors. The Department will not hear petitions for deviation from articulated policies made by students who disregard catalog policy.

- **Course Repeat Policy:** Undergraduate engineering and Civil Engineering courses that are used to meet the Bachelor of Science in Civil Engineering degree requirements may be repeated only twice (for a total of three attempts). Grades of the second and third attempt will be averaged in grade point calculations.
- **Reinstatement Policy:** Students seeking reinstatement to the Civil Engineering major must complete a Reinstatement Petition (obtained at Admissions and Records). That petition will be reviewed by the Department Chair for approval or rejection.

Note: The only basis for reinstatement is the expectation (supported by evidence provided by the student) that the student is now likely to progress towards the satisfactory completion of the Department's degree requirements in a timely manner.

- **Minimum Grade Requirements:** The purpose of this requirement is to assure that all Civil Engineering majors attain the minimum level of competency in all their coursework required for a Bachelor of Science Civil Engineering Degree. All required courses in the major, all electives in the major, ENGL 5, and ENGL 20 must be completed with a grade of "C-" or better. A minimum grade point average of 2.0 ("C") is required in the major courses applied to the degree.

- **Incomplete Grades:** Incomplete grades are issued only in accordance with University policy. The student must be passing the course at the time an “Incomplete” is requested. An Incomplete Petition (obtained in the Department Office) must be submitted to the Department with the student’s and the course instructor’s signature. The Incomplete Petition must specify the work to be completed, the basis by which the student's final grade will be determined, and the last date for completion of the incomplete work. An incomplete grade that is not cleared by the set date will lapse to an F grade.

Career Possibilities

Bridge Engineer · Civil Engineer · Construction Engineer · Design Engineer · Environmental Engineer · Foundation Engineer · Geotechnical Engineer · Highway Engineer · Hydraulic Engineer · Hydrologic Engineer · Project Engineer · Public Works Engineer · Research Engineer · Sanitary Engineer · Soils Engineer · Structural Engineer · Traffic Engineer · Transportation Engineer · Urban Planner · Water Resources Engineer

Contact Information

Ghazan Khan, Department Chair
Ashley Mihok, Administrative Support Coordinator
Riverside Hall 4024
(916) 278-6982
Department of Civil Engineering Website (http://www.ecs.csus.edu/ce/)

Faculty

ABADI, MASOUDE
ARMSTRONG, RICHARD
ARYANI, CYRUS
DOKOU, ZOI
FELL, BENJAMIN
FOGARTY, JULIE
GARCIA, JOSE
HANSEN, KAREN L.
KHAN, GHAZAN
MAHMOOD, RAMZI J.
MATSUMOTO, ERIC E.
MERAYYAN, SAAD
MOTLAGH, AMIR
POINDEXTER, CRISTINA
SCOTT-HALLET, KIMBERLY
ZHU, TONGREN

CE 1. Civil Engineering Seminar. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
Introduces students to civil engineering as a profession. Topics include the technical disciplines (environmental, geotechnical, structural, transportation, and water resources), the role of civil engineers in planning, constructing and operating infrastructure, and professional responsibilities such as licensure and ethics. Case studies are used to explore both technical and nontechnical aspects of civil engineering projects such as design and environmental constraints, constructability, and social and political issues.

CE 4. Engineering Graphics and CAD. 2 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
In-depth graphic analysis and solution of typical three dimensional space problems by applying the principles of orthogonal projection. Fundamentals of interactive computer aided design and drafting. Lecture one hour; laboratory three hours.

CE 9. Plane and Topographic Surveying. 2 Units
Prerequisite(s): MATH 30 and CE 9L. CE 9L may be taken concurrently.
MATH 30 may be taken concurrently. Not currently enrolled in CE 9.
Term Typically Offered: Fall, Spring
Methods for the measurement of distance, direction, angles and elevations. Computational methods for locating points, closing traverses and determining areas and earthwork volumes. Horizontal and vertical curves. Introduction to legal aspects of surveying, geodetic surveys, maps, boundary surveys and new technologies used in surveying. Lecture two hours.

CE 9L. Plane and Topographic Surveying Laboratory. 1 Unit
Prerequisite(s): MATH 30 and CE 9. CE 9 may be taken concurrently.
MATH 30 may be taken concurrently. Not currently enrolled in CE 9L.
Term Typically Offered: Fall, Spring
Laboratory course that supports CE 9. Use of surveying instruments and measurement techniques in field setting. Laboratory three hours.
Note: This course requires safety training and personal protective equipment (PPE).

CE 100. Engineering Geology. 2 Units
Prerequisite(s): ENGR 112; may be taken concurrently.
Term Typically Offered: Fall, Spring
Soil and rock mechanics and their relations to geological features influencing design, construction and maintenance of engineering projects. Lectures and field problems.

CE 101. Computer Applications in Civil Engineering. 3 Units
Prerequisite(s): ENGR 30 and CE 4; CE 4 may be taken concurrently.
Term Typically Offered: Fall, Spring
Development of programming- and algorithm-based problem-solving skills in civil engineering using modern programming and scripting languages and scientific computing programs. Application to numerical methods, data science, and visualization.

CE 130. Water Resources Engineering. 3 Units
Prerequisite(s): CE 1, CE 101, ENGR 115, ENGR 132, CE 130L. CE 130L may be taken concurrently. CE 101 may be taken concurrently. Not currently enrolled in CE 130.
Term Typically Offered: Fall, Spring
Hydrologic and hydraulic fundamentals which are common to water resources projects; introduction to reservoirs, dams, pipelines, channels, hydraulic machinery, ground water, water rights, statistical analysis, engineering economy applications, and water resources planning.

CE 130L. Hydraulics Laboratory. 1 Unit
Prerequisite(s): CE 101 and CE 130. CE 130 may be taken concurrently. CE 101 may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 130L.
Term Typically Offered: Fall, Spring
Laboratory experiments relating the principles of fluid mechanics to real fluid flow. Laboratory three hours.

CE 131. Hydrology. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 131.
Term Typically Offered: Fall only
Introduction to surface water hydrology for engineering. Evapotranspiration and infiltration prediction. Precipitation analysis, hydrograph and flood routing applications for civil engineering. Statistical applications in hydrology.

CE 132. Groundwater Engineering. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 132.
Term Typically Offered: Spring only

CE 133. Design of Urban Water and Sewer Systems. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 133.
Term Typically Offered: Fall only
Hydraulic design of water distribution and sewerage systems. Computer-assisted pipe network analysis. Analysis of pump systems. Pump station design. Other selected topics.

CE 134. Open Channel Hydraulics. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 134.
Term Typically Offered: Spring only
Civil engineering design problems in steady, uniform, gradually and rapidly varied open channel flow. Hydraulic analysis in structures, transitions, culverts, weirs and spillways. Channel design including roughness for subcritical and supercritical flow. Prediction of water surface profiles via simulation software.
CE 140. Transportation Engineering. 3 Units
Prerequisite(s): CE 1, CE 9, CE 9L, CE 101, ENGR 115, and CE 140L.
CE 140L may be taken concurrently. CE 101 may be taken concurrently.
Not currently enrolled in CE 140.
Term Typically Offered: Fall, Spring
Introduction to the fundamental topics in Transportation Engineering.
Focus on roadway geometric design, layout considerations, pavement
materials and design, traffic operations and analysis.

CE 140L. Transportation Engineering Laboratory. 1 Unit
Prerequisite(s): CE 1, CE 9, CE 9L, CE 101, ENGR 115, and CE 140. CE 140
may be taken concurrently. CE 101 may be taken concurrently. WPJ
Portfolio Score of 3+ or equivalent. Not currently enrolled in CE 140L.
Term Typically Offered: Fall, Spring
Laboratory course that supports CE 140. Activities include speed survey
and safety assessment, analysis of freeway level of service, analysis of
intersection delay and level of service, roadway geometry design, and
pavement design using field measurements, online datasets, and state-of-the-practice software. Laboratory three hours.
Note: This course requires safety training. This course requires personal
protective equipment (PPE).

CE 141. Traffic Analysis and Design. 3 Units
Prerequisite(s): CE 140 and CE 140L. Not currently enrolled in CE 141.
Term Typically Offered: Spring only
Introduction to the fundamental principles of traffic operations, traffic
data collection methods, intersection control, signal design and analysis
techniques. Methods and software for designing and optimizing
signalized and unsignalized intersection operation.

CE 142. Transportation Systems. 3 Units
Prerequisite(s): CE 140. Not currently enrolled in CE 142.
Term Typically Offered: Fall only
Transportation systems evaluation and management. Focus on
transportation planning methods, including data analysis, estimation of
future demand, evaluation of travel demand impacts on existing systems,
and transportation system decision-making.

CE 144. Geometric Design of Highways. 3 Units
Prerequisite(s): CE 140, CE 140L
Term Typically Offered: Fall, Spring
Theory and practice of the principles of geometric design of highways
and roads focusing on designing visual aspects of highways, highway
classification, design controls and criteria, design elements, safety,
vertical and horizontal alignment, cross section, intersections, and
interchanges. Emphasis on the latest Federal and California design
standards and tools, methods, and practices.

CE 150. Principles of Environmental Engineering. 2 Units
Prerequisite(s): CHEM 1E or CHEM 1A, ENGR 115, CE 1, CE 101, and
CE 150L. CE 150L may be taken concurrently. CE 101 may be taken concurrently.
Not currently enrolled in CE 150.
Term Typically Offered: Fall, Spring
Introduction to principles of environmental quality management. Physical
and chemical principles affecting environmental quality including
equilibrium and kinetics. Water quality parameters, their importance,
and natural processes that affect them. Application of thermodynamic
principles to environmental systems.

CE 150L. Environmental Engineering Laboratory. 1 Unit
Prerequisite(s): CHEM 1E or CHEM 1A, ENGR 115, CE 1, CE 101, and
CE 150. CE 150 may be taken concurrently. CE 101 may be taken concurrently.
WPJ Score of 70+ or equivalent. Not currently enrolled in CE 150L.
Term Typically Offered: Fall, Spring
This is the laboratory course that supports CE 150. Activities include
water quality testing and computer modeling. Laboratory three hours.
Note: This course requires safety training and personal protective
equipment (PPE).

CE 151. Environmental Engineering Practice. 2 Units
Prerequisite(s): CE 150. Not currently enrolled in CE 151.
Term Typically Offered: Fall, Spring
Introduction to environmental engineering professional practices. Water
and wastewater treatment processes. Solid waste management. Air
quality parameters and management. Sustainability.

CE 153. Design of Water Quality Control Processes. 3 Units
Prerequisite(s): CE 150B and ENGR 132. Not currently enrolled in CE 153.
Term Typically Offered: Spring only
Analysis and design of selected physical, chemical, and biological
facilities for water purification and wastewater treatment. Emphasis is
on design based on loading factors and integration of unit processes into
treatment systems.

CE 156. Geoenvironmental Engineering. 3 Units
Prerequisite(s): CE 150B and CE 170; CE 150B may be taken concurrently.
Not currently enrolled in CE 156.
Term Typically Offered: Not offered
Equilibrium distribution of contaminants among air, water and solid
phases of soil systems; analysis and modeling of soil vapor extraction
(SVE), pump and treat, and soil washing systems; movement of gasses
in landfills; infiltration through landfill cover; geosynthetic liner systems;
hazardous waste containment systems.

CE 160. Introduction to Structural Analysis. 3 Units
Prerequisite(s): CE 1, CE 101, ENGR 112, and (MATH 35 or MATH 100).
Not currently enrolled in CE 160.
General Education Area/Graduation Requirement: Further Studies in Area
B (BS)
Term Typically Offered: Fall, Spring
Analysis of statically determinate and indeterminate beams, frames, and
trusses. Includes energy principles, flexibility and stiffness analyses, and
influence lines. Computers are used to aid in the solution of complex
structural problems.

CE 160L. Structural Laboratory. 1 Unit
Prerequisite(s): CE 101 and ENGR 112. WPJ score of 70+ or equivalent.
Not currently enrolled in CE 160L.
General Education Area/Graduation Requirement: Further Studies in Area
B (BS)
Term Typically Offered: Fall, Spring
Introduction to the principles of structural analysis and design by testing
of structural elements. Experimental verification of the assumptions of
strength of materials. Introduction to laboratory techniques. Laboratory
three hours.
Note: This course requires safety training. This course requires personal
protective equipment (PPE).
CE 163. Structural Steel Design. 3 Units
Prerequisite(s): CE 160. Not currently enrolled in CE 163.
Term Typically Offered: Fall, Spring
Theory and practice in design of structural steel members and connections using current design specifications. Design of tension and compression members, laterally supported and unsupported beams, beam-columns, and bolted and welded connections.

CE 164. Reinforced Concrete Design. 3 Units
Prerequisite(s): CE 160 and CE 160L. CE 160L may be taken concurrently. Not currently enrolled in CE 164.
Term Typically Offered: Fall, Spring
Introduction to reinforced concrete design according to American Concrete Institute (ACI) 318 Building Code, including: design and safety concepts; loads and load path; structural systems; material properties; flexural analysis and design of reinforced concrete beams and one-way slabs; development of reinforcement; serviceability; shear; columns; and other topics.

CE 165. Masonry Design. 3 Units
Prerequisite(s): CE 160. Not currently enrolled in CE 165
Term Typically Offered: Spring only
History of masonry. Masonry materials. Masonry as a structural material. Design of masonry beams, concentrically and eccentrically loaded columns, walls for vertical and lateral loading including effects of wind and seismic forces. Design of a small building for wind and seismic loading including torsional effects.

CE 166. Seismic Behavior of Structures. 3 Units
Prerequisite(s): CE 101, CE 160, and ENGR 110. Not currently enrolled in CE 166
Term Typically Offered: Fall, Spring
Analyzes simple structures’ response to dynamic loads with emphasis on response to earthquake ground motion. Introduction to multi-story buildings dynamics. Modal and approximate analyses of earthquake response. Dynamic analysis and building code procedures.

CE 168. Prestressed Concrete Design. 3 Units
Prerequisite(s): CE 160 and CE 164. CE 164 may be taken concurrently. Not currently enrolled in CE 168.
Term Typically Offered: Fall only – even years
Introduction to prestressed concrete design, focusing on bridges and buildings. Topics include: basic concepts; technology for fabrication and construction; material properties; flexural analysis and design for non-composite and composite beams; development of strands; prestress losses; camber and deflections; shear; and other topics. Design conforming to American Concrete Institute (ACI) 318 Building Code or AASHTO LRFD Bridge Design Specifications is emphasized, as appropriate.

CE 169. Timber Design. 3 Units
Prerequisite(s): CE 160. Not currently enrolled in CE 169.
Term Typically Offered: Fall only
Wood as a structural material. Design of sawn and glulam beams, concentrically and eccentrically loaded columns, shear walls, flexible diaphragms and connections for vertical and lateral loading including effects of wind and seismic forces.

CE 170. Soil Mechanics. 3 Units
Prerequisite(s): CE 1, CE 100, CE 101, ENGR 112, and CE 170L. CE 170L may be taken concurrently. CE 101 may be taken concurrently. Not currently enrolled in CE 170.
Term Typically Offered: Fall, Spring
Composition and properties of soils; soil classification; soil compaction; soil-water interaction, including permeability and seepage analyses; soil stresses; soil compressibility, consolidation, and settlement analysis; soil shear strength.

CE 170L. Soil Mechanics Laboratory. 1 Unit
Prerequisite(s): Complete CE 1, CE 100, CE 101, ENGR 112, CE 170. CE 170 may be taken concurrently. CE 101 may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 170L.
Term Typically Offered: Fall, Spring
Laboratory course that supports CE 170. Activities include soil testing and analysis of geotechnical site investigation data. Laboratory three hours.
Note: This course requires safety training and personal protective equipment (PPE).

CE 171. Soil Mechanics and Foundation Engineering. 3 Units
Prerequisite(s): CE 170 and CE 170L. Not currently enrolled in CE 171.
Term Typically Offered: Spring only
Lateral earth pressures and principles of retaining wall design; slope stability analysis and principles of slope stabilization design; ultimate bearing capacity of soils, allowable bearing pressures and settlement of structures; principles of foundation design including shallow foundations and deep foundations.

CE 175. Geotechnical Earthquake Engineering. 3 Units
Prerequisite(s): CE 170 and CE 170L. Not currently enrolled in CE 175.
Term Typically Offered: Fall only
Introduction to seismology and seismic hazard analysis; determination of building code design loads; prediction of soil-site effects; evaluation of liquefaction triggering, cyclic softening and associated consequences; introduction to mitigation techniques for liquefaction and ground failure hazards.

CE 182. Introduction to GIS in Civil Engineering. 3 Units
Prerequisite(s): ENGR 115, CE 9, CE 9L, and (CE 130 or CE 140 or CE 150 or CE 170). Not currently enrolled in CE 182.
Term Typically Offered: Fall only
Fundamental geographic information system (GIS) concepts; GIS data acquisition and analysis; GIS analytical methods. Lab exercises with GIS software used to introduce students to typical uses of GIS in civil engineering. This course may be paired with the graduate-level course GIS Applications in Civil Engineering. Lecture two hours; laboratory three hours.

CE 183. Concrete Technology. 3 Units
Prerequisite(s): ENGR 112.
Term Typically Offered: Spring only
History of portland cement, production, hydration, aggregates, supplementary cementitious materials, chemical admixtures, fresh and hardened concrete properties, concrete mixture design, and concrete construction. Introduction to concrete durability, concrete repair, and advances in concrete technology.
CE 190. Civil Engineering Project Skills. 3 Units
Prerequisite(s): CE 130 or CE 140 or CE 150 or CE 160 or CE 170. WPJ
Score of 70+ or equivalent. Not currently enrolled in CE 190.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to professional engineering practice through case studies of existing projects, including estimating, scheduling, and specifications. Evaluation of design alternatives for engineering projects using principles of engineering economy and cost benefit analysis. Engineering ethics and professional responsibilities.
Note: This course is intended to be taken in the final year of study before taking CE 191.

CE 191. Senior Project. 3 Units
Prerequisite(s): CE 190
Term Typically Offered: Fall, Spring

Culminating degree requirement. Completion of a conceptual design and evaluation of alternatives under realistic constraints for proposed infrastructure projects. Students work in teams with practicing professionals providing mentoring. Draws upon full educational experience to date. Lecture two hours. Laboratory three hours.
Note: This course must be taken in the final semester.

CE 194. Career Development in Civil Engineering. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Designed for Civil Engineering students making career decisions. Instruction will include effective career planning strategies and techniques including skill assessments, employment search strategy, goal setting, time management, interview techniques and resume writing. Lecture one hour.
Note: Units earned cannot be used to satisfy major requirements. Cross Listed: ENGR 194, EEE194

Credit/No Credit

CE 195. Fieldwork in Civil Engineering. 1 - 3 Units
Prerequisite(s): Petition approval by supervising faculty member and Department chair.
Term Typically Offered: Fall, Spring

Supervised work experience in civil engineering with public agencies or firms in the industry.
Note: May be repeated for credit.

Credit/No Credit

CE 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science.
Note: Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CE 196B. Stormwater Management. 3 Units
Prerequisite(s): CE 150, CE 150L, CE 130, CE 130L
Term Typically Offered: Spring only


CE 196I. Geometric Design of Highways. 3 Units
Prerequisite(s): CE140, CE 140L
Term Typically Offered: Fall, Spring

Theory and practice of the principles of geometric design of highways and roads focusing on designing visual aspects of highways, highway classification, design controls and criteria, design elements, safety, vertical and horizontal alignment, cross section, intersections, and interchanges. Emphasis on the latest Federal and California design standards and tools, methods, and practices.

CE 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open to students judged capable of carrying out individual work. Admission requires departmental approval and sponsorship of a supervising faculty member. Cannot be used as a technical elective in the major. Consult the CE Department for admission procedures and other requirements. May be repeated.

CE 199E. Independent Study Technical Elective. 3 Units
Prerequisite(s): GPA of 2.5 or greater in the upper division courses of the major; grade of "B" or better in the required major course associated with the proposed area of study (CE 130 or CE 140 or CE 150 or CE 160 or CE 170).
Term Typically Offered: Fall, Spring

Individual project, research, or directed reading on an advanced topic.
Note: Open to only those students prepared and capable of carrying out independent work.

CE 200. Civil Engineering Professional Writing. 3 Units
Term Typically Offered: Fall, Spring

Writing workshop course designed to immerse graduate students in the discourse of civil engineering. Instruction and practice in the writing process, professional writing styles used in the discipline, and editing. Multiple writing assignments totaling a minimum of 5000 words will be required.

CE 230. Water Resources Planning. 3 Units
Prerequisite(s): CE 281 or instructor permission.
Term Typically Offered: Fall only – odd years

Application of single and multi-objective planning to the design and operation of water resources projects. Objectives and constraints for water projects, criteria and procedures for evaluation, planning under uncertainty. Application in water development and water quality planning, with case studies.
CE 231.  Hydrometeorology.  3 Units
Prerequisite(s): CE 130 or CE 131 and ENGR 115.
Term Typically Offered: Spring only – odd years
An analyses of hydrologic processes closely linked to the atmosphere: evaporation, evapotranspiration, precipitation, and snowmelt. Penman and Penman-Montieth evaporation models, the eddy covariance method for land-atmosphere vapor and energy fluxes, atmospheric rivers and their impact on California water resources.

CE 232.  Groundwater Hydrology.  3 Units
Prerequisite(s): CE 130 or instructor permission.
Term Typically Offered: Fall only – even years
Occurrence and movement of groundwater; physical characteristics of aquifers; analysis of steady-state groundwater flow problems by mathematical, digital computer, electrical analog and graphical methods; analysis of unsteady-state problems in confined and unconfined, aquifers; multiple well systems.

CE 234.  Advanced Engineering Hydraulics.  3 Units
Prerequisite(s): CE 130 or equivalent, or instructor approval.
Term Typically Offered: Spring only – even years
Steady uniform and non-uniform open channel flows including gradually, rapid and spatially varied flows; analysis of supercritical flow in transition; basic principles of unsteady flows; long wave theory; Saint-Venant Equations and their solutions including method of characteristics, explicit and implicit finite difference numerical methods.

CE 235.  Hydrologic Modeling.  3 Units
Prerequisite(s): CE 234 or equivalent.
Term Typically Offered: Spring only – odd years
Theories and structure of hydraulic model components; application of HEC-RAS (River Analysis System) and HEC-HMS (Hydrologic Modeling System) computer programs; emphasis on flood routing methods; dam safety analysis methodology including dam break and dam overturning cases; application of microcomputers in hydraulics computations.

CE 241.  Analysis and Control of Traffic Systems.  3 Units
Prerequisite(s): CE 140 or CE 142; CE 243 or instructor permission.
Term Typically Offered: Spring only – odd years
Traffic data collection and analysis, practical application of theoretical methods of analysis such as capacity, level of service, and queuing theory. Investigation of traffic control techniques such as actuated signals and signal systems, and study of management techniques for traffic congestion.

CE 242.  Transportation Planning.  3 Units
Prerequisite(s): CE 142 or instructor permission.
Term Typically Offered: Fall only – odd years
Introduction to the complexities of comprehensive intermodal transportation planning. Study of transportation problems, system operating characteristics, alternative modes, and the planning process. Analyzes factors affecting travel behavior and methods of forecasting demand for travel by various modes.

CE 243.  Traffic Flow Theory.  3 Units
Prerequisite(s): CE 140 or CE 142; ENGR 203 or instructor permission.
Term Typically Offered: Fall only – even years
Study of traffic flow characteristics including flow rate, speed, and density, at both the microscopic and macroscopic levels. Traffic flow analysis using the theoretical methods including capacity analysis, traffic stream models, shockwave analysis, and queuing analysis. Emphasis is on theory with demonstration of practical applications.

CE 244.  Advanced Transportation Facility Design.  3 Units
Prerequisite(s): CE 140 or instructor permission.
Term Typically Offered: Fall only – even years
Advanced study of current topics in highway and mass transportation facility design including safety, curve design, pavement design and drainage facility design. Focuses on current design practice and recent or impending changes in design practice.

CE 245.  Pavement Design.  3 Units
Prerequisite(s): CE 140 and CE 170.
Term Typically Offered: Spring only – even years
Fundamental principles of pavement analysis, design, and evaluation. Topics include pavement materials, mechanics, traffic and environmental loadings, pavement performance, design methods, construction and economic evaluation.

CE 251.  Environmental Quality Processes I.  3 Units
Prerequisite(s): CE 150, 150L, and CE 151; or equivalent.
Term Typically Offered: Fall, Spring

CE 252.  Environmental Quality Processes II.  3 Units
Prerequisite(s): CE 150, 150L, and CE 151.
Term Typically Offered: Fall, Spring

CE 253.  Environmental Quality Processes III.  3 Units
Prerequisite(s): CE 150, 150L, and CE 151; or equivalent.
Term Typically Offered: Fall, Spring
Theory and practice of physical and chemical processes used in engineered water and wastewater systems. Adsorption, ion exchange, gas transfer, membrane processes, coagulation, flocculation, sedimentation, filtration, precipitation, disinfection, and stripping. Physical/chemical reactors. Note: CE 251 recommended.
## CE 264. Advanced Design in Reinforced Concrete. 3 Units
**Prerequisite(s):** CE 160, CE 163, CE 164.
**Term Typically Offered:** Spring only – even years

Advanced topics in behavior and design in reinforced concrete. Detailing for seismic response.

## CE 266. Dynamics and Earthquake Response of Structures. 3 Units
**Prerequisite(s):** CE 160; or equivalent.
**Term Typically Offered:** Fall only – odd years

Response of structures modeled as single-degree systems to harmonic, periodic, and arbitrary excitation and earthquake ground motion; effects of damping and material nonlinearity; numerical methods using spreadsheets; response spectra. Response of structures modeled as multi-degree systems: modeling of structure mass, damping and elastic stiffness; solution by modal superposition; time-history and response spectrum analysis; implications for codes for earthquake-resistant design. Microcomputer software is extensively used.

## CE 267. Structural Systems for Buildings. 3 Units
**Prerequisite(s):** CE 163, CE 164, and CE 166; or equivalent
**Term Typically Offered:** Spring only – even years

Analysis and design of structural systems for buildings including frames, shear walls, and tubes; interaction between structural systems; secondary effects including geometric and material nonlinearities.

## CE 268. Pre-stressed Concrete Bridge Design. 3 Units
**Prerequisite(s):** CE 164 or instructor approval.
**Term Typically Offered:** Fall only – even years

Behavior and design of short and medium-span prestressed concrete bridges using American Association of State Highway and Transportation Officials (AASHTO) Load Resistance Factor Design (LRFD) specifications. Topics include: bridge types, aesthetics; design process; superstructure load types and live load analysis; limit states and load combinations; prestressed concrete materials; flexural analysis and design; shear analysis and design; and introduction to substructure analysis and design, including seismic design criteria. A team project is required.

## CE 270. Advanced Soil Mechanics and Foundation Engineering I. 3 Units
**Prerequisite(s):** CE 260 or CE 170L or equivalent.
**Term Typically Offered:** Fall only – even years

Advanced analyses in soil mechanics and their practical applications in foundation engineering; compressibility of soils, settlement analysis, and tolerable settlement; lateral earth pressures and design of earth retaining structures; bearing capacity of shallow foundations; in-situ soil testing for foundation design; design of deep foundations, including driven piles, drilled shaft foundations, and laterally loaded piles.

## CE 271. Advanced Soil Mechanics and Foundation Engineering II. 3 Units
**Prerequisite(s):** CE 170 and CE 170L or equivalent.
**Term Typically Offered:** Fall only – odd years

Advanced analyses in shear strength of cohesionless and cohesive soils, including stress-strain characteristics of soils, total and effective stress analyses; slope stability analyses for natural slopes, fill slopes, earth dams, levees, and methods of slope stabilization; analysis and design of anchored bulkheads, cellular cofferdams, soil nail walls, tieback walls, mechanically stabilized earth walls, and segmental retaining walls.
Advanced analysis principles and procedures for calculating monotonic and cyclic soil element response effective stress and pore water pressure distributions, dynamic site response, and soil deformations; application to analysis of complex geotechnical engineering systems such as levees, dams, and wharfs. Laboratory time devoted to numerical analysis software and physical element and small scale tests. Lecture two hours. Laboratory three hours.

**CE 273. Ground Modification Engineering.**
Prerequisite(s): CE 170 and CE 170L or equivalent.
Term Typically Offered: Fall, Spring

Principles of soil stabilization and earth reinforcement; mechanical compaction and treatment of difficult soils, including expansive soils, collapsible soils, oversize materials, and compressible fill; prefabricated vertical drains and preloading; dynamic deep compaction; vibro compaction; vibro-replacement; rammed aggregate pier; compaction grouting; jet grouting; slurry grouting; chemical grouting; deep soil mixing; slurry trench walls.

**CE 274. Soil Dynamics and Earthquake Engineering.**
Prerequisite(s): CE 170 and CE 170L.
Term Typically Offered: Spring only – odd years

Introduction to vibration theory; wave propagation in soils and dynamic behavior of soils and foundations; dynamic tests; analysis of dynamically loaded foundations; causes of earthquakes; earthquake magnitude and zones; ground motions induced by earthquakes; earthquake-resistant design of foundations and earth dams.

**CE 275. Geosynthetics.**
Prerequisite(s): CE 170 and CE 170L or equivalent.
Term Typically Offered: Fall only – even years

Overview of geotextiles, geogrids and geonets; geosynthetic properties and test methods; geosynthetic functions and mechanisms as in separation, roadway and soil reinforcement, filtration, and drainage; applications and design methods; construction, fabrication and installation.

**CE 281. Systems Analysis of Resources Development.**
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Spring only – even years

Investigation of resource planning using the “systems approach”. Objectives of resource development; basic economic and technologic concepts, and economic factors affecting system design. Consideration of evaluation, institutional constraints, and uncertainty in water resources systems. Familiarization with modern computer techniques. Applications of concepts to air and land resources.

**CE 289. Project Management for Civil Engineers.**
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Spring only

Theory and practice of project management in civil engineering. Interrelationship of planning, design, and construction. New technologies and techniques used in both US and international architectural/engineering/Construction (A/E/C) markets. Topics: Project initiation, early estimates, project budgeting, work plans, design proposals, scheduling, tracking, design coordination, construction, project close-out, team and personal management skills, and quality control.

**CE 296D. Stormwater Management.**
Prerequisite(s): CE 137 and CE 170
Term Typically Offered: Fall, Spring


**CE 296H. GIS Applications in Civil Engineering.**
Prerequisite(s): ENGR 115, CE 9 and CE 137 or CE 147 or CE 171A.
Term Typically Offered: Fall, Spring

Introduction to fundamental concepts of geographic information systems (GIS), methods, and applications in civil engineering. Design and develop GIS-based analytical methods and solutions for civil engineering problems. Lab exercises are used to design and practice GIS applications in civil engineering. This course may be paired with CE 196H.

**CE 299. Special Problems.**
Term Typically Offered: Fall, Spring

Special problems in graduate research.

**CE 500. Culminating Experience.**
Prerequisite(s): Advanced to candidacy and permission of the faculty advisor and Department Chair.
Term Typically Offered: Fall, Spring

Successful completion of either: A. Thesis (3-6 units), or B. Project (3-6 units) or C. Directed Study and Examination (3 units). Plan A requires a thesis and is primarily research-oriented. Plan B requires a project report that is primarily application-oriented. Plan C requires a detailed literature review or experimental data analysis resulting in a written report plus an examination by three faculty. A public presentation is required for all three plans.

**BS in Civil Engineering**

Units required for Major: 94 including GE courses
Total units required for BS: 124

**Program Description**

Civil Engineering involves the application of scientific principles and knowledge of mathematics and computers to the planning, analysis, design, and construction of all types of private and public works. Reduction of air and water pollution, disposal of hazardous wastes, renewal of our old cities, planning and building of new communities, providing water, power, and high-speed ground transportation systems are the responsibilities of the civil engineer. It is a continual challenge to the civil engineer to provide these services efficiently by the construction of dams, buildings, bridges, tunnels, highways, airports, waterways, and waste handling facilities in harmony with the natural environment.

Because of the broad range of demands on the civil engineer’s services, the undergraduate program is devoted to fundamental principles in
mathematics; basic and engineering sciences; the spectrum of Civil Engineering practice in both analysis and design; and required courses in the humanities and the social sciences, so that engineers may better relate to the world and society they serve. The upper division program permits students to select 12 units (4 courses) of electives. Students may increase the breadth or depth of their knowledge in Civil Engineering by selecting these electives in several areas: environmental and water quality engineering, geotechnical engineering, structural engineering, transportation, and water resources engineering.

Courses may be interchanged between semesters to accommodate the student’s schedule, as long as prerequisites are observed. Civil engineering is a demanding major, but with devoted study it can be completed in four years. Students who are working half-time or more often find it difficult to successfully pass a full load of classes each semester. Such students should plan to take fewer units per semester and a longer time to finish their degree.

Note: Students must satisfy the requirements of the Accreditation Board for Engineering and Technology (EAC/ABET). Consult the Civil Engineering Department Chair for specific General Education requirements.

Note: Students graduating with a BS in Civil Engineering will not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

### Program Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td><strong>Required Lower Division Courses (65 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>First Semester Freshman Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CE 1</td>
<td>Civil Engineering Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CE 4</td>
<td>Engineering Graphics and CAD 1</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 1E</td>
<td>General Chemistry for Engineering 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I 1</td>
<td>4</td>
</tr>
<tr>
<td>Select two General Education courses</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Second Semester Freshman Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CE 9</td>
<td>Plane and Topographic Surveying</td>
<td>2</td>
</tr>
<tr>
<td>CE 9L</td>
<td>Plane and Topographic Surveying Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II 1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics 1</td>
<td>4</td>
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<tr>
<td>Select two General Education courses</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>First Semester Sophomore Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 45</td>
<td>Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATH 45</td>
<td>Differential Equations for Science and Engineering</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism 1</td>
<td>4</td>
</tr>
<tr>
<td>Select two General Education courses</td>
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</tr>
<tr>
<td>Second Semester Sophomore Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 20</td>
<td>College Composition II</td>
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</tr>
<tr>
<td>ENGR 30</td>
<td>Analytic Mechanics: Statics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 35</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 100</td>
<td>Applied Linear Algebra</td>
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<tr>
<td>Select two General Education courses</td>
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<tr>
<td><strong>Required Upper Division Courses (59 Units)</strong> 2</td>
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<tr>
<td>First Semester Junior Year</td>
<td></td>
<td></td>
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<tr>
<td>CE 101</td>
<td>Computer Applications in Civil Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 110</td>
<td>Analytic Mechanics - Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 112</td>
<td>Mechanics Of Materials</td>
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</tr>
<tr>
<td>ENGR 115</td>
<td>Statistics For Engineers</td>
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</tr>
<tr>
<td>ENGR 132</td>
<td>Fluid Mechanics</td>
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</tr>
<tr>
<td>Second Semester Junior Year</td>
<td></td>
<td></td>
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<tr>
<td>CE 100</td>
<td>Engineering Geology</td>
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<tr>
<td>CE 130</td>
<td>Water Resources Engineering</td>
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<tr>
<td>CE 130L</td>
<td>Hydraulics Laboratory</td>
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</tr>
<tr>
<td>CE 150</td>
<td>Principles of Environmental Engineering</td>
<td>2</td>
</tr>
<tr>
<td>CE 150L</td>
<td>Environmental Engineering Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CE 160</td>
<td>Introduction to Structural Analysis 1</td>
<td>3</td>
</tr>
<tr>
<td>Select General Education course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>First Semester Senior Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CE 140</td>
<td>Transportation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE 140L</td>
<td>Transportation Engineering Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CE 151</td>
<td>Environmental Engineering Practice</td>
<td>2</td>
</tr>
<tr>
<td>CE 170</td>
<td>Soil Mechanics</td>
<td>3</td>
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<tr>
<td>CE 170L</td>
<td>Soil Mechanics Laboratory</td>
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<td>Select Civil Engineering elective 3</td>
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<tr>
<td>CE 190</td>
<td>Civil Engineering Project Skills</td>
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<tr>
<td>Second Semester Senior Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CE 160L</td>
<td>Structural Laboratory 1</td>
<td>1</td>
</tr>
<tr>
<td>CE 191</td>
<td>Senior Project</td>
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</tr>
<tr>
<td>Select three Civil Engineering electives 3</td>
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</tr>
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</table>

### Civil Engineering Electives

Select from the following: 4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 131</td>
<td>Hydrology</td>
<td>1</td>
</tr>
<tr>
<td>CE 132</td>
<td>Groundwater Engineering</td>
<td>2</td>
</tr>
<tr>
<td>CE 133</td>
<td>Design of Urban Water and Sewer Systems 5</td>
<td>3</td>
</tr>
<tr>
<td>CE 134</td>
<td>Open Channel Hydraulics</td>
<td>5</td>
</tr>
<tr>
<td>CE 141</td>
<td>Traffic Analysis and Design</td>
<td>5</td>
</tr>
<tr>
<td>CE 142</td>
<td>Transportation Systems</td>
<td>5</td>
</tr>
<tr>
<td>CE 153</td>
<td>Design of Water Quality Control Processes 5</td>
<td>5</td>
</tr>
<tr>
<td>CE 156</td>
<td>Geoenvironmental Engineering</td>
<td>5</td>
</tr>
<tr>
<td>CE 163</td>
<td>Structural Steel Design</td>
<td>5</td>
</tr>
<tr>
<td>CE 164</td>
<td>Reinforced Concrete Design</td>
<td>5</td>
</tr>
<tr>
<td>CE 165</td>
<td>Masonry Design</td>
<td>5</td>
</tr>
<tr>
<td>CE 166</td>
<td>Seismic Behavior of Structures</td>
<td>5</td>
</tr>
<tr>
<td>CE 168</td>
<td>Prestressed Concrete Design</td>
<td>5</td>
</tr>
<tr>
<td>CE 169</td>
<td>Timber Design</td>
<td>5</td>
</tr>
<tr>
<td>CE 171</td>
<td>Soil Mechanics and Foundation Engineering 5</td>
<td>5</td>
</tr>
<tr>
<td>CE 175</td>
<td>Geotechnical Earthquake Engineering</td>
<td>5</td>
</tr>
<tr>
<td>CE 182</td>
<td>Introduction to GIS in Civil Engineering</td>
<td>5</td>
</tr>
<tr>
<td>ENGR 124</td>
<td>Thermodynamics</td>
<td>5</td>
</tr>
</tbody>
</table>

**Total Units**: 124

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Students must normally complete all lower division preparation before enrolling in upper division Engineering or Civil Engineering courses.
3. At least two Civil Engineering electives must be design courses (indicated by 5).
Graduation Requirements

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
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<tr>
<td>Area B: Physical Universe and Its Life Forms (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>3</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
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<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area Course C</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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</tr>
<tr>
<td>Area D: The Individual and Society (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D1</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area E: Understanding Personal Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E1</td>
<td>Area E Course</td>
<td>3</td>
</tr>
<tr>
<td>Area F: Ethnic Studies (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F1</td>
<td>Area F Course</td>
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</tr>
<tr>
<td>Total Units</td>
<td>30</td>
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</table>

Graduation Requirements (required by Sacramento State) (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>F1</td>
<td>Race and Ethnicity in American Society</td>
<td>3</td>
</tr>
<tr>
<td>G1</td>
<td>Foreign Language Proficiency Requirement</td>
<td>3</td>
</tr>
</tbody>
</table>

MS in Civil Engineering

Total units required for the MS: 30 - Includes research or independent study and units required in area of specialization (see Program Requirements below)

Program Description

Civil Engineering encompasses a broad range of professional activities. The four years of undergraduate preparation for the Bachelor of Science degree are devoted to fundamental analytical principles and basic design applications. For technical competence in specialized areas and continued effectiveness on the job, graduate study is becoming increasingly necessary.

The Civil Engineering Department offers a graduate program of study leading to a Master of Science degree in Civil Engineering in the following areas of specialization:

- **Environmental Engineering** - analysis, design, and management of natural and engineered water systems including drinking water, wastewater, and stormwater; solid and hazardous waste management and regulations; air quality management and pollution control technologies;
- **Geotechnical Engineering** - properties and behavior of soil; seepage analysis with application to design of foundation, retaining structures, earth dams and slopes; soil improvement and ground stabilization; geosynthetics inclusions, soil dynamics, and earthquake engineering;
- **Structural Engineering** - advanced structural analysis methods; structural systems; advanced concrete and steel analysis and design applied to buildings and bridges; seismic analysis and design;
- **Transportation Engineering** - transportation engineering and planning, traffic flow theory, and system management applicable to all modes with emphasis on highway and multi modal transportation; interdisciplinary study with other areas of civil engineering as well as with non-engineering areas may also be arranged; and
- **Water Resources Engineering** - advanced hydraulics and hydrologic design and analysis of water systems, modeling of hydraulic and

Electives are to be chosen from these courses in consultation with a faculty advisor and must include at least two design electives (indicated by 2).

Note: Other electives, such as a CE 196 series course or CE 199E may be chosen with the approval of a faculty advisor and Department Chair.

Indicates a design elective.

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
hydrologic water systems, hydrometeorology analysis, steady and non-steady analysis of groundwater movement of confined and unconfined aquifers, modeling of groundwater movement, and planning, management, and operation of water resource systems.

The MS in Civil Engineering consists of a choice of courses within a specialization, a choice of elective courses, a writing intensive course, a mathematics or statistics course, and culminating requirements; all selected by the student and approved by an advisor.

**Admission Requirements**

Admission as a classified graduate student in Civil Engineering requires:

- an undergraduate degree in Civil Engineering; and
- a minimum 2.8 GPA.

In addition, the merit of past academic endeavor and/or professional experience, potential for future study, and professional goals may also be considered for granting admission through submission of the civil engineering department supplemental application form.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status.

Students with a baccalaureate degree in engineering majors other than Civil Engineering (e.g., Electrical and Electronic, Industrial, Mechanical, or Surveying) or in other non-engineering scientific disciplines (e.g., Mathematics, Physics, or Geology) who wish to pursue the graduate program in Civil Engineering may be considered on an individual basis. Such students may be admitted as conditionally classified students and will be required to complete a specifically designed list of undergraduate prerequisite courses in engineering and/or mathematics, physics, and chemistry to correct undergraduate deficiencies. Such a student must have an approved study program on file with the Department while undertaking this qualifying work. Upon completion of these courses with a GPA of 2.8 or better, the student may apply for classified graduate status in Civil Engineering.

**Admission Procedures**

All prospective graduate students, including Sacramento State graduates, must submit:

- an online application for admission; and
- one set of official transcript from all colleges and universities attended, other than Sacramento State.
- Civil Engineering department supplemental application form included in the online application.
- GRE test score if a student does not have an ABET-accredited engineering degree.
- GRE test score if a student does not meet the minimum 2.8 GPA requirement.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://csus.edu/gradstudies/).

After being admitted, students must meet with an advisor and complete a Graduate Student Advising Form (obtainable in the Civil Engineering Department). This advising form must be kept current and on file in the Department Office.

**Minimum Units and Grade Requirements for the Degree**

Total units Required for the MS: 30; includes research or independent study and units required in specializations (see Program Requirements below)

Minimum Cumulative GPA: 3.0. No course in the program of study may have a grade below "C+".

**Advancement to Candidacy**

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the graduate student has:

- removed any deficiencies in admission requirements;
- obtained classified graduate status;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least three courses at the 200-level;
- taken the Graduate Writing Intensive (GWI) course in the degree program within the first two semesters of coursework at California State University, Sacramento; and
- selected and obtained approval for a culminating requirement (Plan A, B, or C).

Advancement to Candidacy form is submitted online. The student fills out the form after planning a degree program in consultation with their faculty advisor. The completed form is then approved by the Graduate Coordinator of the Department and submitted to the Office of Graduate Studies. Any subsequent deviations from an approved Advancement to Candidacy form would require the submission of a petition for exception form.

All graduate degree programs are subject to general University requirements for graduate degrees, explained in the Graduate Degree Requirements section of this catalog.

**Program Requirements**

Total number of required units for degree is 30. Variable units are listed due to variable culminating requirement units.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>15</td>
<td>Specialization Courses (15 Units)</td>
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<tr>
<td>ENGR 201</td>
<td>Engineering Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 202</td>
<td>Engineering Analysis II</td>
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</tr>
<tr>
<td>ENGR 203</td>
<td>Engineering Statistics</td>
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<tr>
<td>CE 200</td>
<td>Civil Engineering Professional Writing</td>
<td>3</td>
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<tr>
<td>3</td>
<td>Elective Courses (3-6 Units)</td>
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</tr>
<tr>
<td>3</td>
<td>Culminating Requirement (3-6 Units)</td>
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</tr>
</tbody>
</table>

Plan A
Master's Thesis (3 or 6 units) Approval by the faculty thesis advisor and by a second faculty or an expert in the area of study is required. The thesis must comply with University standards for format and is filed in the University Library. The Master's Thesis should be the written product of a systematic study of a significant problem. It identifies the problem, states the major assumptions, explains the significance of the undertaking, sets forth the sources for and methods of gathering information, analyze the data, and offers a conclusion or recommendation. The finished product evidences originality, critical and independent thinking, appropriate organization and format, and thorough documentation. The work should be associated with engineering research or innovation. No more than 3 units may be awarded for a topic directly related to a topic studied of CE 299. A public presentation is required.

Plan B

Master's Project (3 or 6 units) Approval by the faculty thesis advisor and by a second faculty or an expert in the area of study is required. A Master's Project should be a significant undertaking appropriate to the engineering profession. It evidences originality and independent thinking, appropriate form and organization, and rationale. It is described and summarized in a written report that includes a discussion of the project's significance, objectives, methodology and a conclusion or recommendation. The work should be associated with practical engineering applications. The report must comply with University standards for format and will be filed in the University Library. No more than 3 units may be awarded for a topic directly related to a topic studied for CE 299. A public presentation is required.

Plan C

Directed Study with Comprehensive Exam (3 units). Approval by one faculty member is required for Directed Study. The comprehensive examination is administered by a committee of three faculty members. A written report and a public presentation are required on the directed study. The format of the comprehensive examination can be written, oral, or both.

1 With advisor approval. Students pursuing an emphasis in Environmental Engineering, Water Resource Engineering or Transportation Engineering must take ENGR 203. Students pursuing an emphasis in Structural Engineering must take ENGR 201 or ENGR 202.

2 Elective courses (including CE 299) selected with prior approval of the student's faculty advisor in the area of interest. In addition to 200-level courses, these may also include the technical electives (but not the required courses) from the civil engineering undergraduate curriculum. Not more than 3 units of CE 299 may be taken without prior approval of the Graduate Coordinator.

3 Total required units for degree is 30. Variable units are listed due to variable culminating requirement units. If 3 units of culminating requirement are selected, 6 units of electives are required, and vice versa.

Specialization Courses

Units required: 15 – a minimum of 12 units must be taken from one of the following five areas of specialization. Up to 3 units can be satisfied by 200 level coursework (not including CE 299) outside the chosen area of specialization.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CE 232</td>
<td>Groundwater Hydrology</td>
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<tr>
<td>CE 251</td>
<td>Environmental Quality Processes I</td>
<td></td>
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<tr>
<td>CE 252</td>
<td>Environmental Quality Processes II</td>
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<tr>
<td>CE 253</td>
<td>Environmental Quality Processes III</td>
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<tr>
<td>CE 254</td>
<td>Water Quality Management</td>
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<tr>
<td>CE 255</td>
<td>Transport of Chemicals in Soil Systems</td>
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</tr>
<tr>
<td>CE 281</td>
<td>Systems Analysis of Resources Development</td>
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Geotechnical Engineering

<table>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CE 270</td>
<td>Advanced Soil Mechanics and Foundation Engineering I</td>
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<tr>
<td>CE 271</td>
<td>Advanced Soil Mechanics and Foundation Engineering II</td>
<td></td>
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<tr>
<td>CE 272</td>
<td>Geotechnical Modeling</td>
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<tr>
<td>CE 273</td>
<td>Ground Modification Engineering</td>
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<tr>
<td>CE 274</td>
<td>Soil Dynamics and Earthquake Engineering</td>
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</tr>
<tr>
<td>CE 275</td>
<td>Geosynthetics</td>
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</table>

Structural Engineering

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>CE 260</td>
<td>Matrix Structural Analysis</td>
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<tr>
<td>CE 261</td>
<td>Finite Element Analysis</td>
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</tr>
<tr>
<td>CE 262</td>
<td>Nonlinear Structural Analysis</td>
<td></td>
</tr>
<tr>
<td>CE 263</td>
<td>Advanced Steel Design</td>
<td></td>
</tr>
<tr>
<td>CE 264</td>
<td>Advanced Design in Reinforced Concrete</td>
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</tr>
<tr>
<td>CE 266</td>
<td>Dynamics and Earthquake Response of Structures</td>
<td></td>
</tr>
<tr>
<td>CE 267</td>
<td>Structural Systems for Buildings</td>
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</tr>
<tr>
<td>CE 268</td>
<td>Pre-stressed Concrete Bridge Design</td>
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Transportation Engineering

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CE 241</td>
<td>Analysis and Control of Traffic Systems</td>
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</tr>
<tr>
<td>CE 242</td>
<td>Transportation Planning</td>
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<tr>
<td>CE 243</td>
<td>Traffic Flow Theory</td>
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<tr>
<td>CE 244</td>
<td>Advanced Transportation Facility Design</td>
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</tr>
<tr>
<td>CE 245</td>
<td>Pavement Design</td>
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</tr>
<tr>
<td>CE 275</td>
<td>Geosynthetics</td>
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Water Resources Engineering

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<tr>
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<td>CE 231</td>
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<td>CE 232</td>
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<tr>
<td>CE 281</td>
<td>Systems Analysis of Resources Development</td>
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</table>

Computer Engineering

College of Engineering and Computer Science

Program Description

Computer Engineering is one of the newest areas of engineering, a dynamic field that thrives on innovation and challenges. Business, industry, and home applications create the need for products that often can be used both for work as well as for entertainment. In the high technology areas of the United States, Sacramento included, Computer Engineering has experienced tremendous growth, becoming one of the major driving forces behind the rapidly advancing electronics and
computer industry. Employment projections consistently predict that computer engineering and computer science will continue to experience more than a doubling of growth in a ten-year period.

Nationally, nearly all engineering universities offer a degree in Computer Engineering. Being close in course content to Electrical Engineering and to Computer Science, these degrees are found in various departmental and program configurations. At Sacramento State, Computer Engineering enjoys the advantage of both areas since it is a program jointly supported by the Electrical and Electronic Engineering Department and the Computer Science Department.

Lower division preparation in Computer Engineering parallels that of Computer Science, with the addition of a basic electrical circuit course and a logic design course. Except for the logic design course, most community colleges offer sufficient lower division courses in mathematics, chemistry, physics, and most importantly, computer science.

Degree Programs
BS in Computer Engineering (p. 593)
MS in Computer Engineering (p. 595)

Accreditation
In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Computer Engineering is also individually accredited by ABET, Inc.

Notice to Students RE: Professional Licensure and Certification
California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features
• Due to numerous generous donations from supportive industries, the computer engineering labs are well equipped with servers and workstations, and with software development tools for VLSI application-specific integrated circuits. Industries donate large electronic devices (FPGAs, CPUs) to each student in computer engineering laboratories.
• The Sacramento State Computer Engineering BS degree is accredited by the Engineering Accreditation Commission (EAC) of ABET, www.abet.org (http://www.abet.org/). Computer Engineering faculty value accreditation very highly.
• A mechanism of maintaining currency in technology, curriculum review, and outcomes assessment is in place to assure the university and graduates of the continued growth and high quality of the program.

Program Educational Objectives
The Computer Engineering Program’s specific educational objectives are to educate graduates that possess:
1. Core Knowledge: Our graduates will have careers in computer engineering, or be engaged in a related career path.
2. Application of Knowledge: Our graduates will apply their knowledge and skills to solve practical engineering problems.
3. Lifelong Learning: Our graduates will continue to develop their skills and seek knowledge after graduation in order to adapt to advancing technology and the needs of society. This may be indicated by the graduate's pursuit of an advanced degree or other formal instruction, and/or that the graduate has developed a professional specialty.
4. Professionalism: Our graduates will have the necessary professional skills, such as high ethical standards, effective oral and written communications, and teamwork, to be productive engineers and to advance in their careers.

Career Possibilities
Computer Engineer · Computer Architect · ASIC Designer · Chip Architect · VLSI Engineer · Real Time System Design Engineer · Design Engineer · Hardware Engineer · Software Engineer · Systems Engineer · Applications Engineer · Networking Engineer · Control Engineer · Marketing Engineer · Data Communications Engineer · Project Engineer · Research Engineer · Consulting Engineer · Test Engineer · Production Engineer · Telecommunications Engineer · Solid State Engineer · DSP Engineer

Contact Information
Xiaoyan "Sherry" Sun, Program Coordinator
Email the Computer Engineering Program Coordinator (xiaoyan.sun@csus.edu) or (916) 278-6139
Jessica Bush, Administrative Support Coordinator
Riverside Hall 3018
(916) 278-6873
Computer Engineering Program Website (https://www.csus.edu/college/engineering-computer-science/computer-engineering/)

Faculty
DAHLQUIST, DENNIS
ELTAYEB, MOHAMMED (Spring Semesters)
GHANSAH, ISAAC
HEEDLEY, PERRY
MEDURI, PRAVEEN
OUYANG, JINSONG
SHOBAKI, GHASSAN
SUN, XIAOYAN
TATRO, RUSS
VADHVA, SURESH
CPE 64. Introduction to Logic Design. 4 Units
Prerequisite(s): CSC 15 or CSC 25 or ENGR 50.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Covers the following topics: logic gates, binary number system, conversion between number systems, Boolean algebra, Karnaugh maps, combinational logic, digital logic design, flip-flops, programmable logic devices (PLDs), counters, registers, memories, state machines, designing combinational logic and state machines into PLDs, and basic computer architecture. Lab emphasizes the use of software equation entry design tools, the use of a schematic entry, and the use of a logic simulation design tool. Lab assignments are design-oriented. Lecture three hours; laboratory three hours.
Cross listed: EEE 64

CPE 64P. Peer-Assisted Learning CPE 64. 1 Unit
Corequisite(s): CPE 64
Term Typically Offered: Fall, Spring

Students concurrently enrolled in CPE 64 work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of CPE 64 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success.
Credit/No Credit

CPE 64W. Introduction to Logic Design Workshop. 1 Unit
Corequisite(s): CPE 64
Term Typically Offered: Fall, Spring

Designated to assist students in developing a more thorough understanding of logic simulation and logic design. Focus is on problem solving and design. Activity two hours.
Cross Listed: EEE 64W; only one may be counted for credit.
Credit/No Credit

CPE 138. Computer Networking Fundamentals. 3 Units
Prerequisite(s): CSC 35, CSC 60, CSC 130. Not currently enrolled in CSC/CPE 138.
Term Typically Offered: Fall, Spring

Cross Listed: CSC 138; only one may be counted for credit.

CPE 139. Operating System Pragmatics. 3 Units
Prerequisite(s): CSC 137 or CPE 166 and CPE 185.
Term Typically Offered: Fall, Spring

Design and performance issues of computers. Instruction set architecture, computer arithmetic, processor design, survey of contemporary architectures, interfacing I/O devices, hierarchal memory design and analysis, parallelism and multiprocessing, distributed systems, techniques for enhancing performance, and an introduction to EDA tools for design and verification of computers. Design and simulation of a microcomputer in an HDL.
Note: Open to students with full CSC or CPE major standing only. Cross Listed: CPE 142; only one may be counted for credit.

CPE 142. Advanced Computer Organization. 3 Units
Prerequisite(s): CSC 137 or CPE 166 and CPE 185.
Term Typically Offered: Fall, Spring

Introduction to CMOS logic gates and the design of CMOS combinational and sequential functions at the gate level, including CMOS memory. CMOS transistor theory is covered including: DC equations, threshold voltage, body effect, subthreshold region, channel length modulation, tunneling, and punch through. A basic exposure to VLSI includes: CMOS processing technology, layout, and CMOS logic design including power, delay and timing considerations. Students will use industry standard Computer Aided Design tools to verify designs and layouts.

CPE 144. Dsp Architecture Design. 3 Units
Prerequisite(s): CPE 142.
Term Typically Offered: Fall, Spring

Discrete Fourier Transform, and Fast Fourier Transform. Emphasis on hardware design to achieve high-speed real and complex multiplications and additions. Pipelining, Harvard, and modified Harvard architectures are included. Concludes with architectural overviews of modern DSP applications: modems, speech processing, audio and video compression and expansion, and cellular.

CPE 151. CMOS and Digital VLSI Design. 3 Units
Prerequisite(s): CPE 64 and EEE 108.
Term Typically Offered: Fall, Spring

Review basic CMOS VLSI technology, circuit characterization and performance estimation, and provides detailed information on synthesis, placement and routing, clocking strategies, quality and reliability, and I/O structures. Design examples, design techniques, and testing techniques will be presented via current EDA design tools. Students assigned one project from concept design through validation.

CPE 153. Vlsi Design. 3 Units
Prerequisite(s): CPE 151.
Term Typically Offered: Fall, Spring

CPE 166. Advanced Logic Design. 4 Units
Prerequisite(s): CPE 64, ENGR 17.
Term Typically Offered: Fall, Spring

VHDL and Verilog Hardware Description Languages are studied and used on the following advanced level logic design topics: synchronous state machines, asynchronous state machines, metastability, hazards, races, testability, boundary scan, scan chains, and built-in self-tests. Commercial Electronic Design Automation (EDA) tools are used to synthesize lab projects containing a hierarchy of modules into Field Programmable Gate Arrays (FPGAs). Post synthesis simulations by these same tools verify the design before implementation on rapid prototyping boards in the lab.

CPE 185. Computer Interfacing. 4 Units
Prerequisite(s): CPE 64, CSC 35 and CSC 60.
Term Typically Offered: Fall, Spring

Design of microcomputer systems including memory systems, parallel and serial input/output, timer modules, and interrupt structures; designing "C" language code, in laboratory, to exercise interface modules of parallel and serial input/output, timer modules, and interrupts; extensive study of interrupt handlers, assemblers, linkers, and loaders. Practical features of interfaces, handshaking techniques, displays, keypads, and trackballs are included.

CPE 186. Computer Hardware System Design. 3 Units
Prerequisite(s): CPE 185 or EEE 174.
Term Typically Offered: Fall, Spring

Study of Intel and Motorola architectures, bus structures, interrupts, memory interface and controllers, bus arbitration, DMA controllers, I/O interface, bridges and microcontroller. Electromagnetic compatibility and regulations, cabling and shielding, grounding, digital circuit noise and layout.

CPE 187. Embedded Systems Design. 3 Units
Prerequisite(s): CPE 185 or EEE 174.
Term Typically Offered: Fall, Spring

Introduction to embedded systems with applied projects. The ISA, memory map, register architecture and configuration for one processor are studied in depth. Topics include: Overview of embedded systems; hardware, firmware, and software design; interrupt programming; application of contemporary interfacing protocols like USB and Bluetooth; use of an integrated development environment (IDE) for development; functional debugging; Real Time Operating Systems (RTOS) considerations and scheduling. One two hour lecture and one three hour lab per week.

CPE 190. Senior Design Project I. 2 Units
Prerequisite(s): CPE 166, CPE 187, EEE 108
Corequisite(s): CPE 142
Term Typically Offered: Fall, Spring

Centers on developing hardware and software project planning and engineering design skills. Emphasis is placed on design philosophies, problem definition, project planning and budgeting, written and oral communication skills, working with others in a team arrangement, development of specifications and effective utilization of available resources. Lecture one hour per week, laboratory three hours per week.

CPE 191. Senior Design Project II. 2 Units
Prerequisite(s): CPE 190, and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 190M or ENGL 109W).
Term Typically Offered: Fall, Spring

Continuation of CPE 190. Students are expected to complete the project started by design teams in CPE 190. The hardware will be completed, tested and redesigned if necessary. At the same time, software for the project will be finished and debugged. The final results of the team project will be presented to the CPE faculty and students at a prearranged seminar. Lecture one hour, laboratory three hours.

CPE 195. Fieldwork in Computer Engineering. 1 - 15 Units
Prerequisite(s): Petition approval by Program Coordinator.
Term Typically Offered: Fall, Spring

Directed observations and work experience in computer engineering with firms in the industry or public agencies. Supervision is provided by the instructional staff and the cooperating agencies. Faculty approval required.

Credit/No Credit

CPE 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CPE 195B. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CPE 195C. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CPE 199. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Open only to those students who appear competent to carry on individual work. Admission to this course requires approval of the faculty member under whom the individual work is to be conducted, in addition to the approval of the advisor. May be repeated for credit.
CPE 201. Research Methodology.  2 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Summer

Immersion in the discourse of Computer Engineering: genres, literacies, stylistic conventions, research methodology. Collective and individual study of selected issues and problems relating to fields of study in the Computer Engineering. Orientation to the requirements for the master's degree culminating experience.
Note: Must be taken in the first semester of the graduate program.

Credit/No Credit

CPE 273. Hierarchical Digital Design Methodology.  3 Units
Prerequisite(s): CSC 205, EEE 285 or their equivalents.
Term Typically Offered: Fall, Spring

Advanced logic modeling, simulation, and synthesis techniques. Topics include modeling, simulation, and synthesis techniques, using Hardware Description Language (HDL’s), Register Transfer Level (RTL) representation, high level functional partitioning, functional verification and testing, computer-aided logic synthesis, logical verification and testing, timing and delay analysis, automated place and route process’, and design with Application Specific Integrated Circuits (ASICs) and programmable logic.

CPE 274. Advanced Timing Analysis.  3 Units
Prerequisite(s): EEE 273, CSC 273, CPE 273 or instructor permission.
Term Typically Offered: Fall, Spring

Timing analysis of Application Specific Integrated Circuit (ASIC) designs: Topics include ASIC design methodology, static timing analysis, timing design constraints, design reports, clock timing issues, timing exceptions, operating conditions, hierarchical analysis, analyzing designs with asynchronous logic, performance measurement and power issues. Cross-listed: EEE 274; only one may be counted for credit.

CPE 280. Advanced Computer Architecture.  3 Units
Prerequisite(s): CSC 205, fully satisfied graduate status.
Term Typically Offered: Fall, Spring

Introduction to parallel architecture covering computer classification schemes, fine and course grain parallelism, processor interconnections, and performance issues of multiprocessor systems. Includes parallel and pipelined instruction execution, structure of multiprocessor systems, memory hierarchy and coherency in shared memory systems, programming issues of multiprocessor systems, arithmetic pipeline design, and design for testability.

CPE 296T. Digital Speech Processing.  3 Units
Prerequisite(s): EEE 181 or instructor permission.
Term Typically Offered: Fall, Spring

The objective of this course is to cover the digital processing of speech signals. Topics include speech production and perception, speech processing in the time frequency domains. Short-time energy and Short-time Fourier analysis, homomorphic and linear predictive coding methods. Also covered are speech coding, basic introduction of text-to-speech synthesis and speech recognition. Cross listed: EEE 296T.

CPE 299. Special Problems.  1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Open to qualified students who wish to pursue problems of their own choice. Projects must have approval and supervision of a faculty advisor.

CPE 500. Culminating Experience.  5 Units
Prerequisite(s): Advanced to candidacy and graduate coordinator’s permission.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the master’s degree.
Note: May be repeated for credit.

BS in Computer Engineering

Units required for Major: 97
Total units required for the BS: 124

Program Description

The Bachelor of Science degree in Computer Engineering is a four-year program that emphasizes engineering design of computer hardware and systems at all levels. Engineering design begins with logic design taught to entering students during their first semester. The thread of design continues through the study of architecture, CMOS and VLSI technology, ASIC design, operating systems, computer hardware design, and networking hardware. To complete their degree, students take a two-semester senior design and project course.

Program Requirements

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<tr>
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<tr>
<td>CPE 64</td>
<td>Introduction to Logic Design ¹</td>
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<tr>
<td>MATH 45</td>
<td>Differential Equations for Science and Engineering</td>
<td>3</td>
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<tr>
<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism</td>
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<td>CSC 60</td>
<td>Introduction to Systems Programming in UNIX</td>
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FIRST SEMESTER SOPHOMORE YEAR

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<tr>
<td>CPE 28</td>
<td>Discrete Structures for Computer Science</td>
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<td>ENGR 17</td>
<td>Introductory Circuit Analysis</td>
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<td>ENGL 20</td>
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<tr>
<td>CSC 130</td>
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SECOND SEMESTER SOPHOMORE YEAR

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<td>ENGR 1</td>
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<td>ENGL 5</td>
<td>Accelerated Academic Literacies ²</td>
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SECOND SEMESTER FRESHMAN YEAR

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<td>MATH 31</td>
<td>Calculus II</td>
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<td>MATH 32</td>
<td>Calculus III</td>
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<td>PHYS 11A</td>
<td>General Physics: Mechanics ¹</td>
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FIRST SEMESTER FRESHMAN YEAR

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<td>CSC 20</td>
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<td>MATH 54</td>
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FIRST SEMESTER JUNIOR YEAR

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<td>Introductory Circuit Analysis</td>
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<td>College Composition II</td>
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<td>Advanced Logic Design</td>
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<tr>
<td>CPE 185</td>
<td>Computer Interfacing</td>
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<td>ENGR 140</td>
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<td>EEE 117</td>
<td>Network Analysis</td>
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<td><strong>SECOND SEMESTER JUNIOR YEAR</strong></td>
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<tr>
<td>CPE/CSC 142</td>
<td>Advanced Computer Organization</td>
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<td>EEE 108</td>
<td>Electronics I</td>
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<td>EEE 108L</td>
<td>Electronics I Laboratory</td>
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<td>EEE 180</td>
<td>Signals &amp; Systems</td>
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<td>CPE 187</td>
<td>Embedded Systems Design</td>
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<td><strong>FIRST SEMESTER SENIOR YEAR</strong></td>
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<tr>
<td>CPE 151</td>
<td>CMOS and Digital VLSI Design</td>
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<td>CSC 139</td>
<td>Operating System Principles</td>
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<td>ENGR 120</td>
<td>Probability and Random Signals</td>
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<td>CPE/CSC 138</td>
<td>Computer Networking Fundamentals</td>
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<td>CPE 144</td>
<td>Dsp Architecture Design</td>
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<td>CPE 153</td>
<td>Vlsi Design</td>
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<td>CSC 131</td>
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<td>CSC 133</td>
<td>Object-Oriented Computer Graphics Programming</td>
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<td>CSC 134</td>
<td>Database Management Systems</td>
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<td>CSC 151</td>
<td>Compiler Construction</td>
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<td>CSC 152</td>
<td>Cryptography</td>
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<td>CSC 153</td>
<td>Computer Forensics Principles and Practices</td>
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<td>Computer System Attacks and Countermeasures</td>
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<td>Robotics</td>
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<td></td>
<td><strong>Technical Elective II Choices</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(select one of the following)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CSC 154</td>
<td>Computer System Attacks and Countermeasures</td>
</tr>
<tr>
<td></td>
<td>CPE/CSC 159</td>
<td>Operating System Pragmatics</td>
</tr>
</tbody>
</table>

**Required Lower Division Courses (23 UNITS, Included Above)**

**Required Mathematics Courses - Included Above (11 UNITS: Math 30, Math 31 and Math 45)**

**Additional Required Courses - Included Above (13 UNITS: ENVS 10, ENGR 140, PHYS 11A, PHYS 11C)**

**Required Upper Division Courses (44 UNITS - Included Above)**

---

**Tech Electives I and II (6 UNITS: Included Above)**

**Total Units** 124

1. Course also satisfies General Education (GE)/Graduation Requirement.

**Note:**
- Students are expected to satisfy the general education requirements of the Accreditation Board for Engineering and Technology (ABET) as well as the University's General Education requirements. Students should consult the Program Coordinator for specific General Education requirements.
- A second-year foreign language course (2A or equivalent) may also satisfy 3 units of GE when the course is being taken to comply with the Sacramento State foreign language requirement. Students should consult with an advisor for exact GE eligibility of these courses.

2. ENGL 10 and ENGL 11 may be taken in lieu of ENGL 5 (only 3 units will be counted towards degree)

**General Education Requirements 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A1  - Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A2  - Written Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A3  - Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area B: Physical Universe and Its Life Forms</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B1  - Physical Science 2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>B2  - Life Forms 2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>B3  - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) 2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>B4  - Math Concepts 2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>B5  - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements. 2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Area C: Arts and Humanities (12 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C1  - Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>C2  - Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>C1/C2 - Area Course C</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area D: The Individual and Society (6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements. 2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Area E: Understanding Personal Development</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Area E Course</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Area F: Ethnic Studies (3 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Area F Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units** 30
To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

**Graduation Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Writing Intensive (WI)</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Graduation Requirements (required by Sacramento State) (6 Units)</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Basic Knowledge**

A student must have completed the following list of Required Basic Knowledge before becoming a fully classified graduate student in Computer Engineering. Courses listed in parentheses are the equivalent Sacramento State courses.

Minimum required GPA in the following subject areas: 3.0

- Electrical Fundamentals
- Analog/Digital Electronics
- CMOS and VLSI
- Digital Logic Design and Introduction to Computer Organization
- Assembly Language
- Computer Interfacing
- Object Oriented Programming
- Algorithms and Data Structure
Graduate Admission Procedures

Applications will be accepted as long as there is space available. All prospective graduate students, including Sacramento State graduates, must file all of the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for graduate admission and fee at the time of application;
- one set of official transcripts from colleges and universities attended, other than Sacramento State; and
- Graduate Record Examination (GRE) scores;

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

Minimum Units and Grade Requirement for the Degree

Units required for the MS: 30

Minimum cumulative GPA: 3.0. Up to three courses in the program of study may have a grade of "C+" or "B-". All other courses in the program of study must have a grade of "B" or higher.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in the admission requirements;
- completed at least 12 units of graduate level (200 series) Computer Engineering courses with a minimum 3.0 GPA; and
- complete a Graduate Writing Intensive (GWI) course in their discipline with a grade of "B" or better at California State University, Sacramento.

Students must have been advanced to candidacy before they can register for Plan A, B or C. The student should fill out the form after planning a degree program in consultation with a Computer Engineering graduate advisor. The completed form must be signed by the CPE Graduate Coordinator and is then returned to the Office of Graduate Studies for approval.

Note: It should be recognized that the industry puts a high value on project and thesis problem-solving experience, and the demonstration of technical writing skills that these options require. Graduating under the Plan C option will not provide that experience. Students taking this option should consider, with their elective area advisors, other ways of gaining that valuable experience, such as through a CPE 299 Special Problems course.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Required Core Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CPE 201</td>
<td>Research Methodology</td>
<td>1</td>
</tr>
<tr>
<td>CSC/EEE 273</td>
<td>Hierarchical Digital Design Methodology</td>
<td></td>
</tr>
<tr>
<td>CSC 205</td>
<td>Computer Systems Structure</td>
<td>2</td>
</tr>
<tr>
<td>EEE 270</td>
<td>Advanced Topics in Logic Design</td>
<td>2</td>
</tr>
<tr>
<td><strong>B. Required Breadth Courses</strong></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Students must cover at least two from the following five areas with equal number from CSC and EEE courses:

**Algorithms and Applications**

- CSC 206 Algorithms And Paradigms
- EEE 221 Machine Vision
- EEE 225 Advanced Robot Control
- EEE 244 Electrical Engineering Computational Methods and Applications
- EEE 246 Advanced Digital Control

**Computer Architecture and Digital Design**

- CSC 242 Computer-Aided Systems Design and Verification
- EEE 272 High Speed Digital System Design
- EEE 274 Advanced Timing Analysis
- EEE/CSC 280 Advanced Computer Architecture
- EEE 285 Micro-Computer System Design I
- EEE 286 Microcomputer System Design II

**Microelectric Design**

- EEE 230 Analog and Mixed Signal Integrated Circuit Design
- EEE 231 Advanced Analog and Mixed Signal Integrated Circuit Design
- EEE 232 Key Mixed-Signal Integrated Circuit Building Blocks
- EEE 234 Digital Integrated Circuit Design
- EEE 235 Mixed-Signal IC Design Laboratory
- EEE 236 Advanced Semiconductor Devices
- EEE 238 Advanced VLSI Design-For-Test I
- EEE 239 Advanced VLSI Design-For-Test II

**Networks and Security**

- CSC 250 Computer Security
- CSC 253 Computer Forensics
- CSC 254 Network Security
- CSC 255 Computer Networks

**Systems Software**

- CSC 151 Compiler Construction
- CPE/CSC 159 Operating System Pragmatics
- CSC 239 Advanced Operating Systems Principles and Design

**C. CSC Elective**

Courses from Area B (Required Breadth Courses) or any 200-level CSC courses subject to meeting the required prerequisites.

**D. EEE Elective**

Courses from Area B (Required Breadth Courses) or any 200-level EEE courses subject to meeting the required prerequisites.
E. Culminating Requirement

<table>
<thead>
<tr>
<th>Plan A: Thesis (5 units) 5,6</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPE 500 Culminating Experience</td>
</tr>
</tbody>
</table>

Minimum 25 units of course work including 12 units from Area A (Required Core Courses), a minimum of 6 units from Area B (Required Breadth Courses), and a minimum of 3 units each from Area C (CSC Elective) and Area D (EEE Elective).

<table>
<thead>
<tr>
<th>Plan B: Project (2 units) 5,6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum 28 units of course work including 12 units from Area A (Required Core Courses), a minimum of 12 units from Area B (Required Breadth Courses), and a minimum of 4 units from the following options:</td>
</tr>
</tbody>
</table>

a) 3 units from Area C (CSC Elective) and 1 unit 299 from CPE or EEE;
b) 3 units from Area D (EEE Elective) and 1 unit 299 from CPE or CSC; or
c) 3 units from Area C (CSC Elective) and 3 units from Area D (EEE Elective).

<table>
<thead>
<tr>
<th>Plan C: Comprehensive Exam (0 units) 5,6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum 30 units of course work including 12 units from Area A (Required Core Courses), a minimum of 12 units from Area B (Required Breadth Courses), and a minimum of 3 units each from Area C (CSC Elective) and Area D (EEE Elective).</td>
</tr>
</tbody>
</table>

Total Units 30-32

1. All graduate students must concurrently take CPE 201 in the semester they take their first graduate course.
2. Students whose undergraduate degree preparation has covered a significant amount of the material in the course may be allowed to waive the course. The course waiver form must be approved by the Computer Engineering Coordinator. In this case, for each CSC course waived students must take an additional CSC course, and for each EEE course waived students must take an additional EEE course from Required Breadth Courses or Elective Courses to satisfy the program unit requirement.
3. Students whose undergraduate degree preparation has not covered a significant amount of the material in CSC 159/CPE 159 must take this course as one of the CSC Breadth Requirement courses.
4. No more than 6 units of under 200-level courses.
5. Additional units from Area B (Required Breadth Courses), Area C (CSC Elective), or Area D (EEE Elective), or 299, to fulfill the minimum course work units.
6. The Masters Degree requires 18 units of Graduate (200-level) seminar courses. No more than six units of 295, 296, or 299 may be counted towards a degree.

Information Security and Computer Forensics are available for students majoring in disciplines other than Computer Engineering.

The Department offers an MS in Computer Science and an MS in Software Engineering.

The Department also offers programs in conjunction with other units: with the Electrical and Electronic Engineering Department, a BS and an MS in Computer Engineering (refer to the Computer Engineering section of this catalog).

Degree Programs

Only matriculated students upon completing all the degree requirements are entitled to receive certificates. Certificates are not a priority and there are no guarantees that courses required for a certificate will be offered in time before graduation.

BS in Computer Science (https://catalog.csus.edu/colleges/engineering-computer-science/computer-science/bs-in-computer-science/)
Certificate in Game Engineering (https://catalog.csus.edu/colleges/engineering-computer-science/computer-science/certificate-in-game-engineering/)
Minor in Computer Science (https://catalog.csus.edu/colleges/engineering-computer-science/computer-science/minor-in-computer-science/)
MS in Computer Science (https://catalog.csus.edu/colleges/engineering-computer-science/computer-science/ms-in-computer-science/)
MS in Software Engineering (https://catalog.csus.edu/colleges/engineering-computer-science/computer-science/ms-in-software-engineering/)
Certificate in Advanced Studies (https://catalog.csus.edu/colleges/engineering-computer-science/computer-science/certificate-in-advanced-studies/)

Computer Science

College of Engineering and Computer Science

Program Description

The Bachelor of Science degree in Computer Science is accredited by the Computing Accreditation Commission (CAC) of ABET, Inc. (http://www.abet.org/), providing majors with a sound educational base in Computer Science. The Minor in Computer Science and the Minor in
Certificate in Computer Engineering (https://catalog.csus.edu/colleges/engineering-computer-science/computer-science/certificate-in-computer-engineering/)


Certificate in Data Mining (https://catalog.csus.edu/colleges/engineering-computer-science/computer-science/certificate-in-data-mining/)


Accreditation

In addition to the University's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Computer Science is also individually accredited by Computing Accreditation Commission (CAC) of ABET, Inc.

Notice to Students RE: Professional Licensure and Certification

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states' educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features

• The research interests of the department faculty span a broad spectrum of Computer Science including active databases, algorithm analysis, compilers, computer architecture, computer forensics, computer graphics and computer game design, computer networks and communications, computing theory, cryptography, data models and database management systems, data mining and machine learning, machine vision, artificial intelligence, distributed systems and real-time systems, formal methods, human-computer interfaces, information assurance and security, Internet and Web technologies, mobile and cloud computing, network security, operating systems, performance modeling and evaluation, programming languages and methodologies, software architecture, software project management, software requirements engineering, software system engineering, verification and validation, VLSI design.

• A large and heterogeneous network of Linux and Windows systems support the instructional programs. Specialized laboratories support systems, communications and networking, computer security, and computer architecture instruction.

• Majors are urged to join the student chapters of the Association for Computing Machinery (ACM) or the IEEE Computer Society. Students with high scholastic achievement may be invited to join Upsilon Pi Epsilon, the national honor society for Computer Science.

• The University's proximity to many California State agencies and major computer corporations provides numerous opportunities for part-time student employment as well as full-time employment after graduation.

Bachelor of Science Educational Objectives

Three to five years after graduation, a graduate of the B.S. in computer science should have:

1. Made contributions to the development, maintenance, and support of real world computing systems.
2. Taken initiative and assumed responsibilities as an effective member of project teams.
3. Worked independently and functioned effectively in an environment with incomplete information.
4. Progressed in the computing field, engaged in professional development, and/or pursued an advanced degree.
5. Produced quality technical and non-technical documents and presentations for a variety of audiences.
6. Adhered to the ethical standards of the profession and understood the implications of his/her professional activities.

Career Possibilities

Computer Scientist · Computer Engineer · Software Engineer · Computing Science Educator · Information Technology Specialist · Computer Systems Analyst · Scientific Application Programmer · Computer Operations Manager · Computer Services Coordinator · Database Administrator · Computer Game Developer · Data Communications Manager · Data Processing Manager · Data Processing Application Programmer · Network Administrator · Programmer Analyst · Software Requirements Engineer · Software Architect · Software Quality Assurance Specialist · Software Development Project Manager · Systems Manager · Systems Programmer · Computer Graphics Specialist · Knowledge Engineer · Systems Engineer · Cyber Security Specialist · Information Assurance Specialist · Information Security Officer · Data Mining Analyst · Web/eCommerce Developer · IT Business Analyst · IT Infrastructure Specialist · Technical Control Specialist · Technical Representative

Contact Information

Nikrouz Faroughi, Department Chair
Veronica Pruitt, Administrative Support Coordinator
Riverside Hall, Room 3018
(916) 278-6834
Faculty
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BAYNES, ANNA
CHEN, HAIQUAN (VICTOR)
CHENG, YUAN
DAI, JUN
FAROUGHI, NIKROUZ
GORDON, V. SCOTT
JIN, YING
KROVETZ, TED D.
MUYAN-OZCELIK, PINAR
OUYANG, JINGSONG
PHOULADY, PARHAM
SALEM, AHMED M.
SHOBAKI, GHASSAN
SUN, XIAOYAN
WANG, XUYU
YANG, JINGWEI
ZHANG, CUI

CSC 1. Introduction to Computer Science. 3 Units
Prerequisite(s): Intermediate algebra.
Term Typically Offered: Fall, Spring
Fundamental concepts of computers, computation and programming; history and principles of computing; problem solving; input, output; data representation, storage, and file organization; computer hardware, networking and data communication; social, economic and ethical implications; computer security and privacy. Students will solve problems using a programming language. Lecture, two hours; technical activity and laboratory, two hours.

CSC 1A. Introduction to Computer Science for Advanced Students. 3 Units
Term Typically Offered: Fall, Spring
Same material as covered in CSC 1 but intended for students who already have significant knowledge of the fundamental concepts of computers and/or computer programming. Students must attend the orientation session during the first class meeting. Two placement tests, one on programming and one on concepts, will be scheduled and used to determine student's prior preparation.
Note: May be taken by those wishing to obtain credit by examination. Please refer to examination credit guidelines in the University catalog. Not open to students who have received credit for CSC 1 or MIS 5.
Credit/No Credit

CSC 5. Personal Computing. 3 Units
Term Typically Offered: Fall, Spring
Introduction to the role and use of personal computers, emphasizing the use and relevancy of common software for word processing, database, spreadsheet analysis, graphics, and communications. Examination of the personal computing milieu and the applications environment. Lecture two hours, technical activity and laboratory two hours.

CSC 8. Introduction to Internet Technologies. 3 Units
Prerequisite(s): Basic computer literacy recommended.
Term Typically Offered: Summer only
Internet applications such as email, instant messaging, file transfer, secure communications, the web, and related tools and protocols. Basics of the web-publishing process and methods used to locate authoritative information on the internet. Webpage design, internet security and emerging technologies on the internet.

CSC 8S. Self-Paced Introduction to Internet Technologies. 3 Units
Prerequisite(s): Basic computer literacy recommended.
Term Typically Offered: Fall, Spring
Covers the same material as CSC 8, Introduction to Internet Technologies. Provided by electronic means in addition to meetings for orientation, laboratory demonstrations, and tests. Internet applications such as Email, instant messaging, file transfer, secure communications, the Web, and related tools and protocols. Basics of the Web-publishing process and methods used to locate authoritative information on the Internet. Webpage design, Internet security and emerging/declining technologies on the Internet.
Credit/No Credit

CSC 10. Introduction to Programming Logic. 3 Units
Prerequisite(s): Math 11 or equivalent
Term Typically Offered: Fall, Spring
Introduction to computer science with an emphasis on programming concepts and methodology. Intended to assist students with little or no programming experience to understand the basic principles of programming logic. Topics include computer hardware and software, problem solving and algorithm development, flow of control, modular design using techniques that can be applied to common programming languages. Lecture two hours, technical activity and laboratory two hours.

CSC 10A. Accelerated Introduction to Programming Logic. 3 Units
Term Typically Offered: Fall, Spring
Introduction to computer science with an emphasis on programming concepts, logic, and methodology: computer hardware and software, problem solving and algorithm development, flow of control, and modular design. Accelerated and more in-depth study of programming concepts than CSC 10. Intended for computer science and computer engineering majors who have little or no programming experience. Lecture two house, technical activity and laboratory, two hours. Not open to students who have received credit for CSC 10. Prerequisite: Math 11
CSC 15. Programming Concepts and Methodology I. 3 Units
Prerequisite(s): CSC 10, or programming experience in a high-level programming language. Not currently enrolled in CSC 15.
Term Typically Offered: Fall, Spring, Summer

Programming concepts using an object-oriented programming language. Introduction to methodologies for program design, development, testing, and documentation. Topics include program design, algorithm design, number systems, classes and objects, methods (functions), control structures, arrays, and interactive input/output. Lecture two hours, technical activity and laboratory two hours.

CSC 15P. Peer-Assisted Learning CSC 15. 1 Unit
Corequisite(s): CSC 15
Term Typically Offered: Fall, Spring

Students concurrently enrolled in CSC 15 work through faculty-designed problem sets under the guidance of a trained student facilitator to improve their understanding of CSC 15 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.
Credit/No Credit

CSC 15W. Programming Methodology I Workshop. 1 Unit
Corequisite(s): CSC 15.
Term Typically Offered: Fall, Spring, Summer

Designed to assist students in developing a more thorough understanding of programming methodology and problem solving techniques. Activity two hours.
Credit/No Credit

CSC 20. Programming Concepts and Methodology II. 3 Units
Prerequisite(s): CSC 15.
Term Typically Offered: Fall, Spring

Application of object-oriented techniques for systematic problem analysis and specification, design, coding, testing, and documentation. Semester-long project approach emphasizing larger programs. Managing program complexity using abstraction. Introduction to algorithm analysis and Big-O notation. Advanced language features. Basic sorting and searching algorithms. Recursion. Lecture two hours, technical activity and laboratory two hours.

CSC 20P. Peer-Assisted Learning CSC 20. 1 Unit
Corequisite(s): CSC 20.
Term Typically Offered: Fall, Spring

Students concurrently enrolled in CSC 20 work through faculty-designed problem sets under the guidance of a trained student facilitator to improve their understanding of CSC 20 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.
Credit/No Credit

CSC 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Development of information competence and computer literacy. Students interact with fellow students and the seminar leader to build a community of academic and personal support.

CSC 22. Visual Programming in BASIC. 3 Units
Prerequisite(s): Intermediate Algebra.
Term Typically Offered: Fall, Spring

Computer Programming using Visual Basic. Topics include the Visual Basic Integrated Development Environment, visual user interface development, concepts of object-oriented programming, variables, control structures, arrays, functions, subroutines, strings, files, and database access. Applications will be created in areas such as business, games, and multimedia. Lecture two hours, technical activity and laboratory two hours.

CSC 25. Introduction to C Programming. 3 Units
Term Typically Offered: Fall only

Topics include: types, operators, control structures, input/output, arithmetic operations, the C library and preprocessor, functions and parameters, arrays, strings, pointers, and structures. Program design and style will be emphasized. Students will use a compiler.
Note: Students with significant programming experience should take CSC 60 rather than CSC 25. Lecture two hours, technical activity and laboratory two hours.

CSC 28. Discrete Structures for Computer Science. 3 Units
Prerequisite(s): Score of 76 or higher on ALEKS PPL exam or MATH 26A or MATH 29 or MATH 29B or MATH 30; and CSC 20. CSC 20 and MATH 30 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to the essential discrete structures used in Computer Science, with emphasis on their applications. Topics include: counting methods, elementary formal logic and set theory, recursive programming, digital logic and combinational circuits, real number representation, regular expressions, finite automata.

CSC 35. Introduction to Computer Architecture. 3 Units
Prerequisite(s): CSC 15.
Term Typically Offered: Fall, Spring

Internal representation of numeric and non-numeric data, assembly level machine architecture, addressing modes, subroutine linkage, polled input/output, interrupts, high-level language interfacing, macros and pseudo operations. Lecture two hours, technical activity and laboratory two hours.
CSC 60. Introduction to Systems Programming in UNIX. 3 Units
Prerequisite(s): CSC 20, CSC 35.
Term Typically Offered: Fall, Spring
Features of the C language commonly used in systems programming, application to systems programming in a UNIX environment. Topics include C preprocessor macros, I/O, bit-manipulation facilities, timesharing system concepts, file permissions, shell script programming, make files and source code control, basic system calls like fork and exec, pointers and dynamic memory allocation, libraries and relocation and linking concepts including assembler handling of symbol tables. Prior knowledge of a C like programming language is presumed.

CSC 80. Web Development with HTML/XHTML and Tools. 3 Units
Prerequisite(s): CSC 8 or equivalent computer and Internet experience.
Term Typically Offered: Fall, Spring, Summer
Hands-on course covering the processes and guidelines for creating and customizing interactive webpages. Emphasis on use of HTML/XHTML, CSS, and tools to create webpages. HTML/XHTML syntax to create, format, and link documents. Use of tables, graphics, styles, forms, multimedia, and other features in webpages. Effective webpage design and website organization. Lecture two hours and technical activity and laboratory two hours.

CSC 110. Introduction to Programming Logic for Teachers. 3 Units
Term Typically Offered: Fall, Spring, Summer
An introduction to computer science with an emphasis on programming concepts and methodology. Intended to assist students with no programming experience to understand the basic principles of programming logic for computational thinking. Programming language is blocky-style. Topics include: computer devices and software, programming concepts and methodology, blocky-style programming, K-12 computer science curriculum development for introduction to computational thinking.

CSC 111. Programming Concepts and Methodology for Teachers. 4 Units
Prerequisite(s): CSC 110
Term Typically Offered: Fall, Spring, Summer
Computer science teacher professional development based on equity, curriculum development, and computer science. Programming languages including blocky-style, web, and an object-oriented programming language. Introduction to computer science methodologies for program design, development, testing, and documentation. Computer science content includes program design, algorithm design, number systems, classes and objects, methods, control structures, arrays, and simple interactive input/output. Pedagogical content includes strategies for teaching and retaining students by developing engaging learning experiences and designing student assessment in computer science.

CSC 112. Data Structures, Algorithms, and Software Engineering for Teachers. 3 Units
Prerequisite(s): CSC 111
Term Typically Offered: Fall, Spring, Summer
Introduction of data structures, algorithms, and software engineering to give teachers the background to lead instruction in computer science curriculum. Topics include linked lists, queues, sets, algorithm analysis, recursion, basic searching, and sorting. Software Engineering topics include the methodologies and techniques in planning, engineering and implementing a software system to solve a problem, and social, ethical, and legal impacts of computing. Pedagogical content includes strategies for teaching students by developing engaging learning experiences in computer science.

CSC 113. Computer Networking and Cyber Security for Teachers. 3 Units
Prerequisite(s): CSC 110 and CSC 111. Not currently enrolled in CSC 113.
Term Typically Offered: Fall, Spring, Summer
Introduction to basic components of digital devices and computing systems. Overview, structure, and types of computer networks. The layered model of networks and common protocols in each layer, such as HTTP and IP. Introduction to common network applications such as web, email, and videos. Common cyber security problems and solutions. Cyber safety. Pedagogical content includes strategies for teaching and retaining students by developing engaging learning experiences and designing student assessment in computer science.

CSC 114. Digital Evidence and Computer Crime. 3 Units
Prerequisite(s): CSC 1 and CSC 8 or CSC 8S or CSC 80; or instructor permission.
Term Typically Offered: Fall, Spring
Topics include technology and law, computer basics for digital investigations, network basics for digital investigations, investigation of computer crime, and the handling of digital evidence.

CSC 115. Internet Security. 3 Units
Prerequisite(s): CSC 1 and CSC 8 or CSC 8S or CSC 80; or instructor permission.
Term Typically Offered: Summer only
Internet security problems and discussion of potential solutions: network vulnerabilities and attacks, secure communication and use of cryptography, Internet security protocols and tools to defend against network attacks, network intrusion detection, and wireless network security. Survey and use of software tools for network security.

CSC 116. Cyber Forensics. 3 Units
Prerequisite(s): CSC 1 and CSC 8 or CSC 8S or CSC 80; or instructor permission.
Term Typically Offered: Summer only
Fundamentals of computer forensics and cyber-crime scene analysis including laws, regulations, and international standards; formal methodology for conducting security incident investigations; categories of electronic evidence. Projects involving digital forensic tools.
CSC 120. Web Server Administration. 3 Units
Prerequisite(s): CSC 80.
Term Typically Offered: Fall, Spring
Managing and maintaining Web servers. Administering open source and commercial Web servers, Web hosting alternatives, professional standards and practices of hosting, Web server installation, configuration, management, and security. Selecting and using technologies to support professional quality websites. Lecture two hours; technical activity and laboratory two hours.

CSC 121. Client-Side Web Programming. 3 Units
Prerequisite(s): CSC 22, CSC 80 or equivalents; OR PCSC/CSC Major, CSC 60, CSC 130.
Term Typically Offered: Fall, Spring

CSC 122. Web Database Applications. 3 Units
Prerequisite(s): CSC 10 or CSC 22; and CSC 80 or equivalent.
Term Typically Offered: Fall, Spring
Fundamentals of building effective database-driven web applications. Particular emphasis on database access via web interfaces. Introduction to database management systems, their structure and usage, SQL, integrating web applications with databases, design and implementation of dynamic web database applications.

CSC 123. Web Application Development. 3 Units
Prerequisite(s): CSC 22, CSC 121, CSC 122, or equivalent experience; OR PCSC/CSC Major, CSC 60, CSC 134.
Term Typically Offered: Fall, Spring
Developing multi-tiered enterprise-level Web applications. Standards of Web services and other current Web technologies, including XML, AJAX, and server-side programming such as Java EE, .NET, or PHP. Development of Web applications such as those used for e-commerce, e-business, and content management. Format consists of two 1.5 hour lecture/lab sessions per week.

CSC 126. 3D Computer Modeling. 3 Units
Prerequisite(s): CSC 10 or ART 97 or equivalent.
Term Typically Offered: Fall only
Techniques and processes to create 3D computer models and environments. Exercises, assignments and projects designed to build skill levels with 3D computer modeling tools. Demonstrations and workshops in the use of 3D computer modeling software. Critiques, discussion and presentations to develop students' conceptual grasp of 3D computer modeling and virtual reality environments. Example applications in art/new media and computer gaming.
Note: May be taken twice for credit. Cross-listed as ART 142.

CSC 127. 3D Computer Animation. 3 Units
Prerequisite(s): ART 142 or CSC 126.
Term Typically Offered: Spring only
Creative skills and techniques for animating 3D computer-modeled objects/environments. Topics include animation techniques, keyframing and interpolation; deformation and morphing; path control; skeletal animation; model rigging and skinning; forward and inverse kinematics, constraints and IK solvers; particle systems; fluid, cloth, hair, and fur; simulation; shape keys; and soft body animation. Emphasis on both skill development and creative application of modeling and animation techniques. Includes demos, in class and homework exercises, and self directed projects. Cross-listed: ART 143.

CSC 130. Data Structures and Algorithm Analysis. 3 Units
Prerequisite(s): CSC 20, CSC 28, CSC 28 may be taken concurrently. Not currently enrolled in CSC 130.
Term Typically Offered: Fall, Spring
Specification, implementation, and manipulation of abstract data types and their structures: balanced trees, priority queues, sets, hash tables, and graphs; recursion; searching and sorting algorithms; asymptotic analysis; NP completeness; fundamental graph algorithms including graph search, shortest path, and minimum spanning trees.

CSC 131. Computer Software Engineering. 3 Units
Prerequisite(s): CSC 130; may be taken concurrently. Not currently enrolled in CSC 131.
Term Typically Offered: Fall, Spring
Principles of Software Engineering covering the software development life cycle, including software requirements engineering (elicitation, modeling, analysis and specification), software design, software implementation and testing. Main topics include various software development process models, method and techniques for specifying requirements, architectural and detailed design specification, prototyping, top-down and bottom-up software implementation and testing. Topics also include project management, project documentation and the development of communication skills through written documentation and oral presentation.

CSC 132. Computing Theory. 3 Units
Prerequisite(s): CSC 28, CSC 130; CSC 130 may be taken concurrently.
Term Typically Offered: Fall, Spring
Introduction to computing theory with examples and applications. Automata and formal languages; language recognition and generation; language hierarchy; deterministic and non-deterministic automata; regular expressions; pushdown automata and context-free grammars; properties of regular and context-free languages; Turing machines; computable and noncomputable functions; decidability.

CSC 133. Object-Oriented Computer Graphics Programming. 3 Units
Prerequisite(s): CSC 130, CSC 131, not currently enrolled in CSC 133.
Term Typically Offered: Fall, Spring
Introduction to computer graphics and to advanced topics in object-oriented programming. Mobile application development; implementation of event-driven systems; advanced object-oriented concepts such as inheritance and polymorphism; implementation of software design patterns; graphical user interface development; fundamentals of 2D graphics systems. Application of these topics to mobile programming.
CSC 134. Database Management Systems. 3 Units
Prerequisite(s): CSC 130, and not currently enrolled in CSC 134
Term Typically Offered: Fall, Spring

Entity-Relationship (ER) model; relational model; relational database design by ER-to-relational mapping; design of applications using database technology; SQL; schema definition, constraints, and queries; relational algebra; data normalization; access methods such as indexing and hash structures; introduction to transaction processing.

CSC 135. Computability and Formal Languages. 3 Units
Prerequisite(s): CSC 28, CSC 35, CSC 130, and not currently enrolled in CSC 135.
Term Typically Offered: Fall, Spring

Introduction to limits of computation and techniques for specifying and processing formal languages. Regular languages, regular expressions, finite automata, properties and limitations. Context-free languages, grammars, pushdown automata, properties and limitations. Applications in lexical and syntax analyses, including recursive-descent or table-driven parsing. Turing machines, halting problem, reductions. Introduction to functional programming and related programming language features.

CSC 136. Programming Languages. 3 Units
Prerequisite(s): CSC 35, CSC 132.
Term Typically Offered: Fall, Spring

Evolution and characteristics of programming languages. Scripting, procedural, object-oriented, functional and logic paradigms. Language specification; interpreters and compilers; virtual machines; parsing techniques. Design and implementation of selected features of programming languages. Programming languages used in the development of intelligent systems, with introduction to Artificial Intelligence. Trends in programming languages.

CSC 137. Computer Organization. 3 Units
Prerequisite(s): CSC 28, CSC 60, CSC 130, not currently enrolled in CSC 137.
Term Typically Offered: Fall, Spring

Introduction to computer organization and architecture. Combinational devices, sequential and synchronized circuits, memory organization, CPU architecture and organization, bus structures, input/output, interrupts, DMA, memory hierarchy, introduction to instruction level parallelism, multithreading, and multiprocessing.

CSC 138. Computer Networking Fundamentals. 3 Units
Prerequisite(s): CSC 60, CSC 130. Not currently enrolled in CSC/CPE 138.
Term Typically Offered: Fall, Spring


CSC 139. Operating System Principles. 3 Units
Prerequisite(s): CSC 60 and CSC 130 and either CSC 137 or CPE 185. Not currently enrolled in CSC 139.
Term Typically Offered: Fall, Spring

Concepts, principles, fundamental issues, organization and structure of contemporary operating systems. Topics include processes, threads, concurrency, parallelism on multi-processor and multi-core systems, CPU scheduling, inter-process communication and synchronization, deadlocks, real and virtual memory management, device management, file systems, security, and protection. Lecture three hours.

Note: Open to students with full CSC or CPE major standing only. Cross Listed: CPE 142; only one may be counted for credit.
CSC 153. Computer Forensics Principles and Practices. 3 Units
Prerequisite(s): CSC 138 or CPE 138.
Term Typically Offered: Spring only

Fundamentals of computer forensics, cyber-crime scene analysis and electronic discovery. Technical and formal methodology for conducting security incident investigations; file systems and storage analysis, data hiding techniques, network forensics; projects involving using, understanding, and designing digital forensics tools; anti-forensics; legal issues and standards.

CSC 154. Computer System Attacks and Countermeasures. 3 Units
Prerequisite(s): CSC 138 or CPE 138.
Term Typically Offered: Fall only

Introduction to network and computer security with a focus on how intruders gain access to systems, how they escalate privileges, and what steps can be taken to secure a system against such attacks. Topics include: Perimeter defenses, intrusion detection systems, social engineering, distributed denial of service attacks, buffer overflows, race conditions, trojans, and viruses.

CSC 155. Advanced Computer Graphics. 3 Units
Prerequisite(s): CSC 133.
Term Typically Offered: Fall only

Modeling, viewing, and rendering techniques in 3D computer graphics systems. Topics include modeling systems and data structures; polygonal and parametric surface representation; transformations, windowing, clipping and projections in 3D; hidden surface removal algorithms; techniques for realism such as shading, shadows, highlights, and texture; fractals and procedural models; introduction to animation; hardware support for computer graphics; and the application of graphics principles to virtual reality systems and 3D games.

CSC 159. Operating System Pragmatics. 3 Units
Prerequisite(s): CSC 139.
Term Typically Offered: Fall, Spring

Application of operating system principles to the design and implementation of a multitasking operating system. Students will write an operating system for a computer platform. Topics include: scheduling of processes, control and allocation of computer resources, and user interfacing.
Cross Listed: CPE 159; only one may be counted for credit.

CSC 163. Parallel Programming with GPUs. 3 Units
Prerequisite(s): CSC 60, CSC 130, CSC 137; and either MATH 30 or MATH 26A.
Term Typically Offered: Fall, Spring

Parallel programming with emphasis on developing GPU computing applications. Topics include the GPU architecture and programming model, mapping computations to parallel hardware, parallel computation patterns, parallel programming optimization techniques, and application case studies.

CSC 165. Computer Game Architecture and Implementation. 3 Units
Prerequisite(s): CSC 130; CSC 133; MATH 26A or MATH 30; PHYS 5A or PHYS 11A.
Term Typically Offered: Spring only

Architecture and implementation of computer game systems. Topics include game engine architecture; screen management and rendering control; geometric models; algorithms and data structures for spatial partitioning, occlusion, and collision detection; real-time interactive 3D graphics and animation techniques; behavioral control for autonomous characters; simulation of physical phenomena; sound and music in games; optimization techniques; multi-player games and networking; game development tools and environments. Substantial programming and project work.

CSC 170. Software Requirements and Specification. 3 Units
Prerequisite(s): CSC 131.
Term Typically Offered: Spring only – odd years

Analysis and specification of functional and non-functional requirements for real-time and non-real-time software systems in the context of a software development lifecycle. Determining customer and user software requirements and ensuring that specifications are correct, complete, and testable. Includes modeling techniques, methods for representing real-time requirements, and the use of Computer-Aided Software Engineering (CASE) tools to illustrate analysis concepts.

CSC 171. Software Engineering Project Management. 3 Units
Prerequisite(s): CSC 131.
Term Typically Offered: Spring only – even years

Fundamental issues in the management and economics of a software engineering project in the context of the software development lifecycle. Topics include: techniques for project planning (budgeting and scheduling), controlling (including quality assurance and configuration management), organizing, staffing, and directing a software project (leadership and motivation), and contemporary issues in management.

CSC 173. Data Visualization. 3 Units
Prerequisite(s): CSC 130, CSC 134, and STAT 50 or ENGR 115.
Term Typically Offered: Fall, Spring

Design principles and concepts for visualizing data; current visualization systems and languages, exploratory data analysis, interaction techniques, high-dimensional data, network visualization, and text visualization.

CSC 174. Advanced Database Management Systems. 3 Units
Prerequisite(s): CSC 131, CSC 134.
Term Typically Offered: Fall only

Enhanced Entity-Relationship (EER) modeling; relational database design based on EER; SQL views; integrity constraints and triggers; stored procedures and functions; database programming techniques; query processing and optimization; transactions concurrency and recovery techniques; relational decomposition and normalization algorithms; database schema and data security.
CSC 176. Database Architecture and Optimization. 3 Units
Prerequisite(s): CSC 174.
Term Typically Offered: Spring only

Advanced object-relational systems, advanced catalog systems, security mechanisms, distributed database processing, advanced schema design-partitioning, introduction to data warehousing and data mining, materialized views, Internet technologies, parallel query processing, system utilities, database tuning, DBA tools and techniques.

CSC 177. Data Analytics and Mining. 3 Units
Prerequisite(s): CSC 134 and STAT 50 or ENGR 115.
Term Typically Offered: Spring only

Theory and implementation of techniques for data analytics and mining with emphasis on big data. Topics include data cleaning, exploratory data analysis, data visualization, feature engineering, classification, clustering, association rule mining, predictive model evaluation, parameter tuning, natural language processing, and selected advanced data mining topics. Design and implementation of systems using contemporary data analysis and mining programming libraries for automatic discovery of patterns and knowledge.

CSC 179. Software Testing and Quality Assurance. 3 Units
Prerequisite(s): CSC 131.
Term Typically Offered: Spring only – even years

Testing, verification, validation, and control of real-time and non-real-time software systems in the context of a software development lifecycle. Topics include: unit, integration and system testing; verification and validation (V&V), quality assurance, metrics, and configuration management.

CSC 180. Intelligent Systems. 3 Units
Prerequisite(s): MATH 26B or MATH 31; STAT 50 or ENGR 115; CSC 130 and CSC 135.
Term Typically Offered: Spring only

Theory and implementation of a variety of techniques used to simulate intelligent behavior. Expert systems, fuzzy logic, neural networks, evolutionary computation, and two-player game-tree search will be covered in depth. Knowledge representation, pattern recognition, hybrid approaches, and handling uncertainty will also be discussed.

CSC 190. Senior Project - Part I. 2 Units
Prerequisite(s): Senior status, WPJ score of 70+ or at least a C- in ENGL 109M/W, completed CSC 130, CSC 131, and four additional 3-unit upper-division CSC courses that fulfill the major requirements (excluding CSC 192-195, 198, and 199), not currently enrolled in CSC190.
Term Typically Offered: Fall, Spring

The first of a two-course sequence in which student teams undertake an industry-grade a project to develop and deliver a software product. Teams apply software engineering principles in the preparation of a software proposal, a project management plan, a software product backlog, and a high-fidelity prototype. All technical work is published using guidelines modeled after IEEE documentation standards. Oral and written reports are required. Lecture one hour, laboratory three hours.

CSC 191. Senior Project - Part II. 2 Units
Prerequisite(s): CSC 190, not currently enrolled in CSC191.
Term Typically Offered: Fall, Spring

Continuation of the team group project begun in CSC 190. Teams apply software engineering principles to the design, implementation, testing, and deployment of their software product. All technical work is published using guidelines modeled after IEEE documentation standards. Oral and written reports are required. Senior project is completed with the successful delivery, installation and demonstration of the software along with all approved documentation. Lecture one hour, laboratory three hours.

CSC 192. Career Planning. 1 Unit
Prerequisite(s): CSC 130 and three additional upper-division courses that fulfill major requirements with a C- grade or better (excluding CSC 190-195, CSC 198, and CSC 199).
Term Typically Offered: Fall, Spring

Designed to help students learn more about the labor market and opportunities in the Computer Science field. Students will examine their interests, consider their goals, and learn how to conduct an effective proactive job search. Strategies for long term career growth will be identified. Credit/No Credit

CSC 193A. Web Programming. 1 Unit
Prerequisite(s): CSC 130 and not currently enrolled in CSC 193A
Term Typically Offered: Fall, Spring

Introduction to the World Wide Web; relationship between clients and servers, how web pages are created using several technologies: HyperText Markup Language (HTML), Cascading Style Sheets (CSS), JavaScript, Asynchronous JavaScript and XML (Ajax), server-side web services, integrate web applications with databases.

CSC 194. Computer Science Seminar. 1 Unit
Prerequisite(s): Upper division or graduate status in CSC.
Term Typically Offered: Spring only

Series of weekly seminars on Computer Science topics. These topics cover subjects not normally taught in the course of a school year and they range from the very theoretical in Computer Science through applications to presentations by industry on working conditions, real world environment and job opportunities.
Note: May be repeated for credit.

CSC 195. Fieldwork in Computer Science. 1 - 4 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Directed observations and work experience in computer science with firms in the industry or public agencies. Supervision is provided by the instructional staff and the cooperating agencies.
Note: Faculty approval required. May be repeated for credit. Credit/No Credit
CSC 195A. Professional Practice.  1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the Career Center.
Note: Requires satisfactory completion of the work assignment and a written report.
Credit/No Credit

CSC 195B. Professional Practice.  1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the Career Center.
Note: Requires satisfactory completion of the work assignment and a written report.
Credit/No Credit

CSC 196P. Cloud and Mobile Computing Pragmatics.  3 Units
Prerequisite(s): CSC 134, CSC 138, and CSC 139
Introduction to cloud computing. Cloud services. Deployment options. The installation, configuration, and deployment of a cloud infrastructure based upon industrial standards. Step-by-step cloud setup as well as the development of scripts for automated deployment. The installation, building, deployment, testing, and provisioning of a multi-tier cloud based mobile application as a cloud service.

CSC 196W. Web Programming.  1 Unit
Prerequisite(s): CSC 130
Term Typically Offered: Fall, Spring

Introduction to the World Wide Web: relationship between clients and servers, how web pages are created using several technologies: HyperText Markup Language (HTML), Cascading Style Sheets (CSS), JavaScript, Asynchronous JavaScript and XML (Ajax), server-side web services, integrate web applications with databases.
Note: Offered Online

CSC 198. Co-Curricular Activities in Computer Science.  1 - 3 Units
Term Typically Offered: Fall, Spring

Students will serve in leadership roles in computer science activities, provide tutoring or technical assistance in labs, assist instructors in grading coursework, or assist in other activities related to the subject matter and concerns of the department.
Credit/No Credit

CSC 199. Special Problems.  1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading in specified topics in computer science.
Note: Open only to students who appear competent to carry on individual work; approval of faculty supervisor and advisor required. May be repeated for credit.
Credit/No Credit

CSC 200. Professional Writing in Computer Science.  3 Units
Prerequisite(s): Graduate standing in Computer Science or Software Engineering
Term Typically Offered: Fall, Spring

Immersion in the discourse of Computer Science: genres, literacies, stylistic conventions. Writing process, academic writing in various academic genres, revising, and editing. Tools for technical writing. Ethical issues in connection with scientific writing.

CSC 201. Programming Language Principles.  3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Notations for the specification of programming language syntax and semantics; attribute, translational, operational, axiomatic, algebraic, denotational, and action semantics. Applications of programming language syntax and programming language semantics. Use of meta languages to generate executable language definitions for language implementation, program transformation, program property analysis, and rapid software prototyping. Principles of logic, functional, and object-oriented programming languages.

CSC 204. Data Models for Database Management Systems.  3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Database management system (DBMS) architecture; database file organizations and access methods; the relational model and relational algebra; SQL query language; introduction to query optimization; concurrent transaction processing and backup and recovery; applications using embedded SQL, object types, and stored procedures; database analysis and design notations: EER, UML, and XML; web database environments; database security and administration throughout course.
Note: Not intended for students who have completed CSC 174.

CSC 205. Computer Systems Structure.  3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering or Computer Engineering.
Term Typically Offered: Fall, Spring

Overview of computer systems organization and design. Concepts of instruction set architecture, interactions of hardware-software interface, principles of performance analysis, processor design, instruction level parallelism, survey of contemporary architectures, hierarchical memory design and analysis, interfacing I/O devices, parallel processing and multiprocessing, and introduction to EDA tools and methodologies for computer systems design and verification.

CSC 206. Algorithms And Paradigms.  3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Design and analysis of algorithms. Classical design paradigms including greedy, divide-and-conquer, dynamic programming, and backtracking algorithmic methods. Alternative paradigms of computing including parallel and numerical approaches. Theoretical limits of computation. Selected additional topics such as genetic, approximation, and probabilistic algorithms.
CSC 209.  Research Methodology.  1 Unit
Prerequisite(s): Enrolled in at least 3 units of 200-level courses in Computer Science.
Term Typically Offered: Fall, Spring

Research methodology, problem formulation, and problem solving. Orientation to the requirements for Master’s Thesis or Project. Presentations on various research topics.

Credit/No Credit

CSC 212.  Bioinformatics: Data Integration and Algorithms.  3 Units
Prerequisite(s): CSC 130, STAT 50, and graduate status; BIO 10 recommended.
Term Typically Offered: Fall, Spring

The application of information technology and computer science to biological problems, in particular to biomedical science issues involving genetic sequences. Algorithms and their applications to DNA sequencing and protein database search; tools and techniques for data integration to transform genetic sequencing data into comprehensible information to study biological processes.

CSC 214.  Knowledge-Based Systems.  3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Historical perspective of knowledge-based systems and their relationship to artificial intelligence. Concepts of knowledge representation and automated reasoning. Survey of expert systems in a variety of applications in engineering and other fields. Implementation of expert systems and expert system shells.

CSC 215.  Artificial Intelligence.  3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering or Computer Engineering.
Term Typically Offered: Fall, Spring

Nature of intelligence and possibility of its realization on digital computers via algorithmic and heuristic programming methods. Informed and uninformed search, adversarial search, stochastic search, machine learning, regular and deep neural networks, and knowledge representation and inference over uncertainty. Computer vision topics. Natural language processing. Design and implementation of systems using contemporary programming libraries to solve a variety of artificial intelligence problems.

CSC 219.  Machine Learning.  3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering or Computer Engineering.
Term Typically Offered: Fall, Spring

Introduction to major paradigms and methods of machine learning. Inductive learning, explanation-based learning, classifier systems and genetic algorithms, analogical reasoning, case-based learning, connectionist learning, data driven approaches to empirical discovery, and basis of learning theory. Focus is on representative systems that have been built.

CSC 230.  Software System Engineering.  3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering; or Computer Engineering and CSC 131.
Term Typically Offered: Fall, Spring

Integration of managerial and technical activities in system engineering that control the cost, schedule, and technical achievement of the developing software system. Application of the principles, activities, tasks and procedures of system engineering and software engineering to the development of a software system.

CSC 231.  Software Engineering Metrics.  3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Software quality and quantity metrics in software engineering. Measurement theory and metrics. Metrics include management metrics, indirect and direct metrics and predictive metrics. Uses of metrics include software cost and schedule estimates, model calibration, and software productivity measurements. Metrics techniques include the Goal-Question-Metric approach, COCOMO, and function point analysis.

CSC 232.  Software Requirements Analysis and Design.  3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Software engineering requirements including elicitation, analysis, specification, verification and management. Emphasizes IEEE software engineering requirements and standards and the concept of operations (ConOps) document. Techniques include structured analysis, use cases and object-oriented analysis.

CSC 233.  Advanced Software Engineering Project Management.  3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Advanced methods and procedures for managing a software development project. Includes project planning, scheduling, and cost estimation, project organizational types, staffing and training considerations, leading and motivating computer personnel, and methods for measuring and controlling a project. Emphasizes IEEE software engineering management standards and keys to project success.

CSC 234.  Software Verification and Validation.  3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering; or Computer Engineering and CSC 131.
Term Typically Offered: Fall, Spring

Verification and validation (V & V) techniques to identify and resolve software problems and high-risk issues early in the software lifecycle. Application of V & V to all phases of the lifecycle process. Includes planning and reporting on the V & V effort. Topics also include software quality assurance and software testing.
CSC 235. Software Architecture. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring


CSC 236. Formal Methods in Secure Software Engineering. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Basic concepts of formal methods in secure software engineering: formal methods based software development models and methodologies; formal methods for software system specification, modeling, analysis, verification, information assurance and security; systems and tools for the application of formal methods in secure software engineering; advances of formal methods in secure software engineering.

CSC 237. Microprocessor Systems Architecture. 3 Units
Prerequisite(s): CSC 205.
Term Typically Offered: Fall, Spring

Microprocessor/microcomputer architecture and hardware/software interfacing design. RISC v. CISC architecture in-depth, case studies of several popular commercial advanced 32-bit microprocessors. Microcomputer firmware architecture is discussed and illustrated with detailed examples. Term project in which students specify, design and build the hardware and firmware of a computer system.

CSC 238. Human-Computer Interface Design. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Issues involved in design of interaction between people and computers. Insight and experience in key issues of HCI design. Emphasis on identifying issues and tradeoffs in interaction design. Development and evaluation of alternative solutions to design problems.

CSC 239. Advanced Operating Systems Principles and Design. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering.
Term Typically Offered: Fall, Spring

Advanced concepts of concurrent processes, concurrent programming and operating systems. Virtual memory management systems, deadlock, file systems, operating system performance measurement and evaluation, device driver development.

CSC 242. Computer-Aided Systems Design and Verification. 3 Units
Prerequisite(s): CSC 205 or CSC/EEE 273.
Term Typically Offered: Fall, Spring

Design and verification methodology using hardware description and verification languages (HDVLs). Advances in IC chip design; introduction to HDVLs such as System Verilog; HDVL language basics including data types, arrays, structures, unions, procedural blocks, tasks, functions, and interface concepts; design hierarchy; verification planning and productivity; verification infrastructure; guidelines for efficient verification of large designs; assertion-based verification; comprehensive computer-related design projects.

CSC 244. Database System Design. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

SQL views, integrity constraints and triggers, stored procedures and functions. Advanced topics in database system design: an algebra for queries, query processing algorithms, query compiler, query optimization, transaction management, recovery, concurrency control. Special topics on data management.

CSC 245. Performance Modeling and Evaluation. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Performance and cost measures; software and hardware performance monitors; data reduction and evaluation; analytic and simulation models of hardware and program behavior; performance-cost trade-offs and resource allocation.

CSC 250. Computer Security. 3 Units
Prerequisite(s): Fully classified graduate standing in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

Principles and technologies behind computer security. Introduction to encryption and decryption; security mechanisms in computer programs, operating systems, databases, and networks; administration of computer security, and legal and ethical issues.

CSC 251. Principles of Compiler Design. 3 Units
Prerequisite(s): CSC 151 or CSC 201.
Term Typically Offered: Fall, Spring


CSC 252. Cryptography Theory and Practice. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

CSC 253. Computer Forensics. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

Structured security incident investigations internal and external; emphasis on analysis of electronic evidence and proper audit; utilization of scientific aids in obtaining information from computing devices; legal electronic evidence.

CSC 254. Network Security. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

In-depth study of network security problems and discussion of potential solutions. Topics include: network vulnerabilities and attacks, secure communication, Internet security protocols and tools to defend against network attacks, network intrusion detection, and wireless network security. Survey and demonstration of software tools used for network security.

CSC 255. Computer Networks. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering, or a Computer Engineering.
Term Typically Offered: Fall, Spring

Computer networking fundamentals with emphasis on higher level protocols and functions. Network design considerations, software design and layering concepts, interface design, routing and congestion control algorithms, internetworking, transport protocol design, and end-to-end communication, session and application protocols. Specific examples of commercial and international standards.

CSC 258. Distributed Systems. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering.
Term Typically Offered: Fall, Spring

Distributed system architectures, distributed object model, component-based design, time and global states, coordination and agreement, distributed transactions and concurrency control, replication, security, distributed multimedia systems, message passing and distributed shared memory, Web services and Service-Oriented Architecture (SOA), Cloud and Ubiquitous computing. Emphasis on scalability, manageability, security, and dependability of distributed systems.

CSC 273. Hierarchical Digital Design Methodology. 3 Units
Prerequisite(s): CSC 205, CPE 64, or equivalent.
Term Typically Offered: Fall, Spring

Advanced logic modeling, simulation, and synthesis techniques. Topics include modeling, simulation, and synthesis techniques, using Hardware Description Language (HDL’s), Register Transfer Level (RTL) representation, high-level functional partitioning, functional verification and testing, computer-aided logic synthesis, logical verification and testing, timing and delay analysis, automated place and route process, and design with Application Specific Integrated Circuits (ASICs) and programmable logic.
Cross Listed: EEE 273; only one may be counted for credit.

CSC 275. Advanced Data Communication Systems. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering.
Term Typically Offered: Fall, Spring

Fundamental concepts, principles and issues of data communication systems. The ISO/OSI reference model is used as a vehicle for discussion and emphasizes the lower layer of the model. Specific topics include: motivation and objectives, layered architectures, physical layer principles and protocols, data link and medium access control principles and protocols, circuit, packet and cell switching, local area network design principles and performance comparisons, high speed networking, introduction to wide area network architectures. Typical examples and standards are cited for point-to-point, satellite, packet radio and local area networks.

CSC 280. Advanced Computer Architecture. 3 Units
Prerequisite(s): CSC 205 and fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Introduction to parallel architecture covering computer classification schemes, fine and coarse grain parallelism, processor interconnections, and performance issues of multiprocessor systems. Includes parallel and pipelined instruction execution, structure of multiprocessor systems, memory hierarchy and coherence in shared memory systems, programming issues of multiprocessor systems, arithmetic pipeline design, and design for testability. Cross Listed: EEE 280; only one may be counted for credit.

CSC 288. Special Topics in Computer Science - Software Engineering. 3 Units
Term Typically Offered: Fall, Spring

Contemporary topics in computer science will be offered as needed. Topics offered:

CSC 295. Fieldwork. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observations and work experience in computer science with firms in the industry or public agencies. Supervision is provided by the instructional staff and the cooperating agencies.
Note: Faculty approval required. May be repeated for credit.
Credit/No Credit

CSC 296R. Computer Vision. 3 Units
Prerequisite(s): CSC 206, and Math 35 or Math 100; not currently enrolled in CSC 296R
Term Typically Offered: Fall, Spring

Topics in computer vision including fundamentals of image formation, image transformations and rotation, Fourier transform and frequencies, lighting and optics, filtering, edge and line detection and Hough transform, feature detection and matching, a brief introduction to machine learning and classifiers, recognition, large-scale retrieval, object detection, and face recognition. Mathematical fundamentals and methods, design and implementation of various computer vision applications.
CSC 296T. Fundamentals in Cybersecurity for Teachers. 3 Units
Prerequisite(s): Education, teaching, and/or professional experience qualified for admission into the National Cybersecurity Teaching Academy program at Sacramento State.
Term Typically Offered: Fall, Spring, Summer

Introduction to network and computer security with a focus on how intruders gain access to systems, how they escalate privileges, and what steps can be taken to secure a system against such attacks. Topics include: computer networking basics, operating system basics, vulnerability and attacks, intrusion penetration, cyber defenses, network hardening, system hardening, security administration. This course is designed for K-12 teachers, and does not meet regular degree requirements in Computer Science, Software Engineering, or Computer Engineering.

CSC 296U. Introduction to Digital Forensics for Teachers. 3 Units
Prerequisite(s): Education, teaching, and/or professional experience qualified for admission into the National Cybersecurity Teaching Academy program at Sacramento State.
Term Typically Offered: Fall, Spring, Summer

Introduction to computer forensics, cyber-crime scene analysis and electronic discovery. Digital forensics related legal issues, procedures and standards. Technical methodologies for setting up forensic workstations; data acquisition; file systems and storage analysis for Linux, Mac and Windows systems; data hiding techniques; graphics file recovery; network forensics; and mobile forensics. Hands-on activities for using and understanding digital forensic tools. This course is designed for K-12 teachers, and does not meet regular degree requirements in Computer Science, Software Engineering, or Computer Engineering.

CSC 296V. Cybersecurity Teaching Methods for Teachers. 3 Units
Prerequisite(s): Education, teaching, and/or professional experience qualified for admission into the National Cybersecurity Teaching Academy program at Sacramento State, and CSC 296T.
Term Typically Offered: Fall, Spring, Summer

Introduction to existing generally accepted guidelines and frameworks (such as HSCCG, CSEC, CAE Knowledge Units, NCWF) in the discipline of cybersecurity. Methods for teaching cybersecurity to transform cybersecurity subject matter, with pedagogical content knowledge, into student learning. Topics include: culturally-relevant methods, scaffolding knowledge, differentiation, assessment, and cybersecurity instructional technologies (ranges, CTFs, competitions, and unplugged activities). This course is designed for K-12 teachers, and does not meet regular degree requirements in Computer Science, Software Engineering, or Computer Engineering.

CSC 296W. Cybersecurity Practicum for Teachers. 3 Units
Prerequisite(s): Education, teaching, and/or professional experience qualified for admission into the National Cybersecurity Teaching Academy program at Sacramento State, CSC 296T and CSC 296U.
Term Typically Offered: Fall, Spring, Summer

Exposure to cybersecurity operations through service projects, research, or industry experience. This course is designed for students to work with industry or the community in a cybersecurity operations environment to apply knowledge in the development, implementation, testing and documentation of security controls. This course is designed for K-12 teachers, and does not meet regular degree requirements in Computer Science, Software Engineering, or Computer Engineering.

CSC 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem of his own choice may do so if the proposed subject is acceptable to the member of the staff with whom he/she works and to his/her advisor.
Note: May be repeated for credit.

Credit/No Credit

CSC 500. Master's Thesis. 1 - 5 Units
Prerequisite(s): CSC 209; advanced to candidacy.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.
Note: May be repeated for credit.

CSC 500C. Master's Thesis Continuous Enrollment. 1 Unit
Prerequisite(s): CSC 500
Term Typically Offered: Fall, Spring

Continuation of a thesis approved for the Master's degree.
Note: May be repeated for credit.

Credit/No Credit

CSC 502. Master's Project. 1 - 2 Units
Prerequisite(s): CSC 209; advanced to candidacy.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.

CSC 502C. Master's Project Continuous Enrollment. 1 Unit
Prerequisite(s): CSC 502
Term Typically Offered: Fall, Spring

Continuation of a project approved for the Master's degree.
Note: May be repeated for credit.

Credit/No Credit

BS in Computer Science

Units required for Major: 78
Total units required for BS: 120

Program Description

The Bachelor of Science degree in Computer Science is accredited by the Computing Accreditation Commission (CAC) of ABET, Inc. (http://www.abet.org/), providing majors with a sound educational base in Computer Science.

Pre-Major Requirements

Students requesting to become Computer Science majors must first complete the lower-division (pre-major) courses listed in this section. If a student requests to become a Computer Science major but has not yet completed these courses, they should change their major to pre-Computer Science. Changing to the pre-Computer Science major requires either completion of or enrollment in MATH 30 and a Sacramento State and overall GPA of at least 2.5. Changing to the Computer Science major requires a GPA of at least 2.7 in the courses listed in this section.
To change to the Computer Science or pre-Computer Science major, students are required to complete and submit a Change of Major form to the Computer Science Department Office along with transcript copies.

Registration in Computer Science courses numbered 133 and above is restricted to Computer Science and Computer Engineering majors. Other students need to obtain approval from the CSC Department Chair.

**Minimum Grade Requirement**
Grade of "C-" or better required in all courses applied to the Computer Science major.

**Program Requirements**

**Required Lower Division Courses (15 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 15</td>
<td>Programming Concepts and Methodology I</td>
<td>3</td>
</tr>
<tr>
<td>CSC 20</td>
<td>Programming Concepts and Methodology II</td>
<td>3</td>
</tr>
<tr>
<td>CSC 28</td>
<td>Discrete Structures for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSC 35</td>
<td>Introduction to Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required Mathematics and Science Courses (21-24 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 50</td>
<td>Introduction to Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 115</td>
<td>Statistics For Engineers</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 35</td>
<td>Introduction to Linear Algebra</td>
<td>2</td>
</tr>
<tr>
<td>MATH 100</td>
<td>Applied Linear Algebra</td>
<td>2</td>
</tr>
<tr>
<td>MATH 101</td>
<td>Combinatorics</td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Number Theory</td>
<td></td>
</tr>
<tr>
<td>MATH 150</td>
<td>Introduction to Numerical Analysis</td>
<td></td>
</tr>
<tr>
<td>PHIL 160</td>
<td>Deductive Logic II</td>
<td></td>
</tr>
<tr>
<td>STAT 103</td>
<td>Intermediate Statistics</td>
<td></td>
</tr>
<tr>
<td>STAT 115A</td>
<td>Introduction to Probability Theory</td>
<td></td>
</tr>
<tr>
<td>STAT 155</td>
<td>Introduction to Techniques of Operations Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>1</td>
</tr>
<tr>
<td>BIO 10</td>
<td>Basic Biological Concepts</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 1E</td>
<td>General Chemistry for Engineering</td>
<td></td>
</tr>
<tr>
<td>PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
<td>5</td>
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</tbody>
</table>

**Required Upper Division Courses (33 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 130</td>
<td>Data Structures and Algorithm Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CSC 131</td>
<td>Computer Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSC 133</td>
<td>Object-Oriented Computer Graphics Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSC 134</td>
<td>Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 135</td>
<td>Computability and Formal Languages</td>
<td>3</td>
</tr>
<tr>
<td>CSC 137</td>
<td>Computer Organization</td>
<td>3</td>
</tr>
<tr>
<td>CSC/CPE 138</td>
<td>Computer Networking Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CSC 139</td>
<td>Operating System Principles</td>
<td>3</td>
</tr>
<tr>
<td>CSC 190</td>
<td>Senior Project - Part I</td>
<td>2</td>
</tr>
<tr>
<td>CSC 191</td>
<td>Senior Project - Part II</td>
<td>2</td>
</tr>
<tr>
<td>PHIL 103</td>
<td>Business and Computer Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two units from the following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 192</td>
<td>Career Planning</td>
<td>2</td>
</tr>
<tr>
<td>CSC 193A</td>
<td>Web Programming</td>
<td></td>
</tr>
<tr>
<td>CSC 194</td>
<td>Computer Science Seminar</td>
<td></td>
</tr>
<tr>
<td>CSC 195</td>
<td>Fieldwork in Computer Science</td>
<td></td>
</tr>
<tr>
<td>CSC 195A</td>
<td>Professional Practice</td>
<td></td>
</tr>
<tr>
<td>CSC 198</td>
<td>Co-Curricular Activities in Computer Science</td>
<td></td>
</tr>
<tr>
<td>CSC 199</td>
<td>Special Problems</td>
<td></td>
</tr>
<tr>
<td>ENGR 197</td>
<td>Seminar in Peer-Assisted Learning</td>
<td></td>
</tr>
</tbody>
</table>

**Electives (9 Units)**

Select 9 units of CSC courses 140 or above excluding the following:  

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 192</td>
<td>Career Planning</td>
<td>3</td>
</tr>
<tr>
<td>CSC 193A</td>
<td>Web Programming</td>
<td></td>
</tr>
<tr>
<td>CSC 194</td>
<td>Computer Science Seminar</td>
<td></td>
</tr>
<tr>
<td>CSC 195</td>
<td>Fieldwork in Computer Science</td>
<td></td>
</tr>
<tr>
<td>CSC 195A</td>
<td>Professional Practice</td>
<td></td>
</tr>
<tr>
<td>CSC 198</td>
<td>Co-Curricular Activities in Computer Science</td>
<td></td>
</tr>
<tr>
<td>CSC 199</td>
<td>Special Problems</td>
<td></td>
</tr>
<tr>
<td>ENGR 197</td>
<td>Seminar in Peer-Assisted Learning</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**  

- **78-81**

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Computer science students choosing between MATH 35 and MATH 100 should normally choose MATH 100 because it is more applied. MATH 35 at Sacramento State is designed for math majors.
3. In addition to the required lower-division and upper-division Computer Science courses, Computer Science majors must take additional elective courses, totaling at least nine (9) units, from undergraduate Computer Science courses numbered CSC 140 or above (excluding the listed courses).

Course choices should be made with advisor consultation. With advance written approval from their advisor, the course instructor, and the Department Chair, students with a GPA of 3.0 or greater may take graduate courses as electives. In any case students must meet any course prerequisite stated in the catalog prior to taking any elective course.
### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area B: Physical Universe and Its Life Forms (3-6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>5</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>0 - 3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>5</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area C: Arts and Humanities (12 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area Course C</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area D: The Individual and Society (6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area E: Understanding Personal Development (3 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Area E Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area F: Ethnic Studies (3 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Area F Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>36-39</td>
</tr>
</tbody>
</table>

### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Graduation Requirements (required by CSU) (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Graduation Requirements (required by Sacramento State) (6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Proficiency Requirement 7</td>
<td>0</td>
</tr>
</tbody>
</table>

4. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

5. A required course in the major satisfies this GE area.

6. Choosing BIO 1 or BIO 10 as the Computer Science science elective satisfies GE Area B2.

7. Students with a declared major of BS in Computer Science are exempt from the Foreign Language Graduation Requirement.

### Certificate in Advanced Programs - Graduate

#### Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available only for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 201</td>
<td>Programming Language Principles</td>
<td>3</td>
</tr>
<tr>
<td>CSC 204</td>
<td>Data Models for Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 205</td>
<td>Computer Systems Structure</td>
<td>3</td>
</tr>
<tr>
<td>CSC 206</td>
<td>Algorithms And Paradigms</td>
<td>3</td>
</tr>
</tbody>
</table>

### Certificate in Computer Architecture - Graduate

#### Units required for Certificate: 9

#### Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available only for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 242</td>
<td>Computer-Aided Systems Design and Verification</td>
<td>3</td>
</tr>
<tr>
<td>CSC/EEE 280</td>
<td>Advanced Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CSC 237</td>
<td>Microprocessor Systems Architecture</td>
<td></td>
</tr>
<tr>
<td>CSC 245</td>
<td>Performance Modeling and Evaluation</td>
<td></td>
</tr>
<tr>
<td>CSC 258</td>
<td>Distributed Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC/EEE 273</td>
<td>Hierarchical Digital Design Methodology</td>
<td></td>
</tr>
<tr>
<td>CSC 288</td>
<td>Special Topics in Computer Science - Software Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 9

### Certificate in Computer Engineering - Graduate

#### Units required for Certificate: 9
Program Description
The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available only for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 237</td>
<td>Microprocessor Systems Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CSC/EEE 280</td>
<td>Advanced Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>EEE 285</td>
<td>Micro-Computer System Design I</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

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<thead>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Computer-Aided Systems Design and Verification</td>
<td>3</td>
</tr>
<tr>
<td>CSC/EEE 273</td>
<td>Hierarchical Digital Design Methodology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC/CPE 159</td>
<td>Operating System Pragmatics</td>
<td>3</td>
</tr>
<tr>
<td>CSC 239</td>
<td>Advanced Operating Systems Principles and Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units = 9

Certificate in Computer Networks and Communications - Graduate

Units required for Certificate: 9

Program Description
The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available only for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 152</td>
<td>Cryptography</td>
<td>3</td>
</tr>
<tr>
<td>CSC 153</td>
<td>Computer Forensics Principles and Practices</td>
<td>3</td>
</tr>
<tr>
<td>CSC 154</td>
<td>Computer System Attacks and Countermeasures</td>
<td>3</td>
</tr>
<tr>
<td>CSC/CPE 159</td>
<td>Operating System Pragmatics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units = 12

Certificate in Data Management Systems - Graduate

Units required for Certificate: 9

Program Description
The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available only for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 255</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>CSC 254</td>
<td>Network Security</td>
<td>3</td>
</tr>
<tr>
<td>CSC 258</td>
<td>Distributed Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 275</td>
<td>Advanced Data Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 288</td>
<td>Special Topics in Computer Science - Software Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units = 9

Certificate in Cyber Defense and Operations

Units required for Certificate: 12
Certificate in Data Mining - Graduate

Units required for Certificate: 9

Program Description
The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area. These certificates are available only for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 244</td>
<td>Database System Design</td>
<td>3</td>
</tr>
<tr>
<td>CSC 250</td>
<td>Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>CSC 258</td>
<td>Distributed Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 288</td>
<td>Special Topics in Computer Science - Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Certificate in Game Engineering

Units required for Certificate: 12

Program Description
This certificate is intended to give students an opportunity to explore the science and engineering of computer games, and to prepare students for careers in those fields of computing which utilize or are heavily impacted by advances in computer gaming. These include such areas as video and strategy game development, 3-D graphics, modeling and animation and their support tools, intelligent decision making, specialized user interface hardware, machine learning, and working in interdisciplinary teams.

Academic Certificates
In addition to completing the requirements for the Bachelor of Sciences in Computer Science degree program, students enrolled in the major may also complete one of the (optional) 9-12 unit Academic Certificate programs. Each certificate includes 9 required units which can overlap with elective coursework taken to satisfy the major requirements, with some of the certificates requiring 3 additional units (1 additional course) beyond the degree requirements. Students interested in earning a certificate in addition to their degrees should meet with an academic advisor.

Requirements for Certificates
Certain combinations of courses gives students a deeper understanding of specialized areas in Computer Science. Completion of any of the following course lists entitles the student to receive a certificate indicating that they concentrated their elective study in the particular area. The Computer Science Department will try and offer on a regular basis all courses required for each certificate, but course cancellations and scheduling conflicts do sometimes occur causing students difficulty in completing their desired course study. In such situations, students may need to forgo completion of their certificate. Printed certificates must be requested directly from the Computer Science Department office after a student graduates.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 155</td>
<td>Advanced Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CSC 165</td>
<td>Computer Game Architecture and Implementation</td>
<td>3</td>
</tr>
<tr>
<td>CSC 180</td>
<td>Intelligent Systems</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CSC 126</td>
<td>3D Computer Modeling</td>
<td></td>
</tr>
<tr>
<td>ART 142</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 127</td>
<td>3D Computer Animation</td>
<td></td>
</tr>
<tr>
<td>ART 142</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC/CPE 159</td>
<td>Operating System Pragmatics</td>
<td></td>
</tr>
<tr>
<td>CSC 177</td>
<td>Data Analytics and Mining</td>
<td></td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Certificate in Information Assurance and Security

Units required for Certificate: 12

Program Description
The Information Assurance and Security certificate is designed to help students advance their technical skills to prepare for a leadership role in planning, managing, certifying and accrediting a security and incident response plan for their organization - including methods to combat threats to organization information resources, which in today's world is becoming top priority for many businesses since most information is in electronic form.

Academic Certificates
In addition to completing the requirements for the Bachelor of Sciences in Computer Science degree program, students enrolled in the major may also complete one of the (optional) 9-12 unit Academic Certificate programs. Each certificate includes 9 required units which can overlap with elective coursework taken to satisfy the major requirements, with some of the certificates requiring 3 additional units (1 additional course) beyond the degree requirements. Students interested in earning a certificate in addition to their degrees should meet with an academic advisor.

Requirements for Certificates
Certain combinations of courses gives students a deeper understanding of specialized areas in Computer Science. Completion of any of the following course lists entitles the student to receive a certificate indicating that they concentrated their elective study in the particular area. The Computer Science Department will try and offer on a regular basis all courses required for each certificate, but course cancellations and scheduling conflicts do sometimes occur causing students difficulty in completing their desired course study. In such situations, students may need to forgo completion of their certificate. Printed certificates must be requested directly from the Computer Science Department office after a student graduates.
basis all courses required for each certificate, but course cancellations and scheduling conflicts do sometimes occur causing students difficulty in completing their desired course study. In such situations, students may need to forgo completion of their certificate. Printed certificates must be requested directly from the Computer Science Department office after a student graduates.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 152</td>
<td>Cryptography</td>
<td>3</td>
</tr>
<tr>
<td>CSC 153</td>
<td>Computer Forensics Principles and Practices</td>
<td>3</td>
</tr>
<tr>
<td>CSC 154</td>
<td>Computer System Attacks and Countermeasures</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Certificate in Information Assurance and Security - Graduate

Units required for Certificate: 9

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available only for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 215</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Select two of the following:</strong></td>
<td><strong>6</strong></td>
</tr>
<tr>
<td>CSC 214</td>
<td>Knowledge-Based Systems</td>
<td></td>
</tr>
<tr>
<td>CSC 219</td>
<td>Machine Learning</td>
<td></td>
</tr>
<tr>
<td>CSC 288</td>
<td>Special Topics in Computer Science - Software Engineering</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Certificate in Software Engineering

Units required for Certificate: 12

Program Description

The Software Engineering certificate is designed to focus on the principles of designing, building, testing and maintaining reliable, efficient, and secure software systems. The certificate is designed to emphasize the knowledge, competencies, and skills needed to produce competent graduates to begin a professional career in the field of software engineering, or pursue graduate programs.

Academic Certificates

In addition to completing the requirements for the Bachelor of Sciences in Computer Science degree program, students enrolled in the major may also complete one of the (optional) 9-12 unit Academic Certificate programs. Each certificate includes 9 required units which can overlap with elective coursework taken to satisfy the major requirements, with some of the certificates requiring 3 additional units (1 additional course) beyond the degree requirements. Students interested in earning a certificate in addition to their degrees should meet with an academic advisor.

Requirements for Certificates

Certain combinations of courses gives students a deeper understanding of specialized areas in Computer Science. Completion of any of the following course lists entitles the student to receive a certificate indicating that they concentrated their elective study in the particular area. The Computer Science Department will try and offer on a regular basis all courses required for each certificate, but course cancellations and scheduling conflicts do sometimes occur causing students difficulty in completing their desired course study. In such situations, students may need to forgo completion of their certificate. Printed certificates must be requested directly from the Computer Science Department office after a student graduates.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 170</td>
<td>Software Requirements and Specification</td>
<td>3</td>
</tr>
<tr>
<td>CSC 171</td>
<td>Software Engineering Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CSC 179</td>
<td>Software Testing and Quality Assurance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Select one of the following:</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>CSC 154</td>
<td>Computer System Attacks and Countermeasures</td>
<td></td>
</tr>
<tr>
<td>CSC 174</td>
<td>Advanced Database Management Systems</td>
<td></td>
</tr>
<tr>
<td>CSC 176</td>
<td>Database Architecture and Optimization</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>
Certificate in Software Engineering - Graduate

Units required for Certificate: 9

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area. These certificates are available only for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 230</td>
<td>Software System Engineering</td>
<td></td>
</tr>
<tr>
<td>CSC 231</td>
<td>Software Engineering Metrics</td>
<td></td>
</tr>
<tr>
<td>CSC 232</td>
<td>Software Requirements Analysis and Design</td>
<td></td>
</tr>
<tr>
<td>CSC 233</td>
<td>Advanced Software Engineering Project Management</td>
<td></td>
</tr>
<tr>
<td>CSC 234</td>
<td>Software Verification and Validation</td>
<td></td>
</tr>
<tr>
<td>CSC 235</td>
<td>Software Architecture</td>
<td></td>
</tr>
<tr>
<td>CSC 236</td>
<td>Formal Methods in Secure Software Engineering</td>
<td></td>
</tr>
<tr>
<td>CSC 238</td>
<td>Human-Computer Interface Design</td>
<td></td>
</tr>
<tr>
<td>CSC 288</td>
<td>Special Topics in Computer Science - Software Engineering</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 9

Certificate in Systems Software Graduate

Units required for Certificate: 12

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area. These certificates are available only for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 239</td>
<td>Advanced Operating Systems Principles and Design</td>
<td></td>
</tr>
</tbody>
</table>

Select at least two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 245</td>
<td>Performance Modeling and Evaluation</td>
<td></td>
</tr>
<tr>
<td>CSC 250</td>
<td>Computer Security</td>
<td></td>
</tr>
<tr>
<td>CSC 251</td>
<td>Principles of Compiler Design</td>
<td></td>
</tr>
<tr>
<td>CSC 258</td>
<td>Distributed Systems</td>
<td></td>
</tr>
<tr>
<td>CSC 288</td>
<td>Special Topics in Computer Science - Software Engineering</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 9

Minor in Computer Science

Units required for Minor: 21

Program Description

The Minor in Computer Science is available for students majoring in disciplines other than Computer Engineering.

Admission Requirement

Completion of MATH 29 with a grade of "C-" or better, or passing the ELM at a level qualifying for MATH 30.

Minimum Grade Requirement

Grade of "C-" or better required in all courses applied to the Computer Science minor.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 15</td>
<td>Programming Concepts and Methodology I</td>
<td>3</td>
</tr>
<tr>
<td>CSC 20</td>
<td>Programming Concepts and Methodology II</td>
<td>3</td>
</tr>
<tr>
<td>CSC 28</td>
<td>Discrete Structures for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSC 130</td>
<td>Data Structures and Algorithm Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (9 Units)
Select 9 units with faculty approval ¹

Total Units 21

¹ At least six units must be upper division courses, and only Computer Science courses which are part of the major may be applied to this nine-unit requirement.

Minor in Information Security and Computer Forensics

Units required for Minor: 15

Program Description

The Minor in Information Security and Computer Forensics is available for students majoring in disciplines other than Computer Engineering.

Minimum Grade Requirement

Grade of "C-" or better required in all courses applied to the Computer Science minor.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 1</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSC 8</td>
<td>Introduction to Internet Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CSC 8S</td>
<td>Self-Paced Introduction to Internet Technologies</td>
<td></td>
</tr>
<tr>
<td>CSC 80</td>
<td>Web Development with HTML/XHTML and Tools</td>
<td></td>
</tr>
<tr>
<td>CSC 15</td>
<td>Programming Concepts and Methodology I</td>
<td>3</td>
</tr>
<tr>
<td>CSC 22</td>
<td>Visual Programming in BASIC</td>
<td></td>
</tr>
<tr>
<td>CSC 25</td>
<td>Introduction to C Programming</td>
<td></td>
</tr>
<tr>
<td>CSC 115</td>
<td>Internet Security</td>
<td>3</td>
</tr>
<tr>
<td>CSC 116</td>
<td>Cyber Forensics</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

MS in Computer Science

Total units required for MS: 30

Program Description

The Computer Science Department offers Master’s Degree programs in Computer Science and Software Engineering, Certificates of Advanced Study for students enrolled in the Computer Science program, and a Master’s Degree joint program in Computer Engineering.

The primary goal of each of these programs is to prepare students to serve as effective professional computer specialists in a society which increasingly depends on computer usage and technology.

A secondary goal is to prepare interested students for research, teaching, or further study toward the Ph.D. in Computer Science. The programs also enable individuals with background in other areas to obtain the skills and knowledge necessary to enter and advance in employment in computer-related industries.

Completion of the Master of Science in Computer Science requires advanced coursework in a minimum of three of the following areas: computer architecture/computer engineering, database management systems, information assurance and security, intelligent systems, networks and communications, software engineering, and systems software. Students must obtain approval from the department to take more than one course in one area.

Teaching associateships are occasionally available for qualified graduate students; these students assist in instruction of undergraduate courses, supervision of laboratory work, and aid faculty members in research projects. Interested persons should apply in the Department office.

Due to the large number of graduate students in Computer Science who are employed, most graduate level courses are offered in the late afternoon or evening.

Admission Requirements

Admission as a classified graduate student requires:

• a baccalaureate degree;
• a minimum 3.0 GPA in the last 60 units attempted;
• GRE general test;
• mathematical preparation including two semesters of calculus and one semester of calculus-based probability and statistics corresponding to Sacramento State courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>STAT 50</td>
<td>Introduction to Probability and Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

• Computer Science lower-division preparation including programming proficiency, discrete structures, machine organization, and UNIX and PC-based program development environment proficiency corresponding to Sacramento State courses (see the following) and as evidenced by a pass on the graduate student placement test or a baccalaureate degree in Computer Science:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 15</td>
<td>Programming Concepts and Methodology I</td>
<td>3</td>
</tr>
<tr>
<td>CSC 20</td>
<td>Programming Concepts and Methodology II</td>
<td>3</td>
</tr>
<tr>
<td>CSC 28</td>
<td>Discrete Structures for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSC 35</td>
<td>Introduction to Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CSC 60</td>
<td>Introduction to Systems Programming in UNIX</td>
<td>3</td>
</tr>
</tbody>
</table>

• Computer Science advanced preparation as evidenced by a 3.25 GPA in the following Sacramento State upper division Computer Science courses or their equivalent elsewhere:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 130</td>
<td>Data Structures and Algorithm Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CSC 131</td>
<td>Computer Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSC 134</td>
<td>Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSC 135</td>
<td>Computing Theory and Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>CSC 137</td>
<td>Computer Organization</td>
<td>3</td>
</tr>
<tr>
<td>CSC/CPE 138</td>
<td>Computer Networking Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CSC 139</td>
<td>Operating System Principles</td>
<td>3</td>
</tr>
</tbody>
</table>
Applicants with deficiencies in the admission requirements area are advised to remove any such deficiencies before applying.

**Admission Procedures**

Applicants must complete a university application and a separate departmental application by the posted application deadline dates for the term applying. For more admissions information and application deadlines, please visit the Office of Graduate Studies website ([http://www.csus.edu/gradstudies/](http://www.csus.edu/gradstudies/)):

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, other than Sacramento State; and
- official GRE general test scores.

**Minimum Units and Grade Requirement for the Degree**

Units Required for the MS: 30

Minimum Cumulative GPA: 3.0. No grade below "C" may count toward the degree.

**Note:** Only those courses completed within seven years prior to date of graduation will satisfy course requirements.

**Advancement to Candidacy**

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of graduate level (200 series) Computer Science courses with a minimum 3.0 GPA; and
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

Students must have been advanced to candidacy before they can register for Master's thesis or project. Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a Computer Science graduate advisor. The completed form must be signed by the Graduate Coordinator or the Department Chair and is then returned to the Office of Graduate Studies for approval.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses (13 Units)</strong></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>CSC 200</td>
<td>Professional Writing in Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CSC 201</td>
<td>Programming Language Principles</td>
<td>3</td>
</tr>
<tr>
<td>CSC 205</td>
<td>Computer Systems Structure ¹</td>
<td>3</td>
</tr>
<tr>
<td>CSC 206</td>
<td>Algorithms And Paradigms</td>
<td>3</td>
</tr>
<tr>
<td>CSC 209</td>
<td>Research Methodology</td>
<td>1</td>
</tr>
<tr>
<td><strong>Breadth Requirement (9 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one course from three of the following areas:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td><strong>Computer Architecture/Computer Engineering</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 237</td>
<td>Microprocessor Systems Architecture</td>
<td></td>
</tr>
<tr>
<td>CSC 242</td>
<td>Computer-Aided Systems Design and Verification</td>
<td></td>
</tr>
<tr>
<td>CSC/EEE 273</td>
<td>Hierarchical Digital Design Methodology</td>
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</tr>
<tr>
<td>CSC/EEE 280</td>
<td>Advanced Computer Architecture</td>
<td></td>
</tr>
</tbody>
</table>

**Database Management Systems**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 212</td>
<td>Bioinformatics: Data Integration and Algorithms</td>
</tr>
<tr>
<td>CSC 244</td>
<td>Database System Design</td>
</tr>
</tbody>
</table>

**Information Assurance and Security**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 250</td>
<td>Computer Security</td>
</tr>
<tr>
<td>CSC 252</td>
<td>Cryptography Theory and Practice</td>
</tr>
<tr>
<td>CSC 253</td>
<td>Computer Forensics</td>
</tr>
<tr>
<td>CSC 254</td>
<td>Network Security</td>
</tr>
</tbody>
</table>

**Intelligent Systems**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CSC 214</td>
<td>Knowledge-Based Systems</td>
</tr>
<tr>
<td>CSC 215</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>CSC 219</td>
<td>Machine Learning</td>
</tr>
</tbody>
</table>

**Networks and Communications**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CSC 255</td>
<td>Computer Networks</td>
</tr>
<tr>
<td>CSC 258</td>
<td>Distributed Systems</td>
</tr>
<tr>
<td>CSC 275</td>
<td>Advanced Data Communication Systems</td>
</tr>
</tbody>
</table>

**Software Engineering**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CSC 230</td>
<td>Software System Engineering</td>
</tr>
<tr>
<td>CSC 231</td>
<td>Software Engineering Metrics</td>
</tr>
<tr>
<td>CSC 232</td>
<td>Software Requirements Analysis and Design</td>
</tr>
<tr>
<td>CSC 233</td>
<td>Advanced Software Engineering Project</td>
</tr>
<tr>
<td>CSC 234</td>
<td>Software Verification and Validation</td>
</tr>
<tr>
<td>CSC 235</td>
<td>Software Architecture</td>
</tr>
<tr>
<td>CSC 236</td>
<td>Formal Methods in Secure Software Engineering</td>
</tr>
<tr>
<td>CSC 238</td>
<td>Human-Computer Interface Design</td>
</tr>
</tbody>
</table>

**System Software**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CSC 239</td>
<td>Advanced Operating Systems Principles and Design</td>
</tr>
<tr>
<td>CSC 245</td>
<td>Performance Modeling and Evaluation</td>
</tr>
<tr>
<td>CSC 250</td>
<td>Computer Security</td>
</tr>
<tr>
<td>CSC 251</td>
<td>Principles of Compiler Design</td>
</tr>
</tbody>
</table>

**Restricted Electives (3-6 Units)**

Select 3-6 units ² ³ 3 - 6

**Culminating Requirement (2-5 Units)**

Select one of the following: ² ³ 2 - 5

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 500</td>
<td>Master's Thesis</td>
</tr>
<tr>
<td>CSC 502</td>
<td>Master's Project</td>
</tr>
</tbody>
</table>

1 Students whose undergraduate preparation has covered a significant amount of the material in CSC 205 or CSC 206 may be given a waiver by the Department from taking one or more of these courses. In this case, for each course waived with department approval, the student must take three additional units from the list below.
Admission as a classified graduate student requires:

- Admission Requirements

- Projects. Interested persons should apply in the Department office.
- Supervision of laboratory work, and aid faculty members in research
- Teaching associateships are occasionally available for qualified graduate
- Testing, operation, and maintenance.
- Program covers the entire software application development process
- Involving some aspect of software engineering.
- Science (or related field) or a minimum of one-year's work experience
- Individuals wishing to pursue a degree must satisfy the Computer
- Science advanced preparation as evidenced by a 3.25 GPA
- Students should choose their electives according to the following
- 1. Any 200-level CSC courses not already used to satisfy the Breadth
- Requirement, with the exception of CSC 295 and CSC 299. Students not
- required to take CSC 205 or CSC 206 must, for each course waived, take an
- additional three units in this category.
- 2. Undergraduate upper division elective courses whose topics are not
- covered by any 200-level CSC courses as long as they have not been used
- towards another degree. (A maximum of 6 undergraduate units may be
- used in any graduate program.) Prior to taking any of these electives, students must obtain approval from the department.
- 3. Related 200-level courses from outside the Computer Science Department
- may only be taken with prior department approval and may not have been used
- in another program.

Students are required to make an oral presentation of their master’s
project or conduct an oral defense of their master’s thesis. The
recommended department-level deadline in each semester for
submitting an MS project or thesis signed by the committee chair
and its members to the Graduate Coordinator’s office is 10 working
days prior to the University deadline.

**MS in Software Engineering**

Total units required for MS: 30-33

**Program Description**

This degree provides the student with the ability to specialize in the
application of software engineering principles to the development of large
and complex computer systems.

The program's courses are structured to satisfy two groups of students:

- 1. those pursuing an MSSE degree and
- 2. those interested in individual courses.

Individuals wishing to pursue a degree must satisfy the Computer
Science graduate program entrance requirements. Those enrolling in
individual courses must have an undergraduate degree in Computer
Science (or related field) or a minimum of one-year’s work experience
involving some aspect of software engineering.

The MS Degree in Software Engineering offers, in addition to a core
curriculum, advanced studies in the software engineering area. This
program covers the entire software application development process
from problem definition through requirements, design, implementation,
testing, operation, and maintenance.

Teaching associateships are occasionally available for qualified graduate
students; these students assist in instruction of undergraduate courses,
supervision of laboratory work, and aid faculty members in research
projects. Interested persons should apply in the Department office.

**Admission Requirements**

Admission as a classified graduate student requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units attempted;
- GRE general test;
- mathematical preparation including two semesters of calculus
  and one semester of calculus-based probability and statistics
  corresponding to Sacramento State courses:

- Computer Science lower-division preparation including programming
  proficiency, discrete structures, machine organization, and UNIX
  and PC-based program development environment proficiency
  corresponding to Sacramento State courses (see the following) and
  as evidenced by a pass on the graduate student placement test or a
  baccalaureate degree in Computer Science;

- Computer Science advanced preparation as evidenced by a 3.25 GPA
  in the following Sacramento State upper division Computer Science
  courses or their equivalent elsewhere:

**Minimum Units and Grade Requirement for the Degree**

Units Required for the MS: 30

Minimum Cumulative GPA: 3.0. No grade below "C" may count toward
the degree.

**Note:** Only those courses completed within seven years prior to date of
graduation will satisfy course requirements.
Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of graduate level (200 series) Computer Science courses with a minimum 3.0 GPA; and
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento and passed the course with a grade of B or better.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Software Engineering Courses (21 Units)</td>
<td></td>
<td>21</td>
</tr>
<tr>
<td>Select seven of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 230</td>
<td>Software System Engineering</td>
<td></td>
</tr>
<tr>
<td>CSC 231</td>
<td>Software Engineering Metrics</td>
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<tr>
<td>CSC 232</td>
<td>Software Requirements Analysis and Design</td>
<td></td>
</tr>
<tr>
<td>CSC 233</td>
<td>Advanced Software Engineering Project Management</td>
<td></td>
</tr>
<tr>
<td>CSC 234</td>
<td>Software Verification and Validation</td>
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<td>Formal Methods in Secure Software Engineering</td>
<td></td>
</tr>
<tr>
<td>CSC 238</td>
<td>Human-Computer Interface Design</td>
<td></td>
</tr>
<tr>
<td>Required Research Methodology and GWI (4 Units)</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>CSC 200</td>
<td>Professional Writing in Computer Science</td>
<td>3</td>
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<tr>
<td>CSC 209</td>
<td>Research Methodology</td>
<td>1</td>
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<tr>
<td>Restricted Electives (0-3 Units)</td>
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<td></td>
</tr>
<tr>
<td>Select 0-3 units</td>
<td></td>
<td>0-3</td>
</tr>
<tr>
<td>Culminating Requirement (2-5 Units)</td>
<td></td>
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<tr>
<td>Select one of the following:</td>
<td></td>
<td>2-5</td>
</tr>
<tr>
<td>CSC 500</td>
<td>Master's Thesis</td>
<td>3</td>
</tr>
<tr>
<td>CSC 502</td>
<td>Master's Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 30-33

1 Students who select CSC 502 (Master’s Project) for 2 units are required to take a 3-unit restricted elective. Students who select CSC 500 (Master’s Thesis) for 5 units are not required to take a restricted elective.

2 Prior to taking an elective course, students must obtain approval from their advisor, and either the Graduate Coordinator or the Department Chair. Students should choose their electives according to the following guidelines: (1) Undergraduate upper-division elective courses whose topics are not covered by any 200-level CSC courses as long as they have not been used towards another degree. (A maximum of 3 undergraduate units may be used in any graduate program); (2) Any 200-level CSC course not already used, with the exception of CSC 295 and CSC 299. An additional three units in this category must be taken if a core course is waived; (3) Related 200-level courses from outside the Computer Science Department may only be taken with prior approval from the Graduate Coordinator or Department Chair and may not have been used in another program.

3 Students are required to make an oral presentation of their master’s project or conduct an oral defense of their master’s thesis. The recommended department-level deadline in each semester for submitting an MS project or thesis signed by the Committee Chair and its members to the Graduate Coordinator’s office is 10 weekdays prior to the University deadline.

Construction Management

College of Engineering and Computer Science

Program Description

The Sacramento State University Construction Management degree prepares students for managerial positions with contractors and other organizations involved in the construction process. For a graduate, this preparation can combine with experience and lead to recognition as a construction professional, a Constructor. The construction professional is responsible for the execution of construction work, for the creation of completed projects from plans prepared by design professionals such as architects and engineers. What is to be built is defined by design professionals; how the work is to be accomplished is the concern of the Constructor. A Constructor determines the methods to be used and directs the economical application of resources in the construction of timely and safe projects at satisfactory prices, and to the required standards of quality.

The immediate objective of the program is to provide university-level preparation for managerial positions in construction and a foundation for continued learning. The curriculum emphasizes subject areas that are significant to the Constructor: engineering fundamentals, construction management, business administration, humanities and social sciences, and the development of analytical and communication skills.

Degree Program

BS in Construction Management with a Minor in Business Administration (p. 623)

Accreditation

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Construction Management is also individually accredited by the American Council for Construction Education.

Notice to Students RE: Professional Licensure and Certification

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states' educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state's requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(O).
Special Features
To meet the objectives of this specialized professional program, the Construction Management curriculum consists of four distinct components:

Engineering: Based in sciences and mathematics, this component stresses engineering principles and their application to the construction process. This component provides sound engineering fundamentals.

Construction Management: This component utilizes the functional approach as a framework for studying the management of the construction process. In the individual courses, construction activities are analyzed from a managerial viewpoint and the functions of management are stressed.

Business Administration Courses: Business courses form the third component and reinforce the program’s management emphasis. A minor in Business Administration is obtained by combining the required lower and upper division business courses. Furthermore, completing the minor requirements can satisfy many of the core requirements of the graduate program in Business Administration at Sacramento State.

General Education Courses: The fourth component is critical to the success of construction students who must be sensitive to the issues driving contemporary society.

- This unique program is accredited by the American Council for Construction Education (ACCE).

Academic Policies and Procedures
The following is a summary of policies and procedures specific to the Construction Management program. Other university policies and procedures in this catalog also apply to Construction Management majors. The Department will not hear petitions for deviation from articulated policies made by students who disregard catalog policy.

- Most Construction Management courses require a grade of "C-" or better.
- Course Repeat Policy: Undergraduate Construction Management courses that are used to meet the degree requirements for the Bachelor of Science degree in Construction Management may be repeated only twice (for a total of three attempts). Grades of the second and third attempt will be averaged in grade point calculations.

Career Possibilities
Construction Manager · General Contractor · Sub-Contractor · Project Manager · Construction Estimator · Technical Salesperson · Construction Scheduler or Planner · Forensic Construction Specialist · Environmental Remediation Contractor · Construction Consultant

Contact Information
Mikael Anderson, P.E., Professor and Department Chair
Anyssa Lumbert, Administrative Support Coordinator
Riverside Hall 4026
(916) 278-6616
Department of Construction Management Website (https://www.csus.edu/college/engineering-computer-science/construction-management/)

Faculty
ANDERSON, MIKAEL

FIGGESS, GARETH
HANSEN, KAREN L.
MANTELL, ANDY
SALAMA, TAREK

CM 9. Construction Surveying and Layout. 3 Units
Prerequisite(s): CM 10, CM 20, CM 21 and either Math 26A or MATH 30; CM 21 and Math 26A or MATH 30 may be taken concurrently.
Corequisite(s): CM 21.
Term Typically Offered: Fall, Spring

Geomatics and the principles of surveying measurements for distance, direction, and elevation. Special emphasis on the application of surveying skills relevant to the field of construction, including building, bridge, and sitework layout techniques and procedures, establishment of reference line and grade, topographic mapping, and earthwork computations. Lecture two hours. Laboratory 3 hours.

CM 10. The Construction Industry. 1 Unit
Term Typically Offered: Fall, Spring

Introduction to the Construction Management program and the many facets of the construction industry and to the various career opportunities. The unique products of construction, the organizations involved, and the people that make it happen. Guest speakers. Lecture one hour.
Credit/No Credit

CM 15. Fundamentals of Construction Management. 3 Units
Prerequisite(s): CM 10, CM 10 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to the Construction Management program and industry. Critical reading, thinking and writing for the construction profession. Introduction to visualization and graphic communication using both manual and computer assisted techniques. Introduction to quantitative software commonly used in the construction industry.

CM 20. Construction Materials and Processes. 3 Units
Prerequisite(s): CM 10, ENGL 1A; CM 10 may be taken concurrently.
Term Typically Offered: Spring only

Introduction to construction materials; to their properties in-place in completed projects, and to their characteristics that affect construction processes. The organizations, methods, equipment and safety considerations that are common to projects of all types and to all segments of the industry. Field trips. Lecture two hours; laboratory three hours.
Field trip(s) may be required.

CM 21. Construction Graphics. 3 Units
Prerequisite(s): ENGL 1A and CM 10; CM 10 may be taken concurrently.
Term Typically Offered: Fall only

Instruction and exercises in graphic techniques and procedures applicable to construction. Analysis of drawings in the civil, architectural, structural, mechanical, and electrical fields and how drawings affect construction planning. Freehand sketching. Isometric and oblique projections. Material quantity surveying. Lecture two hours; laboratory three hours.
CM 22. Construction Documents. 3 Units
Prerequisite(s): ENGL 1A, CM 20, and CM 21; CM 20 may be taken concurrently.
Term Typically Offered: Spring only

Analyzes construction contract documents. Technical and legal interpretations and implications to managers of the construction process. Quantity surveying. Lecture two hours; laboratory three hours.

CM 30. Engineering Mechanics-Statics. 3 Units
Prerequisite(s): MATH 26A or MATH 30; and PHYS 5A or PHYS 11A.
Term Typically Offered: Spring only

Introduction to the solution of engineering design problems. Concepts of units, vectors, equilibrium, forces, force systems, shear and moment diagrams. Lecture three hours.

CM 40. Properties of Construction Materials. 3 Units
Prerequisite(s): PHY5 5A.
Term Typically Offered: Fall only

Study of the engineering performance characteristics of materials. Covers testing concepts and procedures. Includes basic properties of metals, aggregates, cements, concrete, timber, asphalt, masonry and plastics with emphasis on construction applications. Lecture two hours; laboratory three hours.

CM 110. Legal Aspects of Construction. 3 Units
Prerequisite(s): Senior class standing, MGMT 101, CM 22.
Corequisite(s): CM 126
Term Typically Offered: Fall only

Application of advanced legal concepts to the construction process. Analyzes problems relating to contract formation, administration, and interpretation. Includes bidding and contract enforcement; litigation of disputes vs. arbitration; liability for negligence, warranty, and strict liability; safety; license law requirements; mechanics’ liens and stop notices; bond rights and obligations. Lecture three hours.

CM 111. Construction Labor Relations. 3 Units
Term Typically Offered: Spring only

Study of federal and state labor law; labor unions, and their importance in the construction industry; and an analysis of the growth of open-shop construction. Employment law. Lecture three hours.

CM 120. Construction Operations and Methods Analysis. 3 Units
Prerequisite(s): CM 22.
Corequisite(s): CM 121.
Term Typically Offered: Fall only

Introduction to the analysis and management of construction projects in terms of the work that must be performed in the construction process. Analyzes operations and methods using concepts and techniques, including video, that are applicable to all types of projects in all segments of the industry, variables affecting productivity. Safety as an integral part of project and operations management. Field trips. Lecture two hours; laboratory three hours. Field trip(s) may be required.

CM 121. Fundamentals of Construction Estimating. 3 Units
Prerequisite(s): CM 22.
Corequisite(s): CM 120.
Term Typically Offered: Fall only

Study of the basic approaches to estimating the cost of construction projects from a managerial viewpoint. Types of estimates and methods; elements of cost, variables and costing concepts; analysis procedures for detailed estimates. Lecture two hours; laboratory three hours.

CM 124. Engineering Construction. 3 Units
Prerequisite(s): CM 125, CM 135.
Term Typically Offered: Fall only

Study of engineering construction projects with emphasis on equipment-paced operations including safety aspects. Engineering fundamentals and other factors that affect equipment selection and production. Amplification of recording and analysis techniques. Unit price contracts. Field trips. Lecture two hours; laboratory three hours. Field trip(s) may be required.

CM 125. Advanced Estimating and Bidding. 3 Units
Prerequisite(s): CM 120, CM 121.
Term Typically Offered: Spring only

Study of the concepts and practices involved in the total estimating and bidding process in construction, from initial project selection to submission of final bids. Covers considerations in project selection, sub-bid analysis, contingency and risk analysis, pricing concepts, bidding models, and an introduction to computer applications. A complete project estimate and bid is prepared by each student. Lecture two hours; laboratory three hours.

CM 126. Construction Project Management. 3 Units
Prerequisite(s): CM 125, CM 127.
Corequisite(s): CM 110.
Term Typically Offered: Fall only

Introduction to the study of Project Management as it is used on the larger construction project. Students study how construction contractors manage cost, time, scope, and quality. The theory of Project Management is developed and compared to management of the on-going business enterprise. Matrix and functional organizations are examined within the context of the industrial, commercial and heavy contract construction industries using the principles of the management process. Lecture three hours.

CM 127. Planning, Scheduling and Control. 3 Units
Prerequisite(s): CM 121.
Term Typically Offered: Spring only

Study of the concepts used in planning and controlling construction projects. Arrow, PERT, precedence, and linear scheduling methods; resource leveling; time-cost analysis; bar charts; and time-scaled diagrams. Manual procedures followed by computer applications. Lecture three hours.
CM 129. Senior Project. 3 Units
Prerequisite(s): CM 110, CM 111, CM 124, CM 126, HROB 101.
Term Typically Offered: Spring only

Consideration of technical, legal, business and human factors (including safety) in applying the functional approach to the management of construction organizations, projects, and operations. The individual construction professional in a competitive industry: personal and professional development, ethics, stress, physical and mental health. The industry and the construction professional in relation to the social and physical environments. Lecture three hours.

CM 130. Structures I -- Design Principles and Structural Steel Design. 3 Units
Prerequisite(s): CM 30, CM 40; CM 40 may be taken concurrently.
Term Typically Offered: Fall only

Introduction to structural design. Consideration of load conditions, stresses, strain, beam deflection and column action. Basic design of structural steel members with emphasis on systems used in practical situations. Beams, trusses, and columns are designed using the Uniform Building Code as a reference and the results are shown on detailed drawings and sketches. Lecture three hours.

CM 135. Soils and Foundations. 3 Units
Prerequisite(s): CM 130.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall only

Quantitative analysis of the properties and behaviors of soils used as materials in construction. Index and physical properties of soils including compaction; permeability, compressibility, and shear strength. Methods of laboratory and field tests. Principles of foundation design, pavements, embankments and temporary soil support systems for trenches and cuts. Lecture two hours; laboratory three hours.

Note: This course requires safety training this; course requires personal protective equipment (PPE).

CM 136. Principles of Mechanical and Electrical Engineering. 3 Units
Prerequisite(s): PHYS 5B, CM 30.
Term Typically Offered: Fall only

Basic principles of thermodynamics with application to heating, ventilating and air conditioning systems. Introduction to electrical circuits and circuit analysis with construction applications. Lecture three hours.

CM 140. Structures II -- Timber and Formwork Design. 3 Units
Prerequisite(s): CM 130.
Term Typically Offered: Spring only

Basic design of structural timber members with emphasis on systems used in practical situations. Beams, trusses, and columns are designed using the Uniform Building Code as a reference and the results are shown on detailed drawings and sketches. Application of engineering principles to satisfy construction requirements that are not designed or shown in typical construction documents. Includes analysis and design of concrete form systems, shoring, and falsework, and construction dewatering. Lecture three hours.

CM 150. Structures III -- Reinforced Concrete and Reinforced Masonry. 3 Units
Prerequisite(s): CM 130.
Term Typically Offered: Fall only

Basic design concepts of reinforced concrete and reinforced masonry design. Topics and examples include design of beams, slabs, columns and walls. Students are required to demonstrate drafting ability. Assignments include design and drawings of various structural systems. Lecture three hours.

CM 196D. Virtual Design and Construction. 3 Units
Prerequisite(s): CM 125 & CM127
Term Typically Offered: Fall, Spring

This course consists of instructions and exercises in virtual design applications in construction. Students will learn to develop 2D CAD drawings, 3D building information models (BIM), 4D BIM models to link the 3D model with construction schedules, and 5D models to link the 4D model with construction cost. Students will also learn to visualize an augmented reality BIM model for construction using 3D goggles (Microsoft HoloLens 2), and to utilize 3D laser scanning in capturing the details of an existing.

CM 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students competent to carry on individual work. Admission to this course requires approval of an instructor and the program coordinator.

Credit/No Credit
CM 296A. Sustainable Design and Construction. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall only – even years

Provides a foundation in sustainable building concepts and design principles while giving students the opportunity to practice applying these principles to actual projects. Prepare the new generation of engineers to address complex societal problems and develop the vocabulary and skills to become proactive contributors to sustainable design and construction project teams. This course will be offered experimentally.

BS in Construction Management

Units required for Major: 105 (includes units required for Minor in Business Administration)
Total units required for BS: 134

Program Description
The Sacramento State University Construction Management degree prepares students for managerial positions with contractors and other organizations involved in the construction process. For a graduate, this preparation can combine with experience and lead to recognition as a construction professional, a Constructor. The construction professional is responsible for the execution of construction work, for the creation of completed projects from plans prepared by design professionals such as architects and engineers. What is to be built is defined by design professionals; how the work is to be accomplished is the concern of the Constructor. A Constructor determines the methods to be used and directs the economical application of resources in the construction
of timely and safe projects at satisfactory prices, and to the required standards of quality.

The immediate objective of the program is to provide university-level preparation for managerial positions in construction and a foundation for continued learning. The curriculum emphasizes subject areas that are significant to the constructor: engineering fundamentals, construction management, business administration, humanities and social sciences, and the development of analytical and communication skills.

**Note:** Students graduating with a BS in Construction Management will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

**Note:** Students graduating with a BS in Construction Management consecutively earn a Minor in Business Administration.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ACCY 2</td>
<td>Managerial Accounting ¹</td>
<td>3</td>
</tr>
<tr>
<td>CM 9</td>
<td>Construction Surveying and Layout</td>
<td>3</td>
</tr>
<tr>
<td>CM 10</td>
<td>The Construction Industry</td>
<td>1</td>
</tr>
<tr>
<td>CM 15</td>
<td>Fundamentals of Construction Management</td>
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<td>Construction Materials and Processes</td>
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</tr>
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<tr>
<td>CM 22</td>
<td>Construction Documents</td>
<td>3</td>
</tr>
<tr>
<td>CM 30</td>
<td>Engineering Mechanics--Statics</td>
<td>3</td>
</tr>
<tr>
<td>CM 40</td>
<td>Properties of Construction Materials</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis ¹</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td></td>
</tr>
<tr>
<td>ENVS 10</td>
<td>Introduction to Environmental Science ¹</td>
<td>3</td>
</tr>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences ¹</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 10</td>
<td>Introduction to Business Law</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound ¹</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 5B</td>
<td>General Physics: Light, Electricity and Magnetism, Modern Physics ¹</td>
<td>4</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics ¹</td>
<td>3</td>
</tr>
<tr>
<td>MIS 1</td>
<td>Word Processing</td>
<td>1</td>
</tr>
<tr>
<td>MIS 2</td>
<td>Spreadsheets</td>
<td>1</td>
</tr>
<tr>
<td>MIS 3</td>
<td>Presentation Graphics</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Lower Division Courses (51 Units)</strong></td>
<td>51</td>
<td></td>
</tr>
</tbody>
</table>

### Computer Literacy and Competency (3 Units) ²

- MIS 1: Word Processing
- MIS 2: Spreadsheets
- MIS 3: Presentation Graphics

### Required Upper Division Courses (45 Units) ³

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM 110</td>
<td>Legal Aspects of Construction</td>
<td>3</td>
</tr>
<tr>
<td>CM 111</td>
<td>Construction Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>CM 120</td>
<td>Construction Operations and Methods Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CM 121</td>
<td>Fundamentals of Construction Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CM 124</td>
<td>Engineering Construction</td>
<td>3</td>
</tr>
<tr>
<td>CM 125</td>
<td>Advanced Estimating and Bidding</td>
<td>3</td>
</tr>
<tr>
<td>CM 126</td>
<td>Construction Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CM 127</td>
<td>Planning, Scheduling and Control</td>
<td>3</td>
</tr>
<tr>
<td>CM 129</td>
<td>Senior Project</td>
<td>3</td>
</tr>
<tr>
<td>CM 130</td>
<td>Structures I – Design Principles and Structural Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CM 135</td>
<td>Soils and Foundations</td>
<td>3</td>
</tr>
<tr>
<td>CM 136</td>
<td>Principles of Mechanical and Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CM 140</td>
<td>Structures II – Timber and Formwork Design</td>
<td>3</td>
</tr>
<tr>
<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 117</td>
<td>Business, Ethics and Society ¹</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Upper Division Courses (45 Units)</strong></td>
<td>45</td>
<td></td>
</tr>
</tbody>
</table>

### Electives (6 Units)

Select any 100 level BA course

Select one of the following:

- FIN 101 Business Finance
- MKTG 101 Principles Of Marketing
- OPM 101 Operations Management

**Total Units:** 105

1. Course also satisfies General Education (GE)/Graduation Requirement. For the degree, students must satisfy all the University’s General Education requirements for Construction Management. Students should contact the program office for a complete list of these requirements. A second year foreign language course (2A or equivalent) may also satisfy 3 units of GE when the course is being taken to comply with the Sacramento State foreign language requirement. Students should consult with an advisor for the University's foreign language requirement.

2. All majors and pre-majors shall demonstrate computer literacy and competency prior to taking 100-level construction management or business courses. This requirement is met by passing scores on examinations as administered by the College of Business Administration in each of the following areas:
   - Basic understanding and manipulation skills for operating system, Email system, and browser (covered in MIS 1);
   - Basic facility with spreadsheets using the College of Business Administration’s standard spreadsheet package (covered in MIS 3); and
   - Word processing and presentation graphics (covered in MIS 3).

3. Upper division Construction Management courses are open only to students who have satisfactorily completed all required lower division preparation and have been admitted to the major.

### Notes:

- High school chemistry (one year), mechanical drawing (one year), and trigonometry (one-half year) also required. Students without this high school preparation must take the necessary courses in addition to those listed above.
- The recommended course sequence may change. Students should consult the Construction Management program for current information.

Business Administration lower and upper division courses apply both to the major and to a Business Administration minor. Students interested in pursuing a pre-MBA sequence should contact the Degree Program Center in the College of Business Administration.

### General Education Requirements ¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
A2 - Written Communication  
A3 - Critical Thinking  

Area B: Physical Universe and Its Life Forms (3 Units)  
B1 - Physical Science \(^2\) 0  
B2 - Life Forms \(^2\) 0  
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 \(^2\)) 0  
B4 - Math Concepts \(^2\) 0  
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. 3

Area C: Arts and Humanities (12 Units)  
C1 - Arts 3  
C2 - Humanities 3  
C1/C2 - Area Course C 3  
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. 3

Area D: The Individual and Society (3 Units)  
Area D Course 3  
Area D Course \(^2\) 0  
Area D Course - Take upper-division course to complete Area & upper division requirements. \(^2\) 0

Area E: Understanding Personal Development (3 Units)  
Area E Course 3

Area F: Ethnic Studies (3 Units)  
Area F Course 3

Total Units 33

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement.

3 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Note: Students with a declared major of BS in Construction Management are exempt from the Foreign Language Graduation Requirement.

**Electrical and Electronic Engineering**

**College of Engineering and Computer Science**

**Program Description**

Electrical Engineers design systems that generate, transmit and distribute electricity. Electronic engineers design electronic devices which perform computation, communication, or control of robots and machines. Electrical and electronic engineers work with technologies ranging from large power lines and generators to tiny integrated circuits containing billions of transistors.

The Department of Electrical and Electronic Engineering offers a Bachelor of Science (BS) in Electrical and Electronic Engineering. The Department also offers a Master of Science degree in Electrical and Electronic Engineering, with the following focus areas: control systems, power systems, communication systems, microelectronic design, and computer architecture & digital design.

Students receive a thorough grounding in mathematics and the basic sciences during their first four semesters. Engineering design and applications are stressed in the final four semesters. Prospective students are urged to discuss their plans as early as possible with their high school or community college counselor and with the Electrical and Electronic Engineering Department Chair who will advise students individually.

**Degree Programs**

BS in Electrical and Electronic Engineering (p. 636)  
Certificate in Electric Power Systems and Engineering (p. 638)  
MS in Electrical and Electronic Engineering (p. 638)  
Certificate in Mixed-Signal Integrated Circuit Design (p. 638)

**Accreditation**

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Electrical and Electronic Engineering is also individually accredited by ABET, Inc.

**Notice to Students RE: Professional Licensure and Certification**

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated...
with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states' educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

**Special Features**

- The BS degree in Electrical and Electronic Engineering is accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org (http://www.abet.org/)
- The major strengths of the Electrical and Electronic Engineering program lie in its faculty, whose industrial experience equips them to relate theory to practice and prepare students for the profession or for graduate study.
- The Department has outstanding laboratory facilities to provide hands-on instruction.
- A Committee of power industry leaders from throughout the State is a source of advice and assistance to the Department regarding the preparation of students for careers in power engineering.
- The EEE Department Industry Liaison Council (ILC) consists of industry professionals representing various disciplines within electrical and electronic engineering. The ILC provides feedback on program direction and our outcomes assessment efforts. The ILC is active in providing professional development opportunities for our faculty.
- The Department has a strong IEEE Student Branch. It is among the most active student chapters in the Sacramento Section of IEEE. The student branch has an elected core of officers, who plan and execute the programs of the chapter in consultation with the branch faculty advisor. The primary purpose of the student branch is to develop professional awareness among the students and provide them with opportunities to expand their leadership and communication skills.

**Program Educational Objectives**

The Electrical and Electronic Engineering Program has developed a set of Program Educational Objectives. These statements describe what the faculty is preparing the students to achieve within a few years after graduation:

- Core Knowledge: Our graduates will have active careers in Electrical and Electronic engineering, or be actively engaged in a related career path.
- Application of Knowledge: Our graduates will apply their knowledge and skills to solve practical engineering problems.
- Professionalism: Our graduates will demonstrate the professional skills, such as high ethical standards, effective oral and written communications, and teamwork, necessary to be productive engineers and to advance in their careers.
- Life-long Learning: Our graduates will continue to develop their skills and seek knowledge after graduation in order to adapt to advancing technology and the needs of society. This may be indicated by the graduate's pursuit of an advanced degree or other formal instruction, and/or that the graduate has developed a professional specialty.

**Contact Information**

Mahyar Zarghami, Department Chair
Riverside Hall, Room 3018
(916) 278-6873
Department of Electrical & Electronic Engineering (http://www.ecs.csus.edu/eee/)

**Faculty**

ELTAYEB, MOHAMMED
HEEDLEY, PERRY
KUMAR, PREETHAM
MARKOVIC, MILICA
MEDURI, PRAVEEN
MOGHADAM, ROHOLLAH (ROHAM)
PANG, JING
TOUPS, TRACY
YAZDANI, ATOUSA
ZARGHAMI, MAHYAR

**EEE 64. Introduction to Logic Design.** 4 Units

**Prerequisite(s):** CSC 15 or CSC 25 or ENGR 50

**General Education Area/Graduation Requirement:** Understanding Personal Development (E)

**Term Typically Offered:** Fall, Spring, Summer

Covers the following topics: logic gates, binary number system, conversion between number systems, Boolean algebra, Karnaugh maps, combinational logic, digital logic design, flip-flops, programmable logic devices (PLDs), counters, registers, memories, state machines, designing combinational logic and state machines into PLDs, and basic computer architecture. Lab emphasizes the use of software equation entry design tools, the use of a schematic entry, and the use of a logic simulation design tool. Lab assignments are design-oriented.

Cross Listed: CPE 64; only one may be counted for credit.

**EEE 64P. Peer-Assisted Learning EEE 64.** 1 Unit

**Corequisite(s):** EEE 64

**Term Typically Offered:** Fall, Spring

Students concurrently enrolled in EEE 64 work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of EEE 64 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.

Credit/No Credit

**EEE 64W. Introduction to Logic Design Workshop.** 1 Unit

**Corequisite(s):** EEE 64

**Term Typically Offered:** Fall, Spring

Assists students in developing a more thorough understanding of logic simulation and logic design. Focus is on problem solving and design. Activity two hours. Lecture three hours; laboratory three hours.

Cross Listed: CPE 64W; only one may be counted for credit.

Credit/No Credit
EEE 108.  Electronics I.  3 Units
Prerequisite(s): EEE 117.
Corequisite(s): EEE 108L.
Term Typically Offered: Fall, Spring

Introduction to electronics, ideal OP-AMPS, BJTs, FETs, DC biasing, VI characteristics, single stage amplifiers, low frequency small signal models, power supplies and voltage regulation. PSPICE required.

EEE 108L.  Electronics I Laboratory.  1 Unit
Prerequisite(s): EEE 117, EEE 117L
Corequisite(s): EEE 108
Term Typically Offered: Fall, Spring

Characteristics and applications of semiconductor devices including diodes, BJTs and FETs, and analog integrated circuits including opamps. Introduction to circuit simulation using professional computer-aided design (CAD) software. Laboratory three hours.

EEE 109.  Electronics II.  4 Units
Prerequisite(s): EEE 108, EEE 108L, EEE 117, EEE 117L; and 1)GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Differential and multistage amplifiers, high frequency models (BJTs and FETs), feedback and sensitivity, power amplifiers, oscillators and waveform shaping circuits. Advanced use of PSPICE. Lecture three hours; laboratory three hours.

EEE 110.  Advanced Analog Integrated Circuits.  3 Units
Prerequisite(s): EEE 109 or consent of instructor.
Term Typically Offered: Fall only

The use of operational amplifiers in circuit designs for applications such as filtering, switched capacitor design, sample and hold design, instrumentation amplifiers, and voltage reference circuitry will be explored, as well as topics in Feedback Theory.

EEE 111.  Advanced Analog Integrated Circuits Laboratory.  1 Unit
Prerequisite(s): EEE 109; either EEE 110 or EEE 230. EEE 110 or EEE 230 may be taken concurrently.
Term Typically Offered: Fall only

Circuit design, mask design, and simulation of integrated circuitry. Use of CAD software to prepare design for fabrication. Individual and group design projects. Laboratory three hours.

EEE 117.  Network Analysis.  3 Units
Prerequisite(s): ENGR 17, MATH 45, and PHYS 11C
Corequisite(s): EEE 117L.
Term Typically Offered: Fall, Spring

Review of sinusoidal steady state, phasors, complex power, three phase power, mutual inductance, series and parallel resonance. Introduction to application of Laplace transforms in network analysis, transfer functions, Bode plots, Fourier series, two-port circuits.

EEE 117L.  Networks Analysis Laboratory.  1 Unit
Corequisite(s): EEE 117.
Term Typically Offered: Fall, Spring

Introduces fundamental laboratory techniques while demonstrating the concepts introduced in the EEE 117 lecture. The computer simulation language PSPICE is introduced and applied. Laboratory three hours.

EEE 120.  Electronic Instrumentation.  4 Units
Prerequisite(s): EEE 108, EEE 117; EEE 108 may be taken concurrently.
Term Typically Offered: Fall, Spring

Fundamental principles of sensors and instrumentation systems, together with their electrical implementation, such as biasing and signal conditioning circuits. Temperature, force, pressure, and mechanical sensors. Optical sensors, including a brief introduction to light sources and detectors. Applications to biomedical engineering and industrial control. Lecture three hours; laboratory three hours.

EEE 122.  Applied Digital Signal Processing.  3 Units
Prerequisite(s): EEE 117, EEE 180.
Term Typically Offered: Fall only

Application of digital signal processing to biomedical signals. Origin and characteristics of biomedical signals and contaminations. Preparation of biomedical signals for processing, including sensors, amplification, filtering, sampling, and quantization. Time-domain processing, including peak and zero-crossing detection, time interval measurement, peak height, and moving average estimates of mean and root mean square value. Frequency domain processing, including filtering to separate biomedical signal components and spectrum estimation. Joint time-frequency analysis.

EEE 130.  Electromechanical Conversion.  3 Units
Prerequisite(s): EEE 117 and EEE 161
Term Typically Offered: Fall, Spring

Magnetic circuits and principles of electromechanical energy conversion, Transformers, Rotating Magnetic Fields, Asynchronous AC machines, Synchronous AC machines, DC machines, Introduction to special machines, Introduction to power electronic drives.

EEE 131.  Electromechanics Laboratory.  1 Unit
Prerequisite(s): EEE 117, EEE 130 (EEE 130 may be taken concurrently), and 1)GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Direct current motor and generator characteristics, three phase synchronous motor and synchronous generator characteristics, single phase power transformer short circuit and no-load tests, frequency changer tests and tests on DC and AC machine models, potential and current transformers.

EEE 135.  Renewable Electrical Energy Sources and Grid Integration.  3 Units
Prerequisite(s): EEE 141 or EEE 130.
Term Typically Offered: Spring only

The study of existing sources of renewable electric energy such as wind, solar, geothermal, hydro, tidal, wave power, and biomass. Emphasis on wind and solar energy sources and their integration into the electric power grid. Various energy storage methods to accommodate the intermittent nature of these resources. Economic constraints, environmental benefits and institutional regulations.
EEE 136. Smart Electric Power Grid. 3 Units
Prerequisite(s): EEE 141
Term Typically Offered: Spring only


EEE 137. Applications of Power Electronics in Power Systems. 3 Units
Prerequisite(s): EEE 141
Term Typically Offered: Spring only

Analysis methods for power electronics. Power electronic devices and their control methodologies. Electric machinery drives and flexible alternating current transmission systems (FACTS) devices simulation of cases relevant to applications of power electronics in power systems.

EEE 141. Power System Analysis I. 3 Units
Prerequisite(s): EEE 117
Term Typically Offered: Fall, Spring

Introduction to modern electric power systems, fundamentals of AC and DC systems, power definitions, per-unit analysis, steady-state analysis of power systems, models of power system components such as transformers, generators, motors, power electronic converters and loads.

EEE 142. Power System Analysis II. 3 Units
Prerequisite(s): EEE 141, EEE 161, and EEE 184 (EEE 184 may be taken concurrently)
Term Typically Offered: Fall, Spring

Transmission line parameters and modeling, power flow analysis, analysis of power systems under faulted conditions, introduction to economic operation of power systems, introduction to power system stability and control.

EEE 143. Power System Laboratory. 1 Unit
Prerequisite(s): EEE 142 (EEE 142 maybe taken concurrently), received WPJ score
Term Typically Offered: Fall, Spring

Simulation and measurements on single-phase and three phase circuits, power generation, paralleling, and integration of multiple generation systems, transmission line operations including voltage regulation and line compensation.

EEE 144. Electric Power Distribution. 3 Units
Prerequisite(s): EEE 141
Term Typically Offered: Fall only

Operation and design of utility and industrial distribution systems including distribution system planning; load characteristics; application of distribution transformers; design of subtransmission lines, distribution substations, primary systems, secondary systems; application of capacitors; voltage regulation and reliability.

EEE 145. Power System Relay Protection and Laboratory. 4 Units
Prerequisite(s): EEE 141
Term Typically Offered: Fall only

Principles of protective relaying (classical and modern), current and voltage transformers, setting and testing or relaying elements, including differential, impedance, over/under current, voltage, and frequency relay types and/or elements, and their applications in protection of power system elements, including lines, generators, transformers, motors, and buses. Lecture 3 hours; laboratory 3 hours.

EEE 146. Power Electronics. 3 Units
Prerequisite(s): EEE 108.
Term Typically Offered: Fall, Spring

Introduction to solid state device applications in power control. Modeling and review of thyristors, controlled rectifiers, DC-DC converters, and DC to AC inverters. Brief introduction to control of DC drives. Strong design emphasis. Control of power electronics systems. UPS systems, power supplies.

EEE 147. Power System Operation and Control Laboratory. 1 Unit
Prerequisite(s): EEE 142.
Term Typically Offered: Fall, Spring

Computer simulation methods to describe power system behavior under steady state and dynamic conditions. Experiments conducted using MATLAB and Simulink for load flow in distribution lines, optimal power dispatch, synchronous machine transient behavior under short circuit conditions, transient stability, voltage and reactive power control, classical and modern load frequency control. Laboratory three hours.

EEE 148. Power Electronics Laboratory. 1 Unit
Prerequisite(s): EEE 146; may be taken concurrently.
Term Typically Offered: Fall, Spring


EEE 161. Applied Electromagnetics. 4 Units
Prerequisite(s): MATH 32, MATH 45, PHYS 11C, and ENGR 17.
Term Typically Offered: Fall, Spring

EEE 162. Applied Wave Propagation. 3 Units
Prerequisite(s): EEE 117, EEE 161.
Term Typically Offered: Fall, Spring

Review of distributed circuit theory and the Smith chart. Impedance
matching using series or shunt lumped and distributed circuits or near-
quarterwave-matching sections. Noise temperature and noise figure.
Scattering coefficient characterization of two-ports. Stability circles for
high frequency transistors. Constant gain and noise figure circles. Basic
antenna theory. Illustrated by their use for cell phones and other wireless
systems.

EEE 163. Traveling Waves Laboratory. 1 Unit
Prerequisite(s): EEE 117, EEE 162 (EEE 162 may be taken concurrently),
and (WPJ score of 70+, or at least a C- in ENGL 109M/W)
Term Typically Offered: Fall, Spring

Selected experiments in the transmission and reflection of waves
in coaxial lines and waveguides. Antenna impedance and pattern
measurements. Laboratory three hours.

EEE 165. Introduction To Optical Engineering. 3 Units
Prerequisite(s): EEE 161, EEE 180, EEE 185; EEE 185 may be taken
concurrently.
Term Typically Offered: Fall, Spring

Generation, propagation and detection of light. Fresnel equations, Snells
law, diffraction, polarization and interference. Operating principles of
LEDs, lasers, photodiodes and optical fibers. Introduction to optical
communications systems, integrated optical devices, and optical
instrumentation.

EEE 166. Physical Electronics. 3 Units
Prerequisite(s): EEE 108 and CHEM 1E or CHEM 1A
Term Typically Offered: Spring only

Semiconductor physics, atomic models and crystal structures. Quantum
theory, energy bands, motion of charge carriers, minority/majority carrier
profiles and pn junctions. Manufacturing processes for and operating
characteristics of diodes, bipolar transistors and field effect devices.

EEE 167. Electro-Optical Engineering Lab. 1 Unit
Prerequisite(s): EEE 161, EEE 180, EEE 165; EEE 165 may be taken
concurrently, and (WPJ score of 70+, or at least a C- in ENGL 109M/W)
Term Typically Offered: Fall, Spring

Provides senior level undergraduates with hands-on experience in optical
engineering and design. Experiments involving laser characteristics,
spectral radiometry, diffraction, polarization, modulation of light,
holography and spatial filtering will be performed. Laboratory three hours.

EEE 174. Introduction to Microprocessors. 4 Units
Prerequisite(s): Junior status, EEE 64.
Term Typically Offered: Fall, Spring, Summer

Topics include: microcomputer systems, microprocessor architecture,
machine and assembly language programming, timing operations, bus
arbitration and exception processing logic, addressing modes, parallel
and serial ports, memory, assemblers and development systems. The
lab uses development systems and target systems in the Computer
Engineering laboratory to assemble, link, test and debug and run various
assignments. Lecture three hours; laboratory three hours.

EEE 178. Introduction to Machine Vision. 3 Units
Prerequisite(s): EEE 180 or ME 172, or instructor approval.
Term Typically Offered: Spring only

Fundamental digital image processing and machine vision concepts and
their application to the fields of robotics and automation. Topics include:
digital image processing, image formation, two dimensional transforms,
boundary descriptors, motion, camera calibration, vision for robot control,
3-D vision, and hardware architectures to support vision.

EEE 180. Signals & Systems. 3 Units
Prerequisite(s): ENGR 17, MATH 45, EEE 117; EEE 117 may be taken
concurrently.
Term Typically Offered: Fall, Spring

Rigorous development of the fundamental relationships governing time-
domain and frequency-domain analysis of linear continuous-time and
discrete-time systems. Topics include Fourier, Laplace and z-transforms,
sampling theorem, modulation, system stability, and digital filters.

EEE 181. Introduction to Digital Signal Processing. 3 Units
Prerequisite(s): EEE 64, EEE 180
Term Typically Offered: Spring only

Focuses on the application of linear systems theory to design and
analysis of digital signal processing systems. Discrete systems, the
z transform, and discrete Fourier transform are reviewed. Design of
infinite impulse response filters, finite impulse response filters, and digital
spectral analysis systems is presented. Computer simulation is used to
study the performance of filters and spectral analysis systems. Signal
processing architectures are introduced.

EEE 182. Digital Signal Processing Lab. 1 Unit
Prerequisite(s): EEE 180, EEE 181; EEE 181 may be taken concurrently.
Term Typically Offered: Spring only

Provides senior level undergraduate students with experience in the
software/hardware design of discrete-time systems, and modern DSP
techniques. Laboratory projects will include the following: spectral
analysis of analog and digital signals, design of sampling and quantizer
circuits, design and realization of IIR and FIR Digital Filters. Hardware
projects will include acquisition, analysis, and filtering of speech,
biomedical and video signals using Digital Signal Processors (DSPs).

EEE 183. Digital and Wireless Communication System Design. 3 Units
Prerequisite(s): EEE 161, EEE 180; EEE 185 may be taken concurrently.
Term Typically Offered: Fall only

Provides senior level undergraduates with experience in the software/hardware design of digital signal processing systems. Discrete systems, the
z transform, and discrete Fourier transform are reviewed. Design of
infinite impulse response filters, finite impulse response filters, and digital
spectral analysis systems is presented. Computer simulation is used to
study the performance of filters and spectral analysis systems. Signal
processing architectures are introduced.
Dynamic system modeling by transfer function and state-space methods using differential equation, time-response and frequency-response methods. Determination of steady-state errors due to step, ramp and parabolic inputs and disturbances for closed-loop systems. Mapping of block diagrams and state-space representations to signal flow graphs (SFG) as well as finding the transfer function of the system represented by the SFG by Mason's Rule. Closed-loop system stability is examined via poles and eigenvalues and by using the Routh-Hurwitz criterion. Introduction to observability and controllability of systems. Design of compensators for feedback systems using root-locus, frequency response and state-space methods. Introduction to digital control. Computer simulation methods such as MATLAB and SIMULINK are used to support the above subjects.

EEE 185. Modern Communication Systems. 3 Units
Prerequisite(s): EEE 180, ENGR 120; ENGR 120 may be taken concurrently.
Term Typically Offered: Fall, Spring
Review of signal and system analysis, sampling theorem and Nyquist’s criteria for pulse shaping, signal distortion over a channel, study of digital and analog communication systems, line coding, signal to noise ratios, performance comparison of various communication systems.

EEE 186. Communication Systems Laboratory. 1 Unit
Prerequisite(s): EEE 117 (EEE 185 may be taken concurrently), and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring
Experimental study of modulation and demodulation in AM, FM, and digital communication systems, A/D and D/A conversion, measurement of power spectra, noise characterization in frequency domain.

EEE 187. Robotics. 4 Units
Prerequisite(s): EEE 180 or equivalent, or instructor permission.
Term Typically Offered: Fall only
Lecture introduces principles of robotics and design of robot systems. Includes robot architectures, sensing position/velocity, digital circuit noise, actuator and path control, robot coordinate systems, kinematics, differential motion, computer vision/architectures, and artificial intelligence. Laboratory will apply lecture theory in design experiments utilizing five degree-of-freedom robots, an industrial robot, and vision systems.

EEE 188. Digital Control System. 3 Units
Prerequisite(s): EEE 180, WPJ score of 70+, or at least a C- in ENGL 109M/W.
Term Typically Offered: Spring only

EEE 189. Controls Laboratory. 1 Unit
Prerequisite(s): EEE 184 (EEE 184 may be taken concurrently), and (WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Spring only
Study, simulation and design of linear feedback control systems using digital control methods such as MATLAB and SIMULINK. Practical examples of analysis and compensation for closed loop systems.

EEE 190. Controls. 3 Units
Prerequisite(s): EEE 192A (EEE 192A may be taken concurrently), GE Area A and (WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring
Concentrates on design projects begun by the previous semester design teams in EEE 192A. The hardware will be completed, tested for the meeting of specifications and other requirements, and redesigned if necessary. Required software will be written, debugged and incorporated in a written report. The final results of the team project will be presented orally to the class and invited faculty in a publicized seminar. Lecture one hour; laboratory three hours.
EEE 194. Career Development in Electrical and Electronic Engineering. 1 Unit
Prerequisite(s): EEE 192A or EEE 193A, may be taken concurrently.
Term Typically Offered: Fall, Spring
Designed for Electrical and Electronic Engineering students making career decisions. Instruction will include effective career planning strategies and techniques including skill assessments, employment search strategy, goal setting, time management, interview techniques and resume writing. Lecture one hour.
Note: Units earned cannot be used to satisfy major requirements.
Credit/No Credit

EEE 195. Fieldwork in Electrical and Electronic Engineering. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised work experience in Electrical and Electronic Engineering with public agencies or firms in the industry. Requires approval of a petition by the supervising faculty member and Department Chair.
Note: May be repeated for credit.
Credit/No Credit

EEE 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Note: Units earned cannot be used to satisfy major requirements.
Credit/No Credit

EEE 195B. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Note: Units earned cannot be used to satisfy major requirements.
Credit/No Credit

EEE 195C. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Note: Units earned cannot be used to satisfy major requirements.
Credit/No Credit

EEE 195D. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Note: Units earned cannot be used to satisfy major requirements.
Credit/No Credit

EEE 196A. PCB Design Fundamentals. 1 Unit
Prerequisite(s): EEE 102, CPE 102 or EEE 108.
Term Typically Offered: Fall, Spring
Printed circuit board (PCB) design fundamentals including library component creation, schematic capture, layout, routing, signal integrity and transmission line analysis, IEEE/IPC rules and standards, materials, manufacturing processes, and other physical properties of a PCB.

EEE 199. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Individual projects or directed reading.
Note: Open only to students who appear qualified for independent work. Approval of the faculty sponsor and the academic advisor must be obtained before registering. May be repeated for credit.

EEE 201. Research Methodology. 2 Units
Prerequisite(s): Graduate standing or instructor permission
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Immersion in the discourse of Electrical and Electronic Engineering: genres, literacies, stylistic conventions, research methodology. Collective and individual study of selected issues and problems relating to fields of study in Electrical and Electronic Engineering. Orientation to the requirements for the master’s degree culminating experience.
Note: Must be taken in the first semester of the graduate program.
Credit/No Credit

EEE 211. Microwave Engineering. 3 Units
Prerequisite(s): EEE 161; EEE 108 or instructor permission.
Term Typically Offered: Fall, Spring
High-frequency passive electronic circuit design, specifically S-parameters, impedance matching, microstrip lines, filters, couplers and antennas.

EEE 212. Modern Antenna Design. 3 Units
Prerequisite(s): EEE 161.
Term Typically Offered: Fall, Spring
EEE 213. Microwave Devices and Circuits.  3 Units
Prerequisite(s): EEE 162.
Term Typically Offered: Fall, Spring

Theory and application of electromagnetic radiation at microwave frequencies; study of microwave impedance and power measurement and characteristics of microwave circuit components, and electronic devices.

EEE 214. Computer Aided Design for Microwave Circuits.  3 Units
Prerequisite(s): EEE 211 or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to design methodology of the basic building blocks of communication systems. Use of solid state devices in communications and microwave technology. Implementation of transmitter and receiver architectures. Impedance matching, S-parameters and small-signal, large-signal device operation. Design of transmitter and receiver components using a professional software tool. Design and simulations of gain and low noise amplifiers, detectors, mixers, power amplifiers and oscillators. Tradeoffs involved in the design of a complete transmitter and a receiver.

EEE 215. Lasers.  3 Units
Prerequisite(s): EEE 180 and EEE 161 or instructor permission.
Term Typically Offered: Fall, Spring

Review of electromagnetic theory. Ray tracing in an optical system, Gaussian beam propagation. Resonant optical cavities, study of excitation and lasing mechanisms in gas and semiconductor lasers. General characteristics and design of CW, Q switched and traveling wave lasers.

EEE 221. Machine Vision.  3 Units
Term Typically Offered: Spring only

Introduces the student to fundamental digital imaging processing concepts and their application to the fields of robotics, automation, and signal processing. Topics include: digital image filters, two dimensional transforms, boundary descriptors, Hough transform, automated visual inspection techniques, vision for robot control, 3-D vision, and hardware architectures to support vision.

EEE 222. Electronic Neural Networks.  3 Units
Term Typically Offered: Spring only – even years

Current neural network architectures and electronic implementation of neural networks are presented. Basics of fuzzy logic is covered. Application software will be used to simulate training. Testing of various neural net architectures. Learning strategies such as back-propagation, Kohonen, Hopfield and Hamming algorithms will be explored. A final project requires the student to design, train and test a neural network for electronic implementation that solves a specific practical problem.

EEE 225. Advanced Robot Control.  3 Units
Prerequisite(s): EEE 184 or equivalent.
Term Typically Offered: Fall only

Introduction to robot kinematics and dynamics followed by a comprehensive treatment of robot control. Topics include: independent joint control, multivariable control, force control, feedback linearization, real-time parameter estimation, and model-reference adaptive control.

EEE 230. Analog and Mixed Signal Integrated Circuit Design.  3 Units
Prerequisite(s): EEE 109 or instructor permission.
Term Typically Offered: Fall, Spring

Covers core topics and circuits important for analog and mixed-signal integrated circuits. Topics include: device structures and models, single-stage and differential amplifiers, current mirrors and active loads, operational amplifier design, stability and compensation, fully-differential circuits and common-mode feedback, noise in integrated circuits and the impact of IC processes on analog performance.

EEE 231. Advanced Analog and Mixed Signal Integrated Circuit Design.  3 Units
Prerequisite(s): EEE 230 or consent of the instructor.
Term Typically Offered: Fall only

A companion course to EEE 230, covers additional topics important in analog and mixed-signal integrated circuit design. Topics include traditional issues such as device matching and analog layout techniques, as well as important building blocks such as bandgap references and bias circuits. Also included are current-mode techniques such as high-speed current-mode logic (CML), and an introduction to noise in integrated circuits. Circuit and layout projects are assigned using CAD software.

EEE 232. Key Mixed-Signal Integrated Circuit Building Blocks.  3 Units
Prerequisite(s): EEE 230 or consent of instructor.
Term Typically Offered: Spring only

Covers key mixed-signal integrated circuit building blocks most often used in modern ICs. Topics covered include data converter fundamentals, comparators, and important circuit architectures for Analog-to-Digital Converters (ADCs), Digital-to-Analog Converters (DACs), and Phase-Locked Loops (PLLs).

EEE 234. Digital Integrated Circuit Design.  3 Units
Prerequisite(s): EEE 230 or instructor permission.
Term Typically Offered: Fall, Spring

The background and techniques needed to design and layout digital circuits at the transistor level for mixed-signal integrated circuits are covered. Topics include the design, layout and characterization of digital logic gates at the transistor level, typical CMOS process flows, device models and physics, and chip level considerations.

EEE 235. Mixed-Signal IC Design Laboratory.  1 Unit
Prerequisite(s): EEE 230 or consent of the instructor.
Term Typically Offered: Fall only

Methods to develop successful mixed-signal integrated circuits using an industrial design methodology and computer-aided design tools. Proven design techniques presented; hands-on experience gained through each student designing their own integrated circuit. Communications skills developed through periodic presentations, including reviews for the circuit architecture, design and layout.

EEE 236. Advanced Semiconductor Devices.  3 Units
Term Typically Offered: Spring only

Semiconductor device modeling, including the application of the continuity equation and Poissons equation to abrupt and graded p/n junctions, semiconductor/metal contacts, junction field effect transistors (JFET), metal-oxide-semiconductor transistors (MOSFET), and bipolar junction transistors (BJT). Special topics include compound semiconductor devices and heterostructures.
EEE 238. Advanced VLSI Design-For-Test I.  
**Prerequisite(s):** CPE 151 and CPE 166.  
**Term Typically Offered:** Fall only  
Focus on integrated circuit design-for-test-techniques; semiconductor reliability factors and screening; semiconductor fabrication processes, device physics and related performance limitations; quantifying cost/quality tradeoffs; IC manufacturing flows and high-accuracy parametric test methods.

EEE 239. Advanced VLSI Design-For-Test II.  
**Prerequisite(s):** EEE 238.  
**Term Typically Offered:** Fall, Spring  
Advanced topics in VLSI testing and Design-For-Test applications. Memory-specific test methodology and special features of memory designs employed in high volume manufacturing for improved testability, yield, and reliability. VLSI failure modes, their detection and prevention. Application of trim, redundancy, wear leveling, and error correction.

EEE 241. Linear Systems Analysis.  
**Prerequisite(s):** EEE 180 or equivalent.  
**Term Typically Offered:** Spring only – odd years  
Analyzes linear systems in the state-space. System realization and modeling, solutions of linear systems, stability including the method of Lyapunov, controllability and observability, state feedback and observers for both continuous and discrete-time systems. Familiarity with MATLAB is required.

**Prerequisite(s):** ENGR 120, EEE 180  
**Term Typically Offered:** Fall, Spring  
Introduces the student to modern statistical approaches for solving electronic system noise problems. A few of the topics covered are: Stochastic processes, Wiener and Kalman filters, linear prediction, lattice predictors and singular-value decomposition.  
**Note:** The knowledge of ENGR 120 and EEE 180 or equivalent courses is recommended to take this course.

**Prerequisite(s):** ENGR 120.  
**Term Typically Offered:** Fall, Spring  
Introduction to sequence of random variables and multivariable distributions; models of stochastic processes; stationary stochastic processes and their applications; Markov processes, Markov chains, continuous Markov chains; renewal processes; birth-death processes; time-series applications in stochastic processes in filtering, reliability and forecasting, prediction and control.

EEE 244. Electrical Engineering Computational Methods and Applications.  
**Prerequisite(s):** EEE 180.  
**Term Typically Offered:** Fall, Spring  
Computational methods for solving problems in engineering analysis. Topics include variational methods, finite-difference analysis, optimization methods, and matrix methods. Focuses predominantly on applications of the methods, and students are required to solve real-world, engineering problems on the computer.

**Prerequisite(s):** ENGR 60, ENGR 120, EEE 181; or instructor permission  
**Term Typically Offered:** Fall only  
Advanced signal processing topics include: multirate signal processing, adaptive filter design and analysis, spatial filtering and the application of FIR filter theory to beamforming. Applications of digital signal processing in communication systems, radar systems, and imaging systems are covered.

EEE 246. Advanced Digital Control.  
**Prerequisite(s):** EEE 241.  
**Term Typically Offered:** Spring only – even years  

EEE 249. Advanced Topics in Control and Systems.  
**Prerequisite(s):** EEE 142 or equivalent.  
**Term Typically Offered:** Spring only – even years  
Topics from recent advances in control, systems and robotics control selected from IEEE Journals and related professional publications. May be taken twice for credit.

**Prerequisite(s):** EEE 142 or equivalent.  
**Term Typically Offered:** Spring only  
Characteristics of modern power transmission systems, Transmission line parameters, Steady-state, Dynamic and Transient behavior of AC/DC transmission systems, Flexible AC Transmission Systems (FACTS), High-Voltage Direct Current (HVDC) systems, Analysis of faulted transmission systems and AC/DC hybrid grids.

**Prerequisite(s):** EEE 141 or equivalent.  
**Term Typically Offered:** Fall only  
Study of a number of engineering and economic matters involved in planning, operating, and controlling power generation and transmission systems in electric utilities. Effects of hydro and nuclear plants on system economics. Economic and environmental constraints. Theoretical developments and computer methods in determining economic operation of interconnected power systems with emphasis on digital computers.

**Prerequisite(s):** EEE 142 or equivalent.  
**Term Typically Offered:** Spring only  
Power system economics, generation, transmission and distribution reliability. Production costing and generation planning, transmission planning.

**Prerequisite(s):** EEE graduate standing.  
**Term Typically Offered:** Fall only  
The fundamental concepts of control and stability in power systems. Topics include: power systems dynamics and linearized models, small and large disturbances, voltage and frequency stability. Introduction to power systems dynamic simulation for stability studies using CAD tools.
EEE 254. Large Interconnected Power Systems. 3 Units
Prerequisite(s): EEE 142.
Term Typically Offered: Spring only

Computer control, optimization and organization of large power systems. Loan and frequency control, voltage control, large load flow and contingency studies. Introduction to state estimation and load forecasting.

EEE 255. Future Power Systems and Smart Grids. 3 Units
Prerequisite(s): EEE 141, EEE 146, EEE 180, and EEE 250 or instructor permission.
Term Typically Offered: Spring only

Future power systems from component and system perspectives. Smart grids, micro-grids, and interactive power systems using renewable resources and energy storage elements. National standards for certification of distributed generation involving machine-based and inverter-based technologies. Essential elements of advanced sensing, communications and information technology and their roles in adaptive automation, control, protection, and security.

EEE 256. Advanced Power Systems Protection. 3 Units
Prerequisite(s): EEE 141; EEE 145 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced concepts and schemes used in power system protection including the various protective schemes used for transmission lines, transformers, machines, and other elements of a large interconnected power system. Concepts in digital and microprocessor based relay design and analysis of typical protection subsystems, in conjunction with the protection of the power system as a whole.

EEE 257. Wind Energy Electrical Conversion Systems. 3 Units
Prerequisite(s): Fully classified graduate standing in EEE or instructor permission.
Term Typically Offered: Fall only

Fundamentals of current technologies and methods in wind energy conversion systems, including turbines, generators and converters as well as control and integration of these devices in power grids. Topics include: power conversion, grid converters for wind systems, system integration, methods for power, voltage and frequency control, and wind farms simulation and aggregation methods.

EEE 259. Advanced Topics in Power Systems. 3 Units
Prerequisite(s): EEE 142.
Term Typically Offered: Spring only

Topics from recent advances in Electrical Power Engineering selected from IEEE Journal on "Power Systems" and "Power Systems Delivery." May be taken twice for credit.

EEE 260. Digital Communications. 3 Units
Prerequisite(s): EEE 185, or instructor permission.
Term Typically Offered: Fall only

This course introduces the fundamental principles and design of digital communication systems. Main topics to be covered include representation of digitally modulated signals, signal spectral characteristics, optimum demodulation and detection methods in AWGN channels, and evaluation of the error-rate performance in AWGN channels.

EEE 261. Information Theory, Coding, and Detection. 3 Units
Prerequisite(s): ENGR 120 and EEE 185; or instructor permission.
Term Typically Offered: Spring only


EEE 262. Wireless Communications Systems. 3 Units
Prerequisite(s): EEE 185 or instructor permission.
Term Typically Offered: Fall only

Wireless communication techniques, systems and standards. Topics include cellular systems, RF transmission and analog/digital modulation techniques. Modern techniques such as multiple access and spread spectrum systems. Channel coding and diversity will also be included.

EEE 264. Advanced Topics in Wireless Communications. 3 Units
Prerequisite(s): EEE 262 or instructor permission.
Term Typically Offered: Fall only

Advanced theoretical and practical aspects of modern wireless communications. Specific topics include: advanced cellular concepts, modern small-scale and large-scale propagation models, complex equalization and diversity system design, 3G (third generation) wireless networks, Bluetooth and Personal Area Networks (PANs), GPRS (General Packet Radio Service) and wireless measurement techniques.

EEE 265. Optoelectronic Engineering. 4 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Generation, propagation and detection of light. Fresnel equations, Snell's law, diffraction, polarization, and interference. Operating principles of LEDs, lasers, photodiodes, optical fibers, photovoltaic devices. Introduction to optical communications systems and optical instrumentation.

Note: EEE 265 and EEE 165 may not be both taken for graduate credit.

EEE 266. Modern Digital Communication Systems. 3 Units
Prerequisite(s): EEE 260 or instructor permission.
Term Typically Offered: Spring only

This course introduces the fundamentals of digital communications over band-limited channels. Topics covered include inter-symbol interference, performance analysis of digital transmission schemes over fading channels, and diversity techniques. Other topics include overview of MIMO communication systems and diversity multiplexing trade-offs in multi-antenna systems.

EEE 267. Fiber Optic Communications. 3 Units
Prerequisite(s): EEE 185 or instructor permission.
Term Typically Offered: Fall, Spring

EEE 268. Telecommunication Networks. 3 Units
Prerequisite(s): EEE 185 or instructor permission.
Term Typically Offered: Spring only

This course discusses the architecture of current and next generation telecommunication networks. Main topics to be covered include introduction to modern telecommunication networks, multi-access channels, media access control, resource allocation, performance analysis of transmission techniques, and ad-hoc wireless networks. Emphasis will be on the datalink and physical layers of the communication network.

EEE 270. Advanced Topics in Logic Design. 4 Units
Prerequisite(s): EEE 274; only one may be counted for credit.

Synchronous and asynchronous state machines. Timing issues in high-speed digital design. Design of a complex system using VHDL and Verilog Hardware Description Languages in a CAD environment. Automation toolsets to synthesize projects containing a hierarchy of modules into Field Programmable Gate Arrays (FPGAs). Simulations using CAD tools to verify the design before implementation on rapid prototyping boards in the lab. Lecture 3 hours; laboratory 3 hours.

EEE 272. High Speed Digital System Design. 3 Units
Prerequisite(s): EEE 161, fully classified graduate standing and instructor permission.
Term Typically Offered: Fall, Spring

Theoretical topics and practical applications relating to high speed digital systems. Review of basic transmission line theory, crosstalk, impact of PCB traces, vias, and connectors on signal integrity, return current paths, simultaneous switching noise, high frequency power delivery, high speed timing budgets, high speed bus design methodologies, radiated emissions, and system noise.

EEE 273. Hierarchical Digital Design Methodology. 3 Units
Prerequisite(s): EEE 64 or equivalent.
Term Typically Offered: Spring only

Hierarchical digital design course that includes: State machine design, Programmable Logic Devices, digital simulation techniques, digital interface, design with ASIC (Application Specific Integrated Circuits), programmable Gate Arrays, and designing with Gas high speed logic devices. Problems with EMI, RFI and EMC will be presented along with design guidelines. Lecture three hours. Cross listed: CSC 273; only one may be counted for credit.

EEE 274. Advanced Timing Analysis. 3 Units
Prerequisite(s): EEE 273, CSC 273, CPE 273 or instructor permission.
Term Typically Offered: Fall, Spring

Timing analysis of Application Specific Integrated Circuit (ASIC) designs: Topics include ASIC design methodology, static timing analysis, timing design constraints, design reports, clock timing issues, timing exceptions, operating conditions, hierarchical analysis, analyzing designs with asynchronous logic, performance measurement and power issues. Cross-listed: CPE 274; only one may be counted for credit.

EEE 280. Advanced Computer Architecture. 3 Units
Prerequisite(s): CSC 205 or instructor permission.
Term Typically Offered: Fall, Spring

Introduces computer classification schemes, structures of uni- and multiprocessor systems, parallelism in uniprocessor systems, design and performance analysis of pipelined and array processors; survey and analysis of interconnection networks and parallel memory organizations; programming issues of multiprocessor systems; and fault tolerant computing and design for testability. Cross Listed: CSC 280; only one may be counted for credit.

EEE 285. Micro-Computer System Design I. 3 Units
Prerequisite(s): EEE 174 or CPE 185.
Term Typically Offered: Fall, Spring

Focuses on: design of the microprocessor based computer system, study of bus structures, interrupt schemes, memory interfacing, timing, bus arbitration, system architecture, data communications, introduction to multiprocessor systems, and software development.

EEE 286. Microcomputer System Design II. 3 Units
Prerequisite(s): EEE 285 or CPE 186.
Term Typically Offered: Fall, Spring

Includes PCI and PCI express bus specifications/architecture, PCI bridges transaction ordering, PCI express transactions and handshake protocols, electromagnetic interference, methods of eliminating interference, shielding grounding, balancing, filtering, isolation, separation, orientation, cancellation techniques and cable design. Involves design projects and research presentations on PCI and PCI Express Bridge.

EEE 296C. Transients in Power Systems. 3 Units
Prerequisite(s): EEE 130 and EEE 141
Term Typically Offered: Fall, Spring

Transients in electric power systems due to shunt capacitor switching, voltage flicker and nonlinear loads such as electric arc furnaces. Lightning surges and their effect on the power system health and operation. Transformer inrush currents and motor starting. The knowledge of EEE 130 and EEE 141 or equivalent courses is required for taking this course.

EEE 296T. Digital Speech Processing. 3 Units
Prerequisite(s): EEE 181 or instructor permission.
Term Typically Offered: Fall, Spring

The objective of this course is to cover the digital processing of speech signals. Topics include speech production and perception, speech processing in the time frequency domains. Short-time energy and Short-time Fourier analysis, homomorphic and linear predictive coding methods. Also covered are speech coding, basic introduction of text-to-speech synthesis and speech recognition.

EEE 299. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Open to qualified students who wish to pursue problems of their own choice. Projects must have approval and supervision of a faculty advisor.
Program Requirements

BS in Electrical and Electronic Engineering

Units required for Major: 92
Total units required for BS: 122

Program Description

The field of Electrical and Electronic Engineering continues to expand in scope, driven by advances in technology and new challenges faced by society. To prepare our graduates for careers in this demanding field, we equip them with a strong background in the fundamental principles of the discipline, and subsequent advanced courses in specific areas. Our curriculum provides practical, hands-on experience through laboratory courses.

The Electrical and Electronic Engineering program provides breadth (core courses), depth (elective sequence), and a culminating design project to apply the knowledge gained through the curriculum. The curriculum allows flexibility by offering a number of elective courses providing our graduates with depth in their respective areas of interest. The electives offered provide depth in one or more of the following areas: Analog/Digital Electronics, Control Systems, Communication Engineering, and Power Engineering. Students select a senior project either in power engineering or in the general area of electronics. Each of these options includes a sequence of two courses for the completion of the project, and has its own pre-requisite requirements.

Note: Students graduating with a BS in Electrical and Electronic Engineering will not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

Minimum Grade Requirement

A grade of "C+" or better is required in all courses applied to an Electrical and Electronic Engineering major.

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EEE 500</td>
<td>Culminating Experience. 5 Units</td>
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<tr>
<td></td>
<td>Prerequisite(s): Advanced to candidacy and approval of the graduate coordinator.</td>
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<td>Term Typically Offered: Fall, Spring</td>
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</table>

Completion of a thesis, project or comprehensive examination. Credit given upon successful completion of one of the following plans: Plan A: Master’s Thesis, 5 units; Plan B: Master’s Project, 2 units; or Plan C: Comprehensive Examination, 0 units.

**BS in Electrical and Electronic Engineering**

Units required for Major: 92
Total units required for BS: 122

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>EEE/CPE 64</td>
<td>Introduction to Logic Design 1,2</td>
<td>4</td>
</tr>
<tr>
<td>MATH 32</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism 1</td>
<td>4</td>
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**Second Semester Sophomore Year**

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<tr>
<th>Package</th>
<th>Codes</th>
<th>Units</th>
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<tbody>
<tr>
<td>ENGR 17</td>
<td>Introductory Circuit Analysis 2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 45</td>
<td>Differential Equations for Science and Engineering</td>
<td>3</td>
</tr>
</tbody>
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**REQUIRED UPPER DIVISION COURSES (33 Units)**

**First Semester Junior Year**

<table>
<thead>
<tr>
<th>Package</th>
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<tbody>
<tr>
<td>EEE 117</td>
<td>Network Analysis</td>
<td>4</td>
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<tr>
<td>&amp; 117L</td>
<td>Networks Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EEE 161</td>
<td>Applied Electromagnetics</td>
<td>4</td>
</tr>
<tr>
<td>EEE 180</td>
<td>Signals &amp; Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 140</td>
<td>Engineering Economics 1</td>
<td>2</td>
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**Second Semester Junior Year**

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<tr>
<th>Package</th>
<th>Codes</th>
<th>Units</th>
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<tbody>
<tr>
<td>EEE 108</td>
<td>Electronics I</td>
<td>4</td>
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<tr>
<td>&amp; 108L</td>
<td>Electronics I Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EEE 141</td>
<td>Power System Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>EEE 174</td>
<td>Introduction to Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>EEE 184</td>
<td>Introduction to Feedback Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 120</td>
<td>Probability and Random Signals</td>
<td>3</td>
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**First Semester Senior Year**

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<tr>
<th>Package</th>
<th>Codes</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>EEE 185</td>
<td>Modern Communication Systems</td>
<td>3</td>
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</table>

**REQUIRED DESIGN PROJECT SERIES**

Select one of the following two series:

**POWER DESIGN PROJECT SERIES (8 Units)**

<table>
<thead>
<tr>
<th>Package</th>
<th>Codes</th>
<th>Units</th>
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<tbody>
<tr>
<td>EEE 142</td>
<td>Power System Analysis II</td>
<td>4</td>
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<tr>
<td>&amp; EEE 143</td>
<td>Power System Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EEE 192A</td>
<td>Electrical Power Design Project I 1</td>
<td>2</td>
</tr>
<tr>
<td>EEE 192B</td>
<td>Electrical Power Design Project II 1</td>
<td>2</td>
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**OR**

**PRODUCT DESIGN PROJECT SERIES (8 Units)**

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<thead>
<tr>
<th>Package</th>
<th>Codes</th>
<th>Units</th>
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<tbody>
<tr>
<td>EEE 109</td>
<td>Electronics II</td>
<td>4</td>
</tr>
<tr>
<td>EEE 193A</td>
<td>Product Design Project I 1</td>
<td>2</td>
</tr>
<tr>
<td>EEE 193B</td>
<td>Product Design Project II 1</td>
<td>2</td>
</tr>
</tbody>
</table>

**ADDITIONAL ELECTIVE REQUIREMENTS FOR BOTH POWER/PRODUCT DESIGN PROJECT SERIES**

Select 6 units of lecture and 1 unit of laboratory from one of the four areas listed below.

Select 6 additional units from any of the four areas listed below.

TOTAL UNITS: 92

---

1. Course also satisfies General Education (GE)/Graduation Requirement. The designation "General Education course" denotes a course which meets GE requirements other than those which also serve as prerequisites to courses in the major. Students are expected to satisfy the University’s GE requirements. Consult the Department Chair for specific GE requirements. Students should take ENGL 5 as early as possible since it is required for admission to the upper division.

2. CPE 64W, EEE 64W or ENGR 17W may be available to augment understanding of material; however, these courses cannot be used to satisfy graduation requirements.
It is imperative that students take the University’s Writing Placement for Juniors (WPJ) during the first semester of the junior year, as it is a prerequisite to some laboratory courses after EEE 117L.

**Depth Requirement Areas and List of Electives**

**Depth Area Requirement for both Power Design and Product Design Series:**

- Select 6 units of lecture and 1 unit of laboratory from one of the four areas below.
- Select 6 additional units from any of the four areas listed below.

<table>
<thead>
<tr>
<th>Code/Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPE/CSC 138</td>
<td>Computer Networking Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CPE 151</td>
<td>CMOS and Digital VLSI Design</td>
<td>3</td>
</tr>
<tr>
<td>CPE 153</td>
<td>VLSI Design</td>
<td>3</td>
</tr>
<tr>
<td>CPE 166</td>
<td>Advanced Logic Design</td>
<td>4</td>
</tr>
<tr>
<td>CPE 186</td>
<td>Computer Hardware System Design</td>
<td>3</td>
</tr>
<tr>
<td>CPE 187</td>
<td>Embedded Systems Design</td>
<td>3</td>
</tr>
<tr>
<td>EEE 109</td>
<td>Electronics II</td>
<td>4</td>
</tr>
<tr>
<td>EEE 110</td>
<td>Advanced Analog Integrated Circuits</td>
<td>3</td>
</tr>
<tr>
<td>EEE 111</td>
<td>Advanced Analog Integrated Circuits Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EEE 120</td>
<td>Electronic Instrumentation</td>
<td>4</td>
</tr>
<tr>
<td>EEE 166</td>
<td>Physical Electronics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Control Systems (11 Units)**

<table>
<thead>
<tr>
<th>Code/Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEE 178</td>
<td>Introduction to Machine Vision</td>
<td>3</td>
</tr>
<tr>
<td>EEE 187</td>
<td>Robotics</td>
<td>4</td>
</tr>
<tr>
<td>EEE 188</td>
<td>Digital Control System</td>
<td>3</td>
</tr>
<tr>
<td>EEE 189</td>
<td>Controls Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

**Communication Engineering (19 Units)**

<table>
<thead>
<tr>
<th>Code/Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEE 122</td>
<td>Applied Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>EEE 162</td>
<td>Applied Wave Propagation</td>
<td>3</td>
</tr>
<tr>
<td>EEE 163</td>
<td>Traveling Waves Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EEE 165</td>
<td>Introduction To Optical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EEE 167</td>
<td>Electro-Optical Engineering Lab</td>
<td>1</td>
</tr>
<tr>
<td>EEE 181</td>
<td>Introduction to Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>EEE 182</td>
<td>Digital Signal Processing Lab</td>
<td>1</td>
</tr>
<tr>
<td>EEE 183</td>
<td>Digital and Wireless Communication System Design</td>
<td>3</td>
</tr>
<tr>
<td>EEE 186</td>
<td>Communication Systems Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

**Power Engineering (39 Units)**

<table>
<thead>
<tr>
<th>Code/Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEE 147</td>
<td>Power System Operation and Control Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EEE 148</td>
<td>Power Electronics Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

1. You may not use a course to count for both a required course and an elective course.

**Note:**

- Other upper division courses in Engineering and Computer Science may be selected as elective lectures with prior approval of the student’s advisor.
- Other upper division and graduate courses in Engineering and Computer Science may be selected as elective lectures with prior approval of the student’s advisor. Graduate courses counted towards a BS degree may not be used for a MS degree.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code/Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking (Exempt)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1 - Physical Science - Met by major courses.</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab - Met by major courses.</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts - Met by major courses.</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B5 - Additional Course - Met by upper-division major courses.</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1 - Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 Area C Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Any Upper-Division Area C Course - Take upper-division course to complete Area &amp; upper-division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D: The Individual and Society (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course - Met by upper-division major courses.</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Area E: Understanding Personal Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area E Course - Met by major courses.</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Area F: Ethnic Studies (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area F Course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units** 30

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
Certificate in Electric Power Systems and Engineering

Program Description
The certificate in Electric Power Systems and Engineering will recognize the commitment and accomplishments of students studying in this area, and provide potential employers with evidence of the skills students have developed. Students studying in this area will become knowledgeable and proficient in the different skills this demanding field requires. This requires studying multiple subjects such as power system analysis, electric power distribution, relay protection, and smart grids. In addition, students will learn the methods and tools used to analyze and design power systems.

Admission Requirements
Must be enrolled as an Electrical and Electronic Engineering major

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required courses (11 Units)</td>
<td></td>
</tr>
<tr>
<td>EEE 141</td>
<td>Power System Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>EEE 142</td>
<td>Power System Analysis II</td>
<td>3</td>
</tr>
<tr>
<td>EEE 143</td>
<td>Power System Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EEE 192A</td>
<td>Electrical Power Design Project I</td>
<td>2</td>
</tr>
<tr>
<td>EEE 192B</td>
<td>Electrical Power Design Project II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Required Elective Courses (7 UNITS)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Option 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two 3 unit elective lecture courses in the power area</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One 1-unit elective lab course in the power area</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Option 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One 3-unit elective lecture course in the power area</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One 4-unit elective lecture+lab course in the power area</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>18</td>
</tr>
</tbody>
</table>

Note: All such Power Engineering elective courses are listed in the BS EEE catalog located in https://catalog.csus.edu/colleges/engineering-electrical-electronic-bs-in-electrical-and-electronic-engineering/

Certificate in Mixed-Signal Integrated Circuit Design

Units required for Certificate: 16

Program Description
The certificate in mixed-signal integrated circuit design will recognize the commitment and accomplishments of graduate students studying in this area, and provide potential employers with evidence of the skills students have developed. Graduate students studying mixed-signal integrated circuit (IC) design will become knowledgeable and proficient in the different skills this demanding field requires. This requires studying multiple subjects such as amplifier design, device physics and matching, analog layout techniques, and key mixed-signal building blocks. In addition, students will learn the methods and tools used to design and layout ICs.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEE 230</td>
<td>Analog and Mixed Signal Integrated Circuit Design</td>
<td>3</td>
</tr>
<tr>
<td>EEE 231</td>
<td>Advanced Analog and Mixed Signal Integrated Circuit Design</td>
<td>3</td>
</tr>
<tr>
<td>EEE 232</td>
<td>Key Mixed-Signal Integrated Circuit Building Blocks</td>
<td>3</td>
</tr>
<tr>
<td>EEE 235</td>
<td>Mixed-Signal IC Design Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EEE 236</td>
<td>Advanced Semiconductor Devices</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Required Electives (3 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>EEE 110</td>
<td>Advanced Analog Integrated Circuits</td>
<td></td>
</tr>
<tr>
<td>EEE 234</td>
<td>Digital Integrated Circuit Design</td>
<td></td>
</tr>
<tr>
<td>EEE 238</td>
<td>Advanced VLSI Design-For-Test I</td>
<td></td>
</tr>
<tr>
<td>EEE 239</td>
<td>Advanced VLSI Design-For-Test II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>16</td>
</tr>
</tbody>
</table>

MS in Electrical and Electronic Engineering

Total units required for MS: 30

Program Description
The Master of Science degree program in Electrical and Electronic Engineering is designed to provide students with advanced study in a variety of Electrical and Electronic Engineering topics, and opportunities to conduct independent research to broaden their professional scope.

The scheduling of courses and the Culminating Experience options in the program are designed to provide flexibility for working professionals. All students complete a one-unit research methodology course, three-unit computational methods course, and at least two of the designated elective area core courses. This requirement is designed to provide a strong academic foundation. In consultation with the Graduate Coordinator and faculty advisors, students then focus their studies in one...
or more of the following areas, adapting to the needs and interests of the practicing engineer or post-graduate candidate:

- Control Systems
- Communication Systems
- Power Systems
- Microelectronic Design
- Computer Architecture & Digital Design

Coordinated courses are offered in advanced microprocessors, electromagnetic theory and microwaves, lasers and fiber optics, semiconductor devices, robotics and intelligent machines, systems and control, networks, and communication systems. Other coordinated courses facilitate the study of estimation and stochastic control, advanced communications and signal processing, large interconnected power systems, power systems reliability, and planning, advanced design and organization of digital computer systems, and advanced integrated circuit design. The program is also sufficiently flexible to allow special independent studies of problems of current interest.

The Department has a strong relationship with the local engineering community. Students of the program have access to Department laboratories and facilities and to University computer services.

**Admission Requirements**

Admission as a classified graduate student in Electrical and Electronic Engineering requires:

- a BS in Electrical and Electronic Engineering or equivalent;
- at least a 3.0 GPA in the BS in Electrical Engineering or equivalent; or
- at least a 3.25 GPA in the last 60 units of the BS in Electrical and Electronic Engineering or equivalent.

Under special circumstances, a student who does not satisfy the Admission Requirements may be admitted as a conditionally classified graduate student. Deficiencies will be specified in the acceptance letter to the student and must be removed by the student before the student can become a classified graduate student.

A student registered as an unclassified graduate student should carefully note that graduate courses taken as an unclassified graduate or as an open university student cannot be used to improve the student’s grade point average for admittance to the Electrical and Electronic Engineering graduate program. Only undergraduate Electrical and Electronic Engineering courses can be taken or retaken to improve the GPA of the student for admittance to the graduate program.

**Admission Procedures**

Applications are accepted as long as room for new students exists. However, students are strongly urged to apply by April 1 for the following fall or October 1 for the following spring. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

At the same time, students not meeting the above admission requirements should submit to the Electrical and Electronic Engineering Graduate Coordinator two letters of recommendation, Graduate Record Examination scores, and/or other evidence of their potential for successful graduate study in this program.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

**Minimum Units and Grade Requirement for the Degree**

Units Required for the MS: 30

Minimum Cumulative GPA: 3.0. No more than three (3) courses in the program of study may have a grade below “B” and no course may have a grade below “C+.”

**Advancement to Candidacy**

By the end of the first semester, after admission to the program, each student in the EEE Department is required to have a program of study approved by an elective area core faculty advisor and the Graduate Coordinator. Students will fill out a form (contract) outlining what courses they plan to take to complete the MS degree. This contract will be signed by the student and the faculty advisor, and filed in the EEE Department Office.

In addition, each student must file an application for Advancement to Candidacy with the Office of Graduate Studies indicating a proposed program of graduate study for the completion of the MS EEE. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in Admission Requirements;
- completed a minimum of 12 units in the graduate program with a minimum 3.0 GPA; at least nine units of the 12 units must be EEE 200 level courses; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Each student must be advanced to candidacy prior to registering for EEE 500.

Advancement to Candidacy forms are available in the Office of Graduate Studies and in the Electrical and Electronic Engineering Department Office.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Core Courses (11 Units)</strong></td>
<td>11</td>
</tr>
<tr>
<td>EEE 201</td>
<td>Research Methodology 🖨️</td>
<td>2</td>
</tr>
<tr>
<td>EEE 244</td>
<td>Electrical Engineering Computational Methods and Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>EEE 211</td>
<td>Microwave Engineering ¹</td>
<td></td>
</tr>
<tr>
<td>EEE 230</td>
<td>Analog and Mixed Signal Integrated Circuit Design</td>
<td></td>
</tr>
<tr>
<td>EEE 241</td>
<td>Linear Systems Analysis</td>
<td></td>
</tr>
<tr>
<td>EEE 250</td>
<td>Modern Power Transmission Systems</td>
<td></td>
</tr>
<tr>
<td>EEE 260</td>
<td>Digital Communications ¹</td>
<td></td>
</tr>
<tr>
<td>EEE 285</td>
<td>Micro-Computer System Design I</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select from the following and other areas so that the overall program totals at least 30 units:</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Communication Systems</td>
<td></td>
</tr>
</tbody>
</table>

¹ Electives in this column can be doubled in any semester.
EEE 211 Microwave Engineering  
EEE 212 Modern Antenna Design  
EEE 213 Microwave Devices and Circuits  
EEE 214 Computer Aided Design for Microwave Circuits  
EEE 215 Lasers  
EEE 245 Advanced Digital Signal Processing  
EEE 260 Digital Communications  
EEE 261 Information Theory, Coding, and Detection  
EEE 262 Wireless Communications Systems  
EEE 264 Advanced Topics in Wireless Communications  
EEE 265 Optoelectronic Engineering  
EEE 266 Modern Digital Communication Systems  
EEE 267 Fiber Optic Communications  
EEE 268 Telecommunications Networks  
EEE 272 High Speed Digital System Design  

Control Systems  
EEE 221 Machine Vision  
EEE 222 Electronic Neural Networks  
EEE 225 Advanced Robot Control  
EEE 241 Linear Systems Analysis  
EEE 242 Statistical Signal Processing  
EEE 243 Applied Stochastic Processes  
EEE 246 Advanced Digital Control  
EEE 249 Advanced Topics in Control and Systems  

Power Systems  
EEE 250 Modern Power Transmission Systems  
EEE 251 Power System Economics and Dispatch  
EEE 252 Power System Reliability and Planning  
EEE 253 Control and Stability of Power Systems  
EEE 254 Large Interconnected Power Systems  
EEE 255 Future Power Systems and Smart Grids  
EEE 256 Advanced Power Systems Protection  
EEE 257 Wind Energy Electrical Conversion Systems  
EEE 259 Advanced Topics in Power Systems  

Microelectronic Design  
EEE 230 Analog and Mixed Signal Integrated Circuit Design  
EEE 231 Advanced Analog and Mixed Signal Integrated Circuit Design  
EEE 232 Key Mixed-Signal Integrated Circuit Building Blocks  
EEE 234 Digital Integrated Circuit Design  
EEE 235 Mixed-Signal IC Design Laboratory  
EEE 236 Advanced Semiconductor Devices  
EEE 238 Advanced VLSI Design-For-Test I  
EEE 239 Advanced VLSI Design-For-Test II  

Computer Architecture & Digital Design  
EEE 270 Advanced Topics in Logic Design  
EEE 272 High Speed Digital System Design  
EEE/CSC 273 Hierarchical Digital Design Methodology  
EEE 274 Advanced Timing Analysis  
EEE/CSC 280 Advanced Computer Architecture  
EEE 285 Micro-Computer System Design I  

EEE 286 Microcomputer System Design II  

<table>
<thead>
<tr>
<th>Culminating Requirement (0-5 Units)</th>
</tr>
</thead>
</table>
| EEE 500 Culminating Experience      | 0 - 5  
| Plan A Thesis (5 units)             |  
| Plan B Project (2 units)            |  
| Plan C Comprehensive Exam (0 units) |  

**Total Units**: 30

1. Only one of these two courses will be counted as a core requirement. The other may be taken as an elective.

2. Select at least 14 units if completing a 5 unit Plan A thesis, or select at least 17 units if completing a 2 unit Plan B project, and select at least 19 units if completing a Plan C exam. This selection must be made in consultation with the elective area faculty advisor and the Graduate Coordinator, and may include approved courses from other areas. A maximum of 7 units of undergraduate technical electives in electrical and electronic engineering or computer engineering may be applied to this requirement if approved by the Graduate Coordinator and if they have not been used to satisfy the BS program requirements or MS EEE admission requirements.

**Notes:**

- The student cannot register for the Culminating Experience until the student passes the Writing Placement for Graduate Students (WPG), and advances to candidacy. In subsequent semesters, students will enroll in Continuous Enrollment through the College of Continuing Education after qualifications for enrollment are verified.

- Before registering for EEE 500, students choosing Plan A, Master Thesis (5 units), or Plan B, Master Project (2 units), must submit an approved Topic Form to the Graduate Coordinator.

- Students opting for Plan C, Comprehensive Exam, must have that option approved by their elective area advisor. They will not receive degree credit for EEE 500. They must complete a total of 30 units of approved coursework, including core, elective core, and elective courses. They must advance to candidacy for the degree, and take a written comprehensive exam that will cover all of the material in their MS Program of Study. After a student’s first failed attempt at the Plan C examination, the student shall receive advising from the graduate coordinator designed to prepare the student for a second attempt at the examination. Such advising may include a recommendation for the student to take additional course(s) to improve preparation for the next attempt. According to the Office of Graduate Studies policy, students are allowed no more than two attempts at the examination: however, if the EEE Department determines that there are extreme extenuating circumstances, the student may be recommended to the Office of Graduate Studies for a third attempt at the examination. Students are advised that a change from the exam option to project or thesis option is **not allowed** after the first attempt at the exam. Additionally, after two unsuccessful attempts at the exam, the student is subject to discontinuation from the graduate program.

**Note:** It should be recognized that industry puts a high value on project and thesis problem-solving experience, and the demonstration of technical writing skill that these options require. Graduating under Plan C option will not provide that experience. Students taking this option should consider, with their elective area advisors, other ways of gaining that valuable experience, such as through an EEE 299 Special Problems course.
• As soon as possible after the student has registered for EEE 500, it is expected that the student will select a committee appropriate to the chosen plan of study. The Thesis Committee is to consist of the student’s Thesis Advisor, who is the Chairperson of the student’s Thesis Committee, and two other faculty members. The Project Committee is to consist of the student’s Project Advisor, who is the Chairperson of the student’s Project Committee, and one other faculty member. The committee members selected by the student must be approved by the Electrical and Electronic Engineering Department’s Graduate Coordinator.

• The Thesis (Plan A) must be orally presented and defended, approved by the student’s Thesis Committee, and approved by the Electrical and Electronic Engineering Graduate Coordinator prior to submittal of the Thesis to the Office of Graduate Studies.

• The Project (Plan B) is to culminate in a report and a device or simulation, which is to be demonstrated to the student’s Project Committee. The Project Report must be approved by the student’s Project Committee and approved by the Electrical and Electronic Engineering Graduate Coordinator prior to its submittal to the Office of Graduate Studies.

Engineering

College of Engineering and Computer Science

Engineering Minor Description

Non-majors in Engineering may elect to minor in this field. Minor requirements may be satisfied by completing 21 approved units, of which 12 must be upper division. Students who have not completed the lower division requirements in calculus, including differential equations, physics, chemistry, and a few engineering courses will find it difficult to complete this minor in the four-year program due to the prerequisite requirements of upper division engineering courses. Students wishing to minor in Engineering must have their minor program approved by the Associate Dean of the College of Engineering and Computer Science.

Degree Program

Minor in Engineering (p. 645)

Contact Information

Kevan Shafizadeh, Associate Dean
Riverside Hall 2014
(916) 278-6852
Email the Associate Dean of ECS (assocdean@ecs.csus.edu)
College of Engineering & Computer Science Website (http://www.ecs.csus.edu)

ENGR 1. Introduction to Engineering. 1 Unit
Prerequisite(s): Engineering major status or instructor permission
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Engineering study skills, fundamentals of the engineering design process and problem solving, current engineering challenges. Distinctions and similarities of different engineering disciplines. The engineering profession, ethics, teamwork, communication skills. Course helps students make an informed choice of their engineering majors.
Credit/No Credit

ENGR 1A. Fundamentals of Engineering. 3 Units
Prerequisite(s): Algebra and trigonometry or instructor permission.
Term Typically Offered: Fall, Spring

Problem solving skills needed in all areas of engineering offered at Sacramento State. Exposure to the different areas of engineering, and understanding of the relationship between them. Students will work in teams and complete hands-on engineering laboratory experiments and projects. Development of effective communication skills by presenting periodic oral and written reports. Computers will be used throughout. Lecture two hours, laboratory three hours.
Note: Not for degree credit.
Credit/No Credit

ENGR 2. Robotics Explorations. 3 Units
Prerequisite(s): Algebra and Trigonometry.
Term Typically Offered: Fall, Spring

Introduction to robotics. History of robotics, recent advances in the field, common devices such as sensors and actuators. Use of modular robotic kits. Students will be assigned competition based projects.

ENGR 6. Engineering Graphics and CADD (Computer Aided Drafting and Design). 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring,

In-depth graphical analysis and solution of typical three-dimensional space problems by applying the principles of orthogonal projection. Fundamentals of interactive computer aided design and drafting. Preparation of engineering drawings utilizing the CAD system. Lecture two hours; laboratory three hours.

ENGR 6W. Engineering Graphics and CADD Workshop. 1 Unit
Corequisite(s): ENGR 6.
Term Typically Offered: Fall, Spring,

Problem solving and discussion of topics in Engineering Graphics and CADD (Computer Aided Drafting and Design) to enhance students’ understanding of subject matter. Not for degree credit. Technical activity and laboratory, two hours.
Credit/No Credit
ENGR 7. 3-D CAD Solid Modeling. 3 Units
Prerequisite(s): ENGR 4 or ENGR 6.
Term Typically Offered: Fall, Spring

Applications of three-dimensional representation techniques as used in a typical CAD (computer aided drafting) software package (AutoCAD). Fundamentals employed in creating, modifying, analyzing and filing engineering drawings. This course will have a mechanical emphasis. Lecture two hours; laboratory three hours.

ENGR 17. Introductory Circuit Analysis. 3 Units
Prerequisite(s): PHYS 11C, MATH 45; either the math or physics may be taken concurrently, but not both.
Term Typically Offered: Fall, Spring, Summer

Writing of mesh and node equations. DC and transient circuit analysis by linear differential equation techniques. Application of laws and theorems of Kirchoff, Ohm, Thevenin, Norton and maximum power transfer. Sinusoidal analysis using phasors, average power.

ENGR 17P. Peer-Assisted Learning ENGR 17. 1 Unit
Corequisite(s): ENGR 17
Term Typically Offered: Fall, Spring

Students concurrently enrolled in ENGR 17P work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of ENGR 17P content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.

ENGR 17W. Circuits Workshop. 1 Unit
Corequisite(s): ENGR 17
Term Typically Offered: Fall, Spring, Summer

Elaborates on fundamentals and enhances students' understanding of circuits.
Note: Not for degree credit.

ENGR 30. Analytic Mechanics: Statics. 3 Units
Prerequisite(s): PHYS 11A and MATH 31
Term Typically Offered: Fall, Spring, Summer


ENGR 30P. Peer-Assisted Learning ENGR 30. 1 Unit
Corequisite(s): ENGR 30
Term Typically Offered: Fall, Spring

Students concurrently enrolled in ENGR 30 work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of ENGR 30 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.

ENGR 45. Engineering Materials. 3 Units
Prerequisite(s): CHEM 1E and MATH 30. CHEM 1E may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Basic principles of mechanical, electrical and chemical behavior of metals, polymers and ceramics in engineering applications; topics include bonding, crystalline structure and imperfections, phase diagrams, corrosion, and electrical properties. Laboratory experiments demonstrate actual behavior of materials; topics include metallography, mechanical properties of metals and heat treatment. Lecture two hours; laboratory three hours.

Note: Fee course.

ENGR 45P. Peer-Assisted Learning ENGR 45. 1 Unit
Corequisite(s): ENGR 45
Term Typically Offered: Fall, Spring

Students concurrently enrolled in ENGR 45 work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of ENGR 45 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.

Credit/No Credit

ENGR 45W. Engineering Materials Workshop. 1 Unit
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in materials science to enhance students' understanding of subject matter. Activity two hours.

Note: Can not be used for the degree requirement.

Credit/No Credit

ENGR 50. Computational Methods and Applications. 3 Units
Prerequisite(s): Math 30 and PHYS 11A; Physics 11A may be taken concurrently.
Term Typically Offered: Fall, Spring

Computational methods for solving problems in analysis and design. Introduces lower division students to the use of computer technology for the computations required to solve real world problems in science and engineering. Includes introduction to numerical techniques, introduction to structured programming, and graphic visualization. Practical applications of analysis and design using tools such as MATLAB and C++. Emphasis is on developing confidence and skill in finding computational solutions to practical science and engineering problems. Portable computer recommended. Lecture three hours.

ENGR 50P. Peer-Assisted Learning ENGR 50. 1 Unit
Corequisite(s): ENGR 50
Term Typically Offered: Fall, Spring

Students concurrently enrolled in ENGR 50 work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of ENGR 50 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.

Credit/No Credit
ENGR 60. MEP Orientation and Problem Solving.  2 Units
Term Typically Offered: Fall, Spring

Mandatory class for MEP freshman students on orientation to the University, its resources, facilities and faculty. Students will be encouraged to form a group atmosphere where they can freely interact with each other and value each other as resources. Students will be provided with instruction and materials on study skills, note taking, time management, preparing for tests and dealing with stress. Presentation by working engineers and field trips to engineering firms will be taken. Personal and professional development will also be part of the freshman orientations with leadership, public speaking and career planning being topics of discussion. Lecture one hour; activity two hours.

Note: Not for use as an engineering major technical elective and is not applicable to the baccalaureate degree.

Field trip(s) may be required.

ENGR 70. Engineering Mechanics.  3 Units
Prerequisite(s): PHYS 11A.
Term Typically Offered: Fall, Spring


ENGR 96A. Interdisciplinary Topics in Engineering.  1 Unit
Term Typically Offered: Fall, Spring

Course will enable students to make an informed choice of their engineering majors, engage on interdisciplinary discussions between engineering fields, and equip them with relevant study skills. An introduction to engineering and the fundamentals of problem solving. Distinctions between different disciplines within engineering as well as other similarities. The engineering profession and ethics. Study skills for an engineering education.

Credit/No Credit

ENGR 105. Sustainable Design and Construction.  3 Units
Prerequisite(s): Upper division standing or instructor permission.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Strategies, analysis methods, and processes of environmentally conscious planning, design, construction, operation, deconstruction, and assessment of engineered facilities. Presents a systematic framework for problem solving, decision making, design, and construction using the principles of sustainability as guiding objectives. Tools, and techniques for gathering information, generating, analyzing, and evaluation alternatives, and developing implementation strategies are presented and demonstrated.

ENGR 106. Energy and Modern Life.  3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer

Our modern life is intimately and increasingly intertwined with energy utilization. This course deals with where energy comes from, how it is converted to desirable forms, where it is consumed, and what the consequences of this consumption are. In each case, historical prospective, current status, and future projections will be discussed. The ultimate objective of this course is to help students to make informed decisions on energy-related issues in their personal life and as responsible citizens of the society.

ENGR 110. Analytic Mechanics - Dynamics.  3 Units
Prerequisite(s): Student must pass ENGR 30, MATH 45, and MATH 32 or MATH 35 or MATH 100 with a minimum grade of C- or better.
Term Typically Offered: Fall, Spring, Summer

Fundamental principles of kinematics and kinetics, study of motion and force analysis of particles and rigid bodies, application to idealized structures and physical systems, introduction to free and forced vibrations.

ENGR 110W. Analytic Mechanics-Dynamics Workshop.  1 Unit
Corequisite(s): ENGR 110.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in dynamics to enhance students' understanding of subject matter. Activity two hours.

Note: Can not be used for degree requirement.

Credit/No Credit

ENGR 112. Mechanics Of Materials.  3 Units
Prerequisite(s): ENGR 30, ENGR 45; MATH 45; and either CE 4 or ENGR 6 (CE 4 or ENGR 6 may be taken concurrently).
Term Typically Offered: Fall, Spring, Summer

Stresses, strains and deformations in elastic behavior of axial force, torsion and bending members, and design applications. Statically indeterminate problems. Strain energy. Column stability.

ENGR 112P. Peer-Assisted Learning ENGR 112.  1 Unit
Corequisite(s): ENGR 112.
Term Typically Offered: Fall, Spring

Students concurrently enrolled in ENGR 112 work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of ENGR 112 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.

Credit/No Credit

ENGR 115. Statistics For Engineers.  3 Units
Prerequisite(s): MATH 31, may be taken concurrently.
Term Typically Offered: Fall, Spring

Application of statistical methods to the analysis of engineering and physical systems. Data collection, characteristics of distributions, probability, uses of normal distribution, linear and nonlinear regression analysis, hypothesis testing, and decision-making under uncertainty.
ENGR 177W. Networks Workshop. 1 Unit
Corequisite(s): EEE 117.
Term Typically Offered: Fall, Spring

Elaborates on fundamentals and enhances students' understanding of networks.
Note: Not for degree credit.

Credit/No Credit

ENGR 120. Probability and Random Signals. 3 Units
Prerequisite(s): EEE 180; may be taken concurrently.
Term Typically Offered: Fall, Spring

Probability and random signals and their application in engineering systems. Topics include the random sample space model, concept of axiomatic probability, conditional probability, discrete and continuous random variables, probability density and distribution functions, functions and statistics of random variables, random vectors multivariate distributions, and correlation and covariance of random vectors. Applications include estimation, risk, signal detection, random signals and noise in linear systems, reliability, and estimation.

ENGR 124. Thermodynamics. 3 Units
Prerequisite(s): CHEM 1E, PHYS 11A, and MATH 32 or MATH 35 or MATH 100.
Term Typically Offered: Fall, Spring, Summer

Study of thermodynamic principles and their applications to engineering problems. Includes a study of the first and second laws, the properties of pure substances and ideal gas, gas/vapor mixtures, and an introduction to thermodynamic cycles.

ENGR 124W. Thermodynamics Workshop. 1 Unit
Corequisite(s): ENGR 124.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in thermodynamics to enhance students' understanding of subject matter. Activity two hours.
Credit/No Credit

ENGR 132. Fluid Mechanics. 3 Units
Prerequisite(s): ENGR 110 (may be taken concurrently)
Term Typically Offered: Fall, Spring, Summer

Lectures and problems in the fundamental principles of incompressible and compressible fluid flow.

ENGR 140. Engineering Economics. 2 Units
Prerequisite(s): ENGR 17 or ENGR 30
Evaluation of economic consequences of engineering design proposals on projects. Emphasis on marginal or incremental economic analysis using Net Present Value, Annual Equivalence, Rate of Return and Benefit-Cost methods including multiple alternatives, taxes, uncertainty, inflation, organizational constraints and money market factors.

ENGR 150. Technical Communication. 3 Units
Prerequisite(s): Recommendation based on the results of the WPG or instructor permission
Term Typically Offered: Fall, Spring

Practical technical communication for engineers and computer scientists. Topics covered include practical technical writing, improving technical writing style, development of strategies to improve writing, oral presentations, running effective meetings, and the use of visual aids. The use of appropriate communication technology is emphasized throughout the course.

ENGR 181. Electronic Materials. 3 Units
Prerequisite(s): CHEM 1A, PHYS 11A, MATH 45.
Term Typically Offered: Fall, Spring

Basic principles of materials behavior pertaining to electronics applications. Topics include electrical conductivity, bonding, crystal structures, optical properties, magnetic properties, energy transfer, and the fundamentals of some simple electronic devices. Lecture 3 hours.

ENGR 193. Emerging Leaders in STEM. 1 Unit
Prerequisite(s): Sophomore standing (must have completed 30 units prior to registration).
Term Typically Offered: Fall, Spring

This course focuses on in-depth leadership training for professional STEM success. Students will explore aspects of effective leadership, uncover their own leadership capacity and skills, and enhance their leadership prowess by studying and applying recognized best practices. Topics include setting personal and professional goals, becoming a productive team member, how to step into a leadership role, how to motivate team members, and how to develop productive work-flow processes.
Cross listed: NSM 193.

ENGR 194. Career Development Seminar. 1 Unit
Term Typically Offered: Fall, Spring

This course is designed for all ECS majors making career decisions and developing a job search strategy. Instruction will include: effective career planning strategies and techniques including skill assessment, interests, values, job search organization and strategies, goal setting, and time management as well as professional image development including interview techniques, resume writing, employment related correspondence and portfolio construction. Guest speakers from industry will be featured.
Credit/No Credit

ENGR 196B. Energy and Modern Life. 3 Units
Term Typically Offered: Fall, Spring

Our "modern life" is intimately and increasingly intertwined with energy utilization. This course deals with where energy comes from, how it is converted to desirable forms, where it is consumed, and what the consequences of this consumption are. In each case, historical prospective, current status, and future projections will be discussed. The ultimate objective of this course is to help students to make informed decisions on energy-related issues in their personal life and as responsible citizens of the society.

ENGR 196G. Advancing Leaders in STEM. 1 Unit
Prerequisite(s): ENGR 193 or NSM 193.
Term Typically Offered: Fall, Spring

This course continues the in-depth leadership training for professional STEM success introduced in ENGR/NSM 193. Students will apply and evaluate various strategies for effective leadership. Students will increase their capacity to recognize various situations and best leadership practices for each. Topics include setting personal and professional goals, becoming a productive team member, stepping into a leadership role, motivating team members, and developing productive work-flow processes.
ENGR 197. Seminar in Peer-Assisted Learning. 2 Units
Prerequisite(s): Instructor Permission
Corequisite(s): Acceptance as PAL Facilitator
Term Typically Offered: Fall, Spring
Classroom training and support for students concurrently serving as ECS Peer-Assisted Learning (PAL) facilitators. Classroom training will focus on facilitating problem-solving within groups, communicating effectively, and mentoring peers from diverse backgrounds. Action research on learning theory as applied to a classroom setting with culminating research presentation.

ENGR 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring, Summer
Individual projects or directed study.
Credit/No Credit

ENGR 201. Engineering Analysis I. 3 Units
Prerequisite(s): MATH 45.
Term Typically Offered: Fall, Spring
Mathematical methods for the solution of advanced engineering problems. Vector analysis, tensors and matrix algebra, complex variable techniques. The applications of these methods to practical engineering problems are demonstrated.

ENGR 202. Engineering Analysis II. 3 Units
Prerequisite(s): MATH 45.
Term Typically Offered: Fall, Spring
Mathematical methods for the solution of advanced engineering problems. Solutions of ordinary and partial differential equations, Fourier series and Laplace transforms and operational calculus. The applications of these methods to practical engineering problems are demonstrated.

ENGR 203. Engineering Statistics. 3 Units
Prerequisite(s): ENGR 115 or equivalent.
Term Typically Offered: Fall, Spring
Applications of statistics to engineering problems. Collection and analysis of data, sampling methods, design of experiments, probability theory, decision theory, analysis of variance, regression analysis, and mathematical curve fitting.

ENGR 296. Experimental Methods for Fluids. 3 Units
Prerequisite(s): ENGR 132, and either MATH 32 or ENGR 202
Term Typically Offered: Spring only
Experimental methods for flow and transport phenomena are studied in the lecture and applied in the lab/field. Topics include planar laser induced fluorescence, acoustic velocimetry, and sediment transport.

ENGR 296A. Quality Management Systems for Engineers. 3 Units
Prerequisite(s): Graduate Standing
Term Typically Offered: Fall, Spring
Designed to equip students with understanding of basic terms and definitions related to quality, a brief history and basic quality concepts, understanding measurement systems and tools, understanding differences of quality control (QC), quality assurance (QA) and quality management (QM), getting familiar with the applications of different tools, systems and standards and how to select proper tools for different quality requirements. Understanding basic inspection, auditing, assessment and evaluation techniques.

### Minor in Engineering

Units required for Minor: 21, of which 12 must be upper division

#### Program Description

Non-majors in Engineering may elect to minor in this field. Students who have not completed the lower division requirements in calculus, including differential equations, physics, chemistry, and a few engineering courses will find it difficult to complete this minor in the four-year program due to the prerequisite requirements of upper division engineering courses.

Students wishing to minor in Engineering must have their minor program approved by the Associate Dean of the College of Engineering and Computer Science.

#### Program Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>ENGR 17</td>
<td>Introductory Circuit Analysis</td>
<td>3</td>
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<tr>
<td>ENGR 30</td>
<td>Analytic Mechanics: Statics</td>
<td>3</td>
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<tr>
<td>ENGR 45</td>
<td>Engineering Materials</td>
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<tr>
<td>ENGR 110</td>
<td>Analytic Mechanics - Dynamics</td>
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<td>ENGR 112</td>
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<td>ENGR 124</td>
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</tr>
<tr>
<td>ENGR 132</td>
<td>Fluid Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units: 21**

### Introductory Supplementary Authorization in Computer Science

The Introductory Supplementary Authorization in Computer Science allows holders of a Multiple Subject (Elementary) Teaching Credential to teach computer science content to students in grades 9 and below. In addition, the authorization may be added to the Single Subject Teaching Credential to teach computer science content that is normally found in grades 9 and below, to students in grades K-12.

To earn this Introductory Supplementary Authorization, students must complete 20 semester units or 10 upper division semester units of coursework which covers the following four areas: computational thinking, computing practice and programming, computers and communication devices, and impacts of computing. At least one course must cover each of the first three listed areas; impacts of computing may be part of other completed courses. The balance of the ten or twenty units may be in any course related to computer science.

Courses in computing and computers topics not offered by the Computer Science department do not automatically meet the requirements without submission of transcripts to the department pre-teaching advisor(s), to verify all the required content areas have been fulfilled. This listing of courses will assist future teachers who are interested in teaching computer science in K-12 settings. Please see a Computer Science department pre-teaching advisor (or inquire at the department office) for more information or for a transcript evaluation.

Please view the Example Course Completion Pathways for suggestions on efficient ways to complete the following criteria.

**Computational thinking:** involves solving problems and designing systems, using fundamental computing concepts such as decomposition, data representation, generalization/abstraction, and algorithms.
Recommended courses that meet this requirement include CSC 10, CSC 15, CSC 20, CSC 25, CSC 28, CSC 60, or CSC 130.

Computing practice and programming: includes expertise in at least one block-based, visual (drag-and-drop) programming language (e.g., Alice, Blockly, Kodu, Logo, Scratch, Snap!) or a modern, high-level programming language. Recommended courses that meet this requirement include CSC 15, CSC 20, CSC 25, CSC 60, or CSC 130.

Computer and communications devices: covers the major components and functions of digital devices and the computing systems they compose. Courses that meet this requirement include CSC 35.

Impacts of computing: includes the social, ethical, and legal issues and impacts of computing, as well as the contributions of computer science to current and future innovations in the arts, business, humanities, medicine, and science. Courses that meet this requirement include PHIL 103, EDSS 373 A&B, or EDMS 330 A&B (EDSS and EDMS are required teaching credential courses), as well as other approved courses with a subject matter focus on impacts of computing.

Example Course Completion Pathways:
Computational thinking: CSC 10 (3)
Computing practice and programming: CSC 15 (3), CSC 20 (3)
Computer and communications devices: CSC 35 (3)
Impacts of computing: PHIL 103 (3), EDMS 330A (1), EDMS 330B (1)
Any other 3-credit CSC course

Computational thinking: CSC 10 (3)
Computing practice and programming: CSC 15 (3), CSC 20 (3)
Computer and communications devices: CSC 35 (3)
Impacts of computing: PHIL 103 (3), EDSS 373A (1), EDSS 373B (1)
Any other 3-credit CSC course

Mechanical Engineering
College of Engineering and Computer Science

Program Description
Mechanical Engineering involves the design of all types of machines and equipment including vehicles used in ground, air, and space transportation; machines for the conversion of fuels into energy; food processing; consumer products; robots; biomedical devices; the machines used to manufacture all of the above; and the climate control of buildings. Mechanical engineers bring together the fields of design graphics, manufacturing, engineering materials, thermodynamics and heat transfer, and the principles of mathematics and science to find solutions to societal needs. They often work directly in the design and operation of food processing plants, power plants, manufacturing plants, refineries, and other industrial operations. A major goal of the curriculum is to provide the graduates with the analytical and practical skills needed to perform mechanical design in a variety of fields, preparing graduates to take advantage of the many employment opportunities.

The Mechanical Engineering Program includes courses on design, thermal sciences, manufacturing, properties, and selection of materials, and computer applications related to these topics. The curriculum maintains a balance among basic fundamentals, analytical methods, and design applications of current knowledge, preparing the graduates for both entry into the profession and a life-long career.

The employers of Mechanical Engineering graduates include aircraft and automobile companies, food processing companies, machinery and equipment companies, gas and electric utilities, architectural and engineering firms, and many agencies in federal, state, and local governments. Some graduates continue their education by completing advanced degrees in Engineering or Management.

Degree Programs
BS in Mechanical Engineering (p. 656)
Blended BS/MS in Mechanical Engineering Program (p. 656)
MS in Mechanical Engineering (p. 658)

Accreditation
In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Mechanical Engineering is also individually accredited by ABET, Inc.

Notice to Students RE: Professional Licensure and Certification
California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features
- The Mechanical Engineering program is ABET accredited by the Engineering Accreditation Commission (EAC/ABET), Engineering Accreditation Commission (EAC/ABET)
111 Market Place, Suite 1050
Baltimore, Maryland 21202
(410) 347-7700
In keeping with its accreditation, the Mechanical Engineering program has strong engineering design content. In particular, the program includes a four-semester sequence on modern design and manufacturing methods.
- Faculty members have backgrounds in Mechanical, Aeronautical, Manufacturing, and Materials Science. The faculty has a variety of research interests; the majority has industrial experience which contributes to the applied emphasis in the Mechanical Engineering
program. Most of the faculty have doctorates; some are registered Professional Engineers (PE).

- Lectures and lab are arranged so students can participate in meaningful discussions and a real exchange of ideas between students and faculty.
- Upper division students do cooperative work on team projects and often develop study groups for other courses.
- Courses taken in the freshman and sophomore years form a foundation for the upper division program; e.g., the dynamics and strength of materials studied in the junior year depend on the sophomore mechanics, calculus, and physics courses. Building on analytical and communications skills learned in the lower division, students take a four semester design-project sequence which includes the study of design methods, and the procedures for developing a design solution from concept through a fully-developed design and finally to production. The courses in mechanics, energy transformation, manufacturing, and materials support this sequence.
- Students can take elective courses in computer analysis, heating, ventilating and air-conditioning, manufacturing methods, and systems and materials engineering.

**Program Educational Objectives**

Mechanical Engineering Graduates will have:

- utilized a foundation in engineering and science to engage in successful careers in mechanical engineering or other fields to the benefit of society.
- become effective participants or leaders in innovation and multi-disciplinary collaboration to address global technical, social, and industrial issues.
- engaged in career and professional development through self-study, continuing education, or graduate studies in engineering or other professional fields.

**Academic Policies and Procedures**

**Course Repeat Policy** - Undergraduate engineering and mechanical engineering courses that are used to meet the Bachelor of Science in Mechanical Engineering degree requirements may be repeated only twice (for a total of three attempts). Grades of the second and third attempts will be averaged in grade point calculations.

**Incomplete Grades** - Incomplete grades are issued only in accordance with University policy. The student must be passing the course at the time an “Incomplete” is requested. An Incomplete Petition must be submitted to the Department with the student’s and the course instructor’s signature. The Incomplete Petition (obtained in the Department Office) must specify the work to be completed, the basis by which the student’s final grade will be determined, and the last date for completion of the incomplete work. An incomplete grade that is not cleared by the set date will lapse to an “F” grade.

**Career Possibilities**

Aeronautical Engineer · Automotive Engineer · Design Engineer · Development Engineer · Energy Management Engineering Manager · Environmental Engineer · Food Processing Machine Designer · Manufacturing Engineer · Plant Engineer · Project Engineer · Research Engineer · Technical Sales Engineer

**Contact Information**

Troy D. Topping, Ph.D., Department Chair

Riverside Hall, Room 4024
(916) 278-6624

Department of Mechanical Engineering Website (http://www.ecs.csus.edu/wcm/me/)

**Faculty**

GAO, LINYUE
GRANDA, JOSE
HOMEN, PATRICK
KUMAGAI, AKIHIKO
MARBACH, TIMOTHY L.
ROMANI, MARCUS
SPROTT, KENNETH S.
SUH, YONG S.
TANG, HONG-YUE (RAY)
TOPPING, TROY
TUZCU, ILHAN
VOGT, RUSTIN
ZABIHIAN, FARSHID

**ME 37.** Manufacturing Processes. 3 Units

*Term Typically Offered:* Fall, Spring, Summer

Principles of manufacturing processes in the areas of metal removal, forming, joining and casting and fundamentals of numerical control. Study includes applications of equipment, e.g., lathe, milling machine, drill press, saw, grinder, welder, molding equipment and core makers. Emphasis on safety during hands-on operations. Two hours lecture, one three-hour lab.

**ME 76.** Programming and Problem Solving in Engineering. 2 Units

*Prerequisite(s):* Math 30; Phys 11A; Phys 11A may be taken concurrently

*Term Typically Offered:* Fall, Spring, Summer

Introduction to the use of computers for engineering, science and mathematical computations. Provides basic computer operation skills, and includes the use of modern interactive symbolic and numerical computation packages as well as an introduction to programming methods for solving engineering problems. Both analytical and graphical tools will be used for applications. Sample applications will be drawn from a variety of science and engineering areas.

**ME 105.** Introduction to Technical Problem Solving. 3 Units

*Prerequisite(s):* ENGR 17 and ENGR 30.

*Term Typically Offered:* Fall, Spring, Summer

Introduction to the use of computers for engineering, science and mathematical computations. Introduction to linear algebra and matrix applications. Introduction to concepts of programming and visualization using MATLAB and PBasic. Practical applications involving design using a microcontroller. Applications will be drawn from a variety of science and engineering areas. Lecture two hours, Laboratory three hours.
ME 106. Applications of Programming in Mechanical Engineering. 1 Unit

Prerequisite(s): ME 76 or equivalent
Term Typically Offered: Fall, Spring, Summer

Application of programming in the solution of practical engineering problems. Topics include problem formulation, algorithm development, advanced graphical user-interface development, and generating simulations using software packages such as Simulink. A project that involves programming a robot to perform designated tasks is included. Laboratory 1 unit.

ME 108. Professional Topics for Mechanical Engineers. 2 Units

Prerequisite(s): MATH 31. MATH 31 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to statistical methods applied to analysis of engineering systems. Topics include data collection, distribution characteristics, probability, uses of regression analysis, and decision-making under uncertainty. Introduction to economic analysis applied to engineering designs. Topics include marginal or incremental economic analysis using multiple standard methods while addressing organizational constraints and market factors. Investigations into the roles engineers play in society in working toward sustainability, and ethical decision making in a technological world.

ME 114. Vibrations. 3 Units

Prerequisite(s): ENGR 110, ME 105.
Term Typically Offered: Fall, Spring


ME 115. Dynamics of Machinery and Multi-Body Systems. 3 Units

Prerequisite(s): ENGR 110, ME 105.
Term Typically Offered: Fall, Spring

Kinematic and kinetic analysis of mechanisms. Rigid and flexible multi-body assembly models in two and three dimensions. Use of solid modeling, dynamic analysis and finite element methods. Study of loads on linkages, cams, gears as integral functioning components of machines, ground and space vehicles. Study of forces and moments in machinery under impulsive and impact forces, balancing, and elements of vibration.

ME 116. Machinery Design I. 2 Units

Prerequisite(s): ENGR 112, and ME 37. ENGR 112 and ME 37 may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Introduction to basic design methodology for mechanical systems and devices. Detail design of machine components; application of analytical methods in the design of complex machines. Failure mode analysis, theories of failure, yield, fracture, deflection, and fatigue analysis of machine elements. Design of common machine elements such as bearings and shafts.

ME 117. Machinery Design II. 2 Units

Prerequisite(s): ME 116.
Term Typically Offered: Fall, Spring

Introduction to design of machine components; application of analytical methods in the design of complex machines. Design of common machine elements such as threaded fasteners, springs, flexible drive components, gears, and friction devices. Introduction to stress and deflection analysis using finite element software.

ME 120. Fluid Mechanics for Mechanical Engineers. 3 Units

Prerequisite(s): ENGR 110 or concurrent enrollment.
Term Typically Offered: Fall, Spring, Summer

Fundamentals of fluid mechanics, including fluid statics; mass, momentum and energy conservation laws and analysis; inviscid and viscous (laminar, turbulent) flow; pumps, turbines, internal flow in pipes; external flow on moving or submerged objects; dimensional analysis, modeling, applications. Lecture. 3 units.

ME 121. Solar Thermal and Energy Storage Systems. 3 Units

Prerequisite(s): ENGR 124.
Term Typically Offered: Fall, Spring

Study of solar thermal heat and power and energy storage including the characterization, theory, operation, analysis and modeling of solar thermal and energy storage systems.

ME 122. Geothermal and Bioenergy Systems. 2 Units

Prerequisite(s): ENGR 124.
Term Typically Offered: Fall, Spring

Study of geothermal and bioenergy systems including the characterization, theory, operation and modeling.

ME 123. Wind, Hydro and Ocean Energy. 3 Units

Prerequisite(s): ENGR 124 and ME 120.
Term Typically Offered: Fall, Spring

Exploring sustainable energy and power generation, through study of wind, hydro and ocean energy systems, including the characterization, theory, operation, analysis and modeling, planning impacts and design process.

ME 126. Heat Transfer. 3 Units

Prerequisite(s): ENGR 124 and ME 120.
Term Typically Offered: Fall, Spring, Summer

Basic principles of heat transfer, including processes of conduction, convection, radiation, evaporation and condensation. Lecture three hours.

ME 126W. Heat Transfer Workshop. 1 Unit

Corequisite(s): ME 126.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of heat transfer to enhance students’ understanding of subject matter.

Note: May be repeated for credit.

Credit/No Credit
ME 128. Thermal-Fluid Systems. 3 Units
Prerequisite(s): ME 126 (may be taken concurrently).
Term Typically Offered: Fall, Spring, Summer

Fundamentals of the Otto, Diesel, Brayton and Rankine power cycles, vapor-compression refrigeration, psychrometric processes and chemical reactions. Theory and application of temperature, pressure, flow, and velocity instruments, introduction to experiment design, errors, uncertainty and data acquisition, data analysis and presentation.

ME 129. Power Plant Engineering. 3 Units
Prerequisite(s): Thermodynamics (ENGR 124) and Thermal-Fluid Systems (ME 128). ME 128 may be taken concurrently.
Term Typically Offered: Fall, Spring

In this course, the students will be able to understand the fundamentals of power industry, including electricity production, transmission, and distribution. They will also apply their engineering knowledge gained in the fundamental courses to understand and conceptually design various modern power plant technologies for electric power generation and cogeneration, including steam power plants, gas turbines, combined cycles, and nuclear power plants and their components.

ME 132. Solar Energy, Geothermal Energy, and Bioenergy Systems. 3 Units
Prerequisite(s): Thermodynamics (ENGR 124)
Term Typically Offered: Fall, Spring

In this course, the students will study solar energy, geothermal energy, and bioenergy systems. They will apply their engineering knowledge gained in the fundamental courses to design these systems. They will also learn about theoretical foundations, characterization, operation, and environmental impacts of these energy systems.

ME 136. Numerical Control Programming. 3 Units
Prerequisite(s): ME 37 and ME 105; ME 105 may be taken concurrently.
Term Typically Offered: Fall, Spring

Computer programming languages for automated manufacturing, including CNC manual programming, cutter compensation, geometric definition of products, cutting tool definition, continuous path part programming, computation, decision, looping, computer graphics programming and intelligent machines.

ME 137. Product Design for Manufacturing and Automation. 3 Units
Prerequisite(s): ME 117.
Term Typically Offered: Fall, Spring

Various manufacturing and automation aspects of product design, including design for machining, design for automation, applications of CAD/CAM software in product design and automation, and rapid prototyping. Virtual design and manufacturing and agile manufacturing will also be discussed.

ME 138. Concurrent Product and Process Design. 3 Units
Prerequisite(s): ME 37 and ME 116.
Term Typically Offered: Fall, Spring

Manufacturing considerations in product design including: design for manufacturing (DFM), design for assembly (DF A), design to cost (DTC), design to life cycle cost (DTLCC), design for quality and reliability (DFQR); introduction to concurrent engineering. Two hours lecture, three-hour lab.

ME 140. Introduction to Motors and Actuators. 2 Units
Prerequisite(s): ME 172 or EEE 184.
Term Typically Offered: Fall, Spring

Power conversion hardware used in electromechanical systems. Operation and sizing of electric motors, both DC and AC systems, motor controllers, and power electronics; sensors; design in fluid power systems, both pneumatic and hydraulic; and power transmission systems such as ball screws and belt drivers.

ME 141. Introduction to Tolerance Analysis. 2 Units
Prerequisite(s): ME 116
Term Typically Offered: Fall, Spring

Introduction to techniques used in manufacturing tolerance analysis. Assembly tolerance analysis using standard industry practices; application of geometric dimensioning techniques to tolerance analysis; drawing practices for indicating dimensional tolerances; statistical techniques; tolerance allocation. Introduction to computer aided tolerance analysis.

ME 143. Vehicle Dynamics and Design. 3 Units
Prerequisite(s): ENGR 110 and ME 117.
Term Typically Offered: Fall, Spring


ME 145. Vehicle Crash Reconstruction. 3 Units
Prerequisite(s): ENGR 110
Term Typically Offered: Fall, Spring

Study of forensic engineering using state of the art technology. Application of principles of dynamics for forensic investigation and reconstruction of vehicle collisions. Cases involving, cars, motorcycles, bicycles and commercial vehicles. Study of devices that contribute to passenger safety and stability. Analysis of seat belts, airbags, and electrohydraulic stabilizers. Data analysis of Event Data Recorders (EDRs) and verification with real cases using state of the art reconstruction techniques, photogrammetry and the use of computer simulations in two and three dimensions.

ME 151. Fundamentals of Combustion. 3 Units
Term Typically Offered: Fall, Spring

Principles of combustion and pyrolysis of gaseous, liquid, and solid materials. Applications of principles, including analysis and design of stationary and mobile powerplants, waste management, and fire safety.

ME 152. Turbomachinery Design. 3 Units
Prerequisite(s): ME 120 and ENGR 124
Term Typically Offered: Fall, Spring

Theoretical analysis of energy transfer between fluid and rotor; principles of axial, mixed, and radial flow compressors and turbines. Applications and computer-aided design of various types of turbomachines.
ME 153. Thermodynamics of Combustion Engines.  3 Units  
Prerequisite(s): ENGR 124, ENGR 132, ME 105.  
Term Typically Offered: Fall, Spring  
Application of thermodynamic and fluid mechanical analysis to various kinds of engines, including those based on Otto, Diesel, Brayton, Rankine, and Stirling cycles. Development of computer models and comparison of cycles in terms of applications to land, marine, and aerospace propulsion.

ME 154. Alternative Energy Systems.  3 Units  
Prerequisite(s): ENGR 124.  
Term Typically Offered: Fall, Spring  
Study of alternative energy technologies, such as renewable fuels, wind, solar, oceanic and geothermal power. Concentration on fundamental thermodynamic principles, modern design features and non-technical aspects of each technology.

ME 155. Gas Dynamics.  3 Units  
Prerequisite(s): ME 105.  
Term Typically Offered: Fall, Spring  

ME 156. Heating and Air Conditioning Systems.  3 Units  
Prerequisite(s): ENGR 124, ENGR 132.  
Term Typically Offered: Fall, Spring  
Theory and design of heating, ventilating and air conditioning for industrial and comfort applications. Topics include refrigeration cycles, heating and cooling load calculations, psychrometrics, solar heating and cooling component, and system design.

ME 157. Solar Energy Engineering.  3 Units  
Prerequisite(s): ME 126; may be taken concurrently.  
Term Typically Offered: Fall, Spring  
In-depth study of the basics of solar engineering, including the nature and availability of solar radiation; operation, theory and performance of solar collectors; energy storage and model of solar systems.

ME 159. High Efficiency HVAC.  3 Units  
Prerequisite(s): ME 156 or instructor permission.  
Term Typically Offered: Fall, Spring  
Starts with a review of the theory and design of HVAC systems. Recent improvements and new developments in cooling and heating equipment are studied in detail. Computer models such as the Trane TRACE Program are used to size an HVAC system with an emphasis on high efficiency. Computer based controls and energy management systems are discussed and demonstrated. Field trips to energy efficient installations are included. Field trip(s) may be required.

ME 164. Introduction to Test Automation.  3 Units  
Prerequisite(s): ME 105, ME 117.  
Term Typically Offered: Fall, Spring  
Basic concepts to automate testing procedures. Introduction to sensors, signal conditioning, sampling theory, design of experiments, data acquisition software, and data reduction techniques. Hands-on experience with PC based data acquisition software and hardware which will be used to create testing programs. Lecture two hours; laboratory three hours.

ME 165. Introduction To Robotics.  3 Units  
Prerequisite(s): ME 105, ME 116  
Term Typically Offered: Fall, Spring  
Fundamentals of design and application of industrial robotics. Manipulator kinematics, trajectory planning and controller design, design of end effectors and actuators, sensors, programming languages, and machine vision. Applications in manufacturing, approach to implementing robotics, economic analysis for robotics. Lecture two hours; laboratory three hours.

ME 171. Modeling and Simulation of Mechatronics and Control Systems.  3 Units  
Prerequisite(s): ENGR 110, ME 105.  
Term Typically Offered: Fall, Spring, Summer  
Computer modeling and mathematical representation of mechanical, electrical, hydraulic, thermal, and electronic systems or combinations of these. Development of system design criteria and solutions using computer simulation. Use of state of the art automated modeling and simulation methods to build models of multi-energy mechatronics and control systems. Vibration concepts, applied, natural frequencies, eigenvectors, and solution of differential equations using computer simulation. Introduction to state variable feedback control systems. A design project is required.

ME 172. Control System Design.  3 Units  
Prerequisite(s): ME 171.  
Term Typically Offered: Fall, Spring, Summer  
Use of mathematical models for the generation of equations of motion for mechanical and electrical systems. Evaluation of single and multiple degrees of freedom systems in the time and frequency domain. Topics include feedback control systems, Laplace transform, state space representation, transfer functions, error analysis, stability of control systems and system response. Automatic control system design using root locus and frequency response methods. Design of compensating controls using state of the art software and automation tools. Introduction to digital control.

ME 173. Applications of Finite Element Analysis.  3 Units  
Prerequisite(s): ENGR 112, ME 105.  
Term Typically Offered: Fall, Spring  

ME 176. Product Design & CAD.  3 Units  
Prerequisite(s): ENGR 6, ME 105 and ME 116.  
Term Typically Offered: Fall, Spring  
Digital product development using an integrated CAD system. Philosophy of parametric design. Component and assembly design, basic drawing creation, and simulations. Team product design investigating the effects of variations in geometry, dimensions, and material selection. Lecture two hours; laboratory three hours.
ME 177. Product Design and 3D Parametric Solid Modeling. 3 Units
Prerequisite(s): ENGR 6, ME 105 and ME 116.
Term Typically Offered: Fall, Spring

Introduction to Solid Modeling and its application to mechanical product design. Digital product development using 3D Parametric Solid Modeling tools. Also covers component and assembly design, basic drawing creation. Reverse design project engineering investigating the effects of variations in geometry, dimensions, and material selection. Lecture two hours; laboratory three hours.

ME 180. Mechanical Properties of Materials. 3 Units
Prerequisite(s): ENGR 112
Term Typically Offered: Fall, Spring, Summer

Principles of mechanical properties of metals, including strength under combined loads, fatigue, and fracture mechanics. Laboratory includes study of strengthening mechanisms, and principles of experimental stress analysis. Lecture two hours; Laboratory three hours.

ME 180W. Mechanical Properties of Materials Workshop. 1 Unit
Corequisite(s): ME 180.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of mechanical properties of materials to enhance students' understanding of subject matter.
Credit/No Credit

ME 182. Introduction to Composite Materials. 3 Units
Prerequisite(s): ME 180.
Term Typically Offered: Fall, Spring

Properties, mechanics, and applications of anisotropic fiber-reinforced materials with an emphasis on the considerations and methods used in the design of composite structures.

ME 183. Materials Selection in Engineering Design. 3 Units
Prerequisite(s): ENGR 45 and ME 116. ME 116 may be taken concurrently.
Term Typically Offered: Fall, Spring

Quantitative treatment of materials selection for engineering applications. Discussion of the relationship between design parameters and materials properties. Emphasis on the influence of processing and fabrication on the properties of metals, ceramics, polymers and composites as related to the overall design process. Sustainability, Eco-Design, and manufacturability considerations.

ME 184. Corrosion and Wear. 3 Units
Prerequisite(s): ME 180.
Term Typically Offered: Fall, Spring

Introduction to the phenomena of corrosion and wear, including the electro-mechanical bases of corrosion, examples of corrosion of iron, steel and stainless steels, and prevention of corrosion. Fundamentals of wear are covered including effects of loads, material properties, and lubrication on wear rates.

ME 186. Fracture Mechanics in Engineering Design. 3 Units
Prerequisite(s): ME 180.
Term Typically Offered: Fall, Spring

Fracture mechanics approach to mechanical design; role of microstructure in fracture toughness and embrittlement; environmentally-induced cracking under monotonic and fatigue loads; laboratory techniques; service failures in various industries and failure mechanisms.
ME 196B. Engineering Systems Approach to Product Design. 2 Units
Prerequisite(s): ME 116
Term Typically Offered: Fall, Spring

Study of product design process and formal design methodologies. Various topics in product and system design including creativity, visualizations and communications, human factors, design for X methodology decision science, economics, product design and robust quality design.

ME 196C. Computer Programming for Mechanical Engineering Applications. 2 Units
Prerequisite(s): ME 105
Term Typically Offered: Fall, Spring

Computer programming languages such as C/C++, Java, Processing, and their applications to engineering problem solving using computer graphics, simulations, and physical prototyping. Programming computer communications with microprocessors for controlling sensors and motors.

ME 196D. Ground Vehicle Aerodynamics. 3 Units
Prerequisite(s): ENGR 132
Term Typically Offered: Fall, Spring

Fundamental and applied subjects of aerodynamics for ground vehicle design and performance including flow features, aerodynamic forces, drag reduction strategies, and different methodologies for evaluation of aerodynamic forces and vehicle design. Numerical modeling approaches with experience of running a commercial computational fluid dynamics program. Units: 3 Units (2 Unit Lecture and 1 Unit Lab)

ME 196E. Vehicle Safety and Crash Reconstruction. 3 Units
Term Typically Offered: Fall, Spring

Study of forensic engineering using state of the art technology in vehicles that contribute to passenger safety and stability. Application of principles of dynamics for forensic investigation and reconstruction of vehicle collisions. Study of seat belts, airbags, and electrohydraulic stabilizers. Study of the Event Data Recorders (EDRs), data analysis and verification with real cases using classical reconstruction techniques, and the use of computer simulations in two and three dimensions.

ME 196F. Materials Selection in Engineering Design. 3 Units
Prerequisite(s): ENGR 45 and ME 116. ME 116 may be taken concurrently.
Term Typically Offered: Fall, Spring

Quantitative treatment of materials selection for engineering applications. Discussion of the relationship between design parameters and materials properties. Emphasis on the influence of processing and fabrication on the properties of metals, ceramics, polymers and composites as related to the overall design process. Sustainability, Eco-Design, and manufacturability considerations.

ME 196G. Air Resources Engineering. 2 Units
Prerequisite(s): ENGR 124 and ENGR 132. ENGR 132 may be taken concurrently.

Air quality standards. Stationary and transportation emission sources. Chemical and physical interactions of air pollutants, including greenhouse gases, with the atmosphere. Introduction to air quality modeling, including atmospheric temperature effects due to longwave thermal radiation. Air Quality measurement. Emission control strategies and design. Air resources economics and policy.

ME 196H. Engineering Research Methodology and Communication for Undergraduate Students. 3 Units
Prerequisite(s): ME 108
Term Typically Offered: Fall, Spring, Summer

This course will prepare students for engineering research by introducing them to how to identify, plan, conduct, and present a research project as well as research methods, literature review process, research ethics, writing proposal, writing technical reports, and oral and poster research presentations. The students will be conducting an independent supervised engineering research on an agreed-upon research project. They will refine their communication skills by working one-on-one with the instructor to present their research in a professional setting.

ME 196Q. Ceramic Materials. 3 Units
Prerequisite(s): ENGR 112
Term Typically Offered: Fall, Spring

Fundamentals of structure, processing and properties of engineering ceramics with an emphasis on the relationships between them. Industrial applications for ceramic and glass components along with the processing and materials selection options available for a given material and application. Topics covered include common ceramic structures, thermal and physical properties of ceramics, powder processing, creep resistance and toughening mechanisms, electronic properties of ceramics, and glass forming.

ME 196R. Fundamentals of Physical Metallurgy and Materials. 3 Units
Prerequisite(s): ENGR 112 or equivalent course.
Term Typically Offered: Fall, Spring

Fundamentals of structure, processing and properties of metals and metal alloys with emphasis on relationships between them. Thermodynamics and kinetics of common phase transformations and resulting microstructures and mechanical properties. Slip mechanisms in single crystals, and metallic alloy strengthening mechanisms including grain size, solute, precipitation, cold-work, and martensite. Specific heat treatment and mechanical processing procedures for steel and aluminum alloys as well as application of these processes to other alloy systems.

ME 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work. Admission requires approval of an instructor and the student's advisor. May be repeated for credit.
Credit/No Credit

ME 206. Stochastic Modeling for Engineers. 3 Units
Prerequisite(s): MATH 45 or equivalent.
Term Typically Offered: Fall, Spring

Fundamentals and applications of stochastic processes for engineers, including a review of engineering statistics, autoregression moving average (ARMA) models, characteristics of ARMA models, ARMA modeling and forecasting, and transformation from discrete models to continuous models. Applications of stochastic processes in engineering field, e.g., precision manufacturing, monitoring and diagnosis of machines, tools, and processes, system identification, vibrations, and statistical process control (SPC).
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Term Typically Offered</th>
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<tr>
<td>ME 209</td>
<td>Research Methodology</td>
<td>2</td>
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<td>Fall, Spring</td>
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<tr>
<td>ME 233</td>
<td>Intelligent Product Design and Manufacturing</td>
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<td>ME 105, ME 138.</td>
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<td>ME 236</td>
<td>Computer Controlled Manufacturing Processes</td>
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<td>ME 237</td>
<td>Digital Control of Manufacturing Processes</td>
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<td>ME 238</td>
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<td>ME 240</td>
<td>Mechanical Design &amp; Failure Analysis</td>
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<td>ME 241</td>
<td>Optimum Mechanical Design</td>
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<tr>
<td>ME 243</td>
<td>Accident Biomechanics Reconstruction</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<tr>
<td>ME 250</td>
<td>Heat Transfer: Conduction</td>
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<tr>
<td>ME 251</td>
<td>Heat Transfer: Convection</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<tr>
<td>ME 252</td>
<td>Heat Transfer: Radiation</td>
<td>3</td>
<td>Term Typically Offered: Fall, Spring</td>
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</table>

Applications of pattern recognition in automated inspection. Quality including the use of coordinate measuring machines; system considerations and sensor technology in automated visual inspection; applications of pattern recognition in automated inspection.

Advanced multidisciplinary design analysis, finite element modeling, computer simulations, and statistical methods to increase product safety and reduce product liability. Investigate and recreate cases of failures of machines, vehicles, structures and assemblies under dynamic or static loads or material failures using current software tools. Design with safety considerations. Use of two and three-dimensional models to study failures. Use of the theory of reliability and forensic engineering to increase product safety.

Mathematical methods of optimum design using linear and non-linear optimization; constrained and unconstrained optimum design. Optimization of mechanical elements and assemblies to meet design requirements, material characteristics and geometry. Numerical methods and computer usage in optimal design. Application of these principles to realistic design problems.

Study of the interaction of the human body kinematics and dynamic biomechanics in accidents involving the workplace, activities and vehicles. Impact injury mechanisms, response of the human body using computer models and software analysis tools. Biomechanical response to impact, and tolerance levels. Human factors that influence the biomechanical reactions of people with their vehicles and the environment. Photographic and video analysis, computer graphics, and computer simulations. Forensic engineering to determine the dynamic forces that cause injury in different situations.


Analyzes convective heat and mass transfer. Development of the Navier-Stokes and energy equations for two-dimensional flows. Boundary layer theory and numerical techniques in solving convection problems. Analyzes turbulence, transport by Reynold's stresses and Prandtl's mixing length theory.

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<tr>
<td>ME 253</td>
<td>Advanced Fluid Mechanics.</td>
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<td>ME 254</td>
<td>Advanced Heat Transfer.</td>
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<td>Fall, Spring</td>
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<tr>
<td>ME 255</td>
<td>Mechanics and Thermodynamics of Compressible Flow.</td>
<td>3</td>
<td>ENGR 201 or ENGR 202; ENGR 201 or ENGR 202 may be taken concurrently.</td>
<td>Fall, Spring</td>
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<tr>
<td>ME 257</td>
<td>Advanced Thermodynamics.</td>
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<td>ME 258</td>
<td>Analysis of Aircraft Structures.</td>
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<td>ENGR 132, ME 105 and ME 126.</td>
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<tr>
<td>ME 259</td>
<td>Introduction to Computational Fluid Dynamics.</td>
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<td>ENGR 132, ME 105 and ME 126.</td>
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<tr>
<td>ME 270</td>
<td>Advanced Computer-Aided Design of Dynamic Systems.</td>
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<td>ME 114 or ME 171.</td>
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<tr>
<td>ME 272</td>
<td>Finite Element Modeling in Computer-Aided Design.</td>
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<td>ME 105, ME 173.</td>
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<tr>
<td>ME 273</td>
<td>Multibody Dynamics of Rigid and Flexible Systems.</td>
<td>3</td>
<td>Graduate standing.</td>
<td>Fall, Spring</td>
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<tr>
<td>ME 274</td>
<td>Introduction to Flight Dynamics.</td>
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<td>MATH 45, ENGR 110.</td>
<td>Fall, Spring</td>
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<tr>
<td>ME 275</td>
<td>Analysis of Aircraft Structures.</td>
<td>3</td>
<td>Graduate standing.</td>
<td>Fall, Spring</td>
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<tr>
<td>ME 276</td>
<td>Advanced Vibration Theory.</td>
<td>3</td>
<td>ME 114, ME 171, or CE 166.</td>
<td>Fall, Spring</td>
<td></td>
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<tr>
<td>ME 278</td>
<td>Space Systems Engineering Management.</td>
<td>3</td>
<td>ENGR 110.</td>
<td>Fall, Spring</td>
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</table>

Analytical and numerical analysis of Navier-Stokes equations for laminar flow; stability of laminar flow and its transition to turbulence. Analyzes stream functions and the velocity potential, and vorticity dynamics. The mathematical analysis of incompressible turbulent flows; development of Reynolds stress equations, turbulent boundary layer equations, turbulent flow in pipes and channels, and turbulent jets and wakes.

Advanced topics in heat transfer including analytical and numerical solutions to heat conduction equations in both the steady and unsteady state; use of approximate and analytical techniques for the prediction of convective heat transfer in laminar and turbulent flows, heat transfer in high-velocity flows; analysis of the nature of thermal radiation and radiative heat transfer in enclosures.

Application of the laws of fluid mechanics and thermodynamics to problems of compressible flow in two and three dimensions; small perturbation theory, hodograph method and similarity rules for subsonic flow. Method of characteristics, shock wave analysis for steady, unsteady and supersonic, one-dimensional flows.

Advanced topics in thermodynamics including applications of fundamental postulates to chemical, mechanical, magnetic and electric systems, theory of fluctuations, and irreversible thermodynamics.

Fundamentals of computational fluid dynamics, modeling of physical processes, including the fluid flow, heat and mass transfer, and computer skills. Basic concepts of numerical analysis using computer, including the solutions of ordinary and partial differential equations. Basic hands-on experience on using commercial computational fluid dynamics software packages.


Systems Engineering approach to plan and direct engineering projects. Emphasizes systems engineering process, requirement design fundamentals, subsystem fundamentals, trade studies, integration, technical reviews, case studies and ethics. Space exploration used as an example; skills applicable to any engineering project. Project-orientated course to plan the design of space and ground vehicles, satellites, airplanes and multidisciplinary subsystems.
ME 280. Advanced Mechanical Properties of Materials. 3 Units
Prerequisite(s): ME 180
Term Typically Offered: Fall, Spring

Mechanical properties of materials, with special attention to dislocations/defects and deformation and fracture control mechanisms. Mechanical properties of conventional engineering materials as well as advanced materials such as nanostructured materials are considered. Effects of defects on mechanical behavior at ambient and elevated temperature are discussed with attention given to strengthening mechanisms, creep, fatigue and fracture.

ME 285. Materials for Extreme Environments. 3 Units
Prerequisite(s): ME 180 or PHYS 110
Term Typically Offered: Fall, Spring

Comprehensive study of material applications in extreme environments, with special attention to mechanical, thermal and electronic behavior. Extreme temperature, pressure, corrosive or toxic environments and high rate deformation are considered. Currently available materials as well as emerging materials are explored for specific applications such as undersea, outer space, ballistic, nuclear, combustion, and other extreme application arenas.

ME 295. Fieldwork. 1 - 3 Units
Prerequisite(s): Permission of Graduate Coordinator or Department Chair.
Term Typically Offered: Fall, Spring

Supervised employment in industry or government that provides practical work experience. Requires satisfactory completion of the work assignment and a written report.

Note: Units may not be applied toward meeting the 30-unit requirement of the degree.

Credit/No Credit

ME 296L. Creative Engineering Design for Quality Products. 3 Units
Prerequisite(s): ME 138 and ME 180.
Term Typically Offered: Fall, Spring

Introduction to analytical and systematic design methodologies in creative and quality product design. Topics include product design process, creative conceptual design tools such as axiomatic design, theory of inventive problem solving (TRIZ), and engineering decision making. Quality product design including design of experiments, robust design techniques, and design optimization. Assignments include application of these principals to solving open-ended design problems using computing tools. Two hour lecture; Three hour laboratory.

ME 296M. Space Mission Design and Analyses. 3 Units
Term Typically Offered: Fall, Spring

This course examines the methods of systems design and analyses required to design and optimize the space mission over its life cycle. The process of optimization covers all the major elements of a space mission such as the ground systems, launch vehicles, spacecraft/payload, space environment, in-orbit operation and maintenance, and end-of-life disposal. The optimization of the overall mission must balance between performance, cost and reliability of all the major elements.

ME 296O. Advanced Heat Transfer. 3 Units
Prerequisite(s): ME 126 and ENGR 202.
Corequisite(s): ENGR 202.
Term Typically Offered: Fall, Spring

Advanced topics in heat transfer including analytical and numerical solutions to heat conduction equations in both the steady and unsteady state; use of approximate and analytical techniques for the prediction of convective heat transfer in laminar and turbulent flows, heat transfer in high-velocity flows; analysis of the nature of thermal radiation and radiative heat transfer in enclosures.

ME 296P. Advanced Dynamics. 3 Units
Prerequisite(s): Graduate Standing
Term Typically Offered: Fall, Spring


ME 296Q. Advanced Solid Modeling. 3 Units
Prerequisite(s): Student must pass ME 116.
Term Typically Offered: Fall, Spring

Advanced topics in computer-aided design for mechanical product design. Reviews on fundamental part and assembly modeling, and engineering drawings. Advanced modeling topics such as surface modeling, top-down assembly, macros and API programming, manufacturing oriented design such as sheet metal, plastic and mold design.

ME 296S. Advanced CAD for Aerospace Applications. 3 Units
Term Typically Offered: Fall, Spring

Design of aerospace systems including profile definition, constraints, operations and visualizations, component design, transformation features, and insertions using advanced CAD software such as CATIA. Creation of complete assembly design including creation of product files, identifying, inserting and displacing components, constraining parts, numbering parts and scene creation. Specifics of sheet metal design for aerospace design including creation of flange, cut-out, joggle, holes, stampings and patterns.

ME 296U. Advanced Computer-Aided Product Design. 3 Units
Prerequisite(s): ENGR 6 and ME 116, or graduate-level status
Term Typically Offered: Fall, Spring

Advanced topics in computer-aided design and applications for mechanical product design. Reviews of fundamental parts, assembly modeling, and engineering drawings. Advanced modeling topics such as surface modeling, design for manufacturing, simulation-based design, top-down assembly, macros and API programming.
ME 296V. Advanced Control System Design. 3 Units
Prerequisite(s): ME 172
Design of Multi-Input/Multi-Output controllers using linear quadratic regulator method and advanced controls architectures. Architectures include Proportional, Proportional Integrator and Proportional Integrator Derivative (filter) schemes. The course also includes Digital Control, Optimal Control, Introduction to Guidance, Navigation and Control techniques.

ME 296W. Accident Biomechanics. 3 Units
Prerequisite(s): ENGR 110
Study of the interaction of human body kinematics and dynamic biomechanics in accidents involving human activities and vehicles. Impact injury mechanisms, response of the human body using computer models and software analysis tools. Biomechanical response to impact, and tolerance levels. Human factors that influence the biomechanical reactions of people with their vehicles and the environment. Photographic and video analysis, computer graphics, and computer simulations. Forensic engineering to determine the dynamic forces that cause injury in different situations.

ME 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Any properly qualified student who wishes to pursue a problem of his/her own choice may do so if the proposed subject is acceptable to the faculty member with whom he/she works and to his/her advisor.
Credit/No Credit

ME 500. Master’s Thesis. 1 - 6 Units
Prerequisite(s): Open to students who have advanced to candidacy and have secured approval of a Thesis proposal form one full semester prior to registration
Term Typically Offered: Fall, Spring
Completion of a thesis. Credit given upon successful completion of a Master’s Thesis (4 - 6 units; maximum 6 units).
Note: Course may be repeated for no more than 6 units total.

Blended BS/MS in Mechanical Engineering Program
Total units required for Blended BS/MS: 150

Program Description
The Blended BS/MS program in Mechanical Engineering allows qualified students in the BS degree program to simultaneously complete requirements for both the BS and MS degree. Students in the program can progress from undergraduate to graduate status without applying for admission through the Office of Graduate Studies.

Eligibility Requirements
Students majoring in Mechanical Engineering will be eligible to apply to the program if they meet the following criteria:

- Completion of the WPJ or equivalent, eligible for WI course, and completion of the prerequisites for ME 190 (Project Engineering I);
- Have not yet enrolled in ME 190;
- Are not double majoring; and
- Have a minimum GPA in major courses of 3.00.

Application Procedures
Students interested in applying to the Blended BS/MS Program should follow the following procedure:

- Prior to the tenth week during the semester before taking ME 190, students must complete the department application.
- Applicants do not need to pay the graduate program application fee.
- Electronic applications will be submitted to the ME Graduate Coordinator for review.
- Upon acceptance to the program, the department will notify the Registrar’s Office and the Office of Graduate Studies in the change in status of the student.

Program of Study
In the two semesters of their senior year, students admitted to the program will be required to take the following graduate classes:

- ME 209 Research Methodology (2 units)
- Two graduate-level courses (200 level) in Mechanical Engineering selected in consultation with the Graduate Coordinator (3 units each)

When the students have completed the core courses for the undergraduate program and have completed the 8 units of graduate courses listed above, they will be converted to graduate status and the BS degree can be awarded. Students will be eligible to receive the MS degree when the remaining requirements for the graduate degree are completed (i.e., the requirements for the MS degree are the same whether taken separately or blended).

During their first semester in graduate status, students will be required to submit a thesis proposal to the ME department and to apply for advancement to candidacy.

Opt-Out Option
Students who wish to opt out after completing all other BS major requirements except the 6 units of ME electives may do so and the two graduate courses will count as two of the electives required in the normal undergraduate program. The total number of units taken for the BS degree will be the same (122 units) as for students who are not in the blended program.

BS in Mechanical Engineering
Units required for Pre-Major: 42 plus GE/GR courses
Units required for Major: 50 plus GE/GR courses
Total units required for BS: 122

Program Description
Sequence of Study: Courses taken in the Freshman and Sophomore years, either at Sacramento State, or at a Community College or transfer college, directly contribute to the upper division (Junior-Senior) program. For example, upper division work in Computer-Aided Design (CAD) develops skills introduced in freshman graphics and CAD courses; upper division analytical courses depend on the freshman and sophomore calculus and physics courses. Communication skills learned in the lower division are developed through the writing of reports and oral presentations.

Mechanical Engineering design involves far more than solving the types of problems found in chemistry, physics, and calculus courses; design work involves a large measure of analytical and creative work.
The principles of mathematics and science are extremely useful when developing a detailed design solution but contribute little to the critical issues of correctly defining the problem, specifying the solution, and locating and organizing needed information. In addition, the design cannot violate fundamental physical laws and must be built from real materials using real manufacturing methods at a reasonable cost while satisfying safety and environmental factors.

The work in the four semester design-project sequence and other courses addresses these issues by including the study of design methods, procedures for developing a design solution from concept through a fully-developed design, and construction of a prototype. The courses in mechanics, thermodynamics, manufacturing, and materials complement the design sequence. The design work includes a mixture of problem and project work in individual courses; some of the course-level projects are team projects to help the student develop the ability to efficiently and effectively work with other engineers making decisions, use the abilities of different colleagues, and distribute the work of large projects. The design sequence includes classical as well as computer aided design and analysis techniques. The work in the two-semester, capstone and senior project sequence involves team effort on a significant design problem. Students interested in furthering their skills in analysis, including finite element analysis, and dynamic modeling of systems, can choose from a number of elective courses which rely heavily on computer methods.

Advising: Each student has a faculty advisor who meets with him/her at least once a semester to discuss academic progress, plan the following semester, explain University requirements, and answer questions about the Mechanical Engineering program.

Note: Students graduating with a BS in Mechanical Engineering will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Minimum Grade Requirement
A grade of "C-" or better is required in all courses applied to a Mechanical Engineering major.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1E</td>
<td>General Chemistry for Engineering</td>
<td>4</td>
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<tr>
<td>ENGR 6</td>
<td>Engineering Graphics and CADD (Computer Aided Drafting and Design) ²</td>
<td>3</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I ²</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Select one General Education course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>First Semester Sophomore Year</td>
<td></td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II ²</td>
<td>4</td>
</tr>
<tr>
<td>ME 37</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics ²</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Select one General Education course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Second Semester Sophomore Year</td>
<td></td>
</tr>
<tr>
<td>ENGR 45</td>
<td>Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATH 32</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism ²</td>
<td>4</td>
</tr>
<tr>
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<td>Select one General Education course</td>
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Select one General Education course

Select two of the following: ⁴

<table>
<thead>
<tr>
<th>Code</th>
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<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ME 114</td>
<td>Vibrations</td>
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</tr>
<tr>
<td>ME 115</td>
<td>Dynamics of Machinery and Multi-Body Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 116</td>
<td>Geothermal and Bioenergy Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 117</td>
<td>Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 118</td>
<td>Wind, Hydro and Ocean Energy</td>
<td>3</td>
</tr>
<tr>
<td>ME 119</td>
<td>Numerical Control Programming</td>
<td>3</td>
</tr>
<tr>
<td>ME 120</td>
<td>Product Design for Manufacturing and Automation</td>
<td>3</td>
</tr>
<tr>
<td>ME 121</td>
<td>Introduction to Motors and Actuators</td>
<td>3</td>
</tr>
<tr>
<td>ME 122</td>
<td>Introduction to Tolerance Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ME 123</td>
<td>Vehicle Dynamics and Design</td>
<td>3</td>
</tr>
<tr>
<td>ME 124</td>
<td>Fundamentals of Combustion</td>
<td>3</td>
</tr>
<tr>
<td>ME 125</td>
<td>Turbomachinery Design</td>
<td>3</td>
</tr>
<tr>
<td>ME 126</td>
<td>Thermodynamics of Combustion Engines</td>
<td>3</td>
</tr>
<tr>
<td>ME 127</td>
<td>Alternative Energy Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 128</td>
<td>Gas Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 129</td>
<td>Heating and Air Conditioning Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 130</td>
<td>Solar Energy Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ME 131</td>
<td>High Efficiency HVAC</td>
<td>3</td>
</tr>
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</table>

Required Upper Division Courses (Major) (60 Units) ³

<table>
<thead>
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<tr>
<td>ME 110</td>
<td>Analytic Mechanics - Dynamics</td>
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</tr>
<tr>
<td>ME 111</td>
<td>Mechanics Of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ME 112</td>
<td>Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 113</td>
<td>Applications of Programming in Mechanical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ME 114</td>
<td>Professional Topics for Mechanical Engineers</td>
<td>2</td>
</tr>
<tr>
<td>ME 115</td>
<td>Machinery Design I</td>
<td>2</td>
</tr>
<tr>
<td>ME 116</td>
<td>Fluid Mechanics for Mechanical Engineers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Second Semester Junior Year</td>
<td></td>
</tr>
<tr>
<td>ME 117</td>
<td>Machinery Design II</td>
<td>2</td>
</tr>
<tr>
<td>ME 118</td>
<td>Concurrent Product and Process Design</td>
<td>3</td>
</tr>
<tr>
<td>ME 119</td>
<td>Modeling and Simulation of Mechatronics and Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 120</td>
<td>Mechanical Properties of Materials</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one General Education course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>First Semester Senior Year</td>
<td></td>
</tr>
<tr>
<td>ME 121</td>
<td>Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>ME 122</td>
<td>Thermal-Fluid Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 123</td>
<td>Control System Design</td>
<td>3</td>
</tr>
<tr>
<td>ME 124</td>
<td>Project Engineering I ²</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one General Education course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Second Semester Senior Year</td>
<td></td>
</tr>
<tr>
<td>ME 125</td>
<td>Project Engineering II ²</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Select two General Education courses</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select two of the following: ⁴</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>ME 114</td>
<td>Vibrations</td>
</tr>
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<td></td>
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<td></td>
<td>ME 116</td>
<td>Solar Thermal and Energy Storage Systems</td>
</tr>
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<td>Geothermal and Bioenergy Systems</td>
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<td></td>
<td>ME 130</td>
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</tr>
<tr>
<td></td>
<td>ME 131</td>
<td>Solar Energy Engineering</td>
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</table>
**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>0</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area Course C</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area Course C - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
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<tr>
<td>Area D</td>
<td>The Individual and Society (9 Units)</td>
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<tr>
<td>Area D</td>
<td>Course</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Lower division requirements are essentially common for Civil, Electrical and Electronic, and Mechanical Engineering. Note: Courses are listed in a recommended sequence, and may be interchanged among semesters to accommodate the student's schedule, as long as prerequisites are met.

2. Course also satisfies General Education (GE)/Graduation Requirement.

3. Students are allowed to enroll in upper division Engineering or Mechanical Engineering courses with the Department's approval. Pre-Major students must complete a Change of Major form and submit it to the Mechanical Engineering Department Office during the application filing period.

4. An upper division course in Engineering, Mathematics, and Science may be selected with prior approval of the student's advisor. Note: All elective courses are NOT offered every semester. The Mechanical Engineering Department Office maintains a listing showing when particular courses will be offered.

**Graduation Requirements**

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies GE.

<table>
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</tr>
</thead>
<tbody>
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<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>0</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
</tbody>
</table>

**MS in Mechanical Engineering**

**Total units required for MS: 30**

**Program Description**

The Master of Science program in Mechanical Engineering prepares students for leadership in the practice of Mechanical Engineering. The program includes the study of scientific and technical principles underlying modern engineering practice and advanced mathematical techniques needed for their application in research and design.
Specializations
Four areas are offered as specializations: Design and Dynamic Systems; Manufacturing and Material Engineering; Thermal and Fluids Systems; and Aerospace Systems. In each area there are specific course requirements to be met; all four specializations encompass Engineering Design.

Elective courses allow for the development of each student's particular interests. An individual's applied research or design study, presented in a Master's thesis or project, complements the formal class work and completes the program.

Admission Requirements
Admission as a classified graduate student in Mechanical Engineering requires:

- a Bachelor of Science degree in Mechanical Engineering, or equivalent;
- a minimum GPA of 3.0 in the last 60 semester or 90 quarter units of BS Degree; and
- English Language Requirement (for foreign students or domestic students with foreign documents).

Applicants who do not meet the three admission requirements listed above because they have a Baccalaureate degree in a field other than Mechanical Engineering, or equivalent, and/or because their GPA is below 3.0 but above 2.5 in the last 60 semester or 90 quarter units of BS Degree, may be admitted with conditionally classified status. Any deficiencies will be noted in a written response to the applicant.

If a student lacks some of the undergraduate courses needed for successful completion of the graduate program, such prerequisite courses must be taken before the student can be fully accepted to the program.

Admission Procedures
Applications are accepted as long as space for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- Online application for admission (CalStateApply or equivalent);
- one set of official transcripts from all colleges and universities attended other than Sacramento State; and
- English Language Requirement (for foreign students or domestic students with foreign documents).

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://csus.edu/gradstudies/).

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed.

Minimum Units and Grade Requirement for the Degree
Units Required for the MS: 30

Minimum Cumulative GPA: 3.0. Up to six units of grade "C" or better may be credited toward fulfillment of the requirements for the master's degree. All other graded units must be completed with a grade of "B" or better. Grades of "C-, D-, F-, WU-, I-, W" and "NC" may not be used to fulfill any MS degree requirements.

Advancement to Candidacy
Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including ME 209 (2 units) and at least 7 other units at the 200 level. Note: For our program completion of ME 209 with a grade of "B" or above satisfies the Graduate Writing Assessment Requirement (GWAR); and
- obtained approval of a thesis/project topic using the Department of Mechanical Engineering Master's Thesis/Project Approval Form.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a faculty advisor. After approval by the Mechanical Engineering Graduate Coordinator, the form is then returned to the Office of Graduate Studies for approval.

Notes:
- The student cannot register for the culminating experience (ME 500), until he/she has been advanced to candidacy. One full semester prior to registering for (ME 500), the student must submit a proposed topic from to the Department office.
- The Thesis Committee consists of the student's Thesis Advisor, who is the Chairperson of the Thesis Committee, and another faculty member who serves as the second advisor.
- Advising: The Department of Mechanical Engineering has a Graduate Coordinator who is the liaison between each graduate student and the Office of Graduate Studies. After Advancing to Candidacy (see above), the student proceeds with research for the thesis. Guidance of this phase of study is done by a faculty member with expertise in the particular thesis topic.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>ENGR 201</td>
<td>Engineering Analysis I</td>
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</tr>
<tr>
<td>ENGR 202</td>
<td>Engineering Analysis II</td>
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</tr>
<tr>
<td>or ME 206</td>
<td>Stochastic Modeling for Engineers</td>
<td></td>
</tr>
<tr>
<td>ME 209</td>
<td>Research Methodology</td>
<td>2</td>
</tr>
</tbody>
</table>

Additional Requirements for Suggested Specializations (9 Units)
Select at least three courses with advisor approval to develop a focus area of study

Aerospace Systems
Design and Dynamic Systems
Manufacturing and Materials Engineering
Thermal and Fluid Systems

Electives (7-9 Units)
Select 7-9 units

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
</tr>
</tbody>
</table>

Culminating Requirement (4-6 Units)
Select 4-6 units

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

Total Units
30-32
Selected in consultation with advisor. May include two undergraduate courses.

2 Master's Thesis (4-6 units) program consists of the following minimum requirements:
Core courses (8 units)
Specialty Area (9 units)
Electives (7-9 units)
ME 500 (4-6 units)

**Thesis Defense/Presentation:** The Thesis must be orally presented and defended, approved by the student’s Thesis Committee and approved by the ME Graduate Coordinator or the Department Chair prior to submittal of the thesis to the Office of Graduate Studies.

**Additional Requirements for Suggested Specializations**

**Note:** With advisor approval select at least three courses to develop a focus area of study.

**Specialization - Aerospace Systems**

This area focuses on the design of aerospace systems. Classical and computer-aided techniques are studied to provide a strong background in mechanical design theory and practice. Industrial software tools are used to perform finite-element modeling, dynamic system analysis, and optimum design.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 241</td>
<td>Optimum Mechanical Design</td>
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</tr>
<tr>
<td>ME 253</td>
<td>Advanced Fluid Mechanics</td>
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</tr>
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<td>ME 259</td>
<td>Introduction to Computational Fluid Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 270</td>
<td>Advanced Computer-Aided Design of Dynamic Systems</td>
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</tr>
<tr>
<td>ME 272</td>
<td>Finite Element Modeling in Computer-Aided Design</td>
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</tr>
<tr>
<td>ME 274</td>
<td>Introduction to Flight Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 275</td>
<td>Analysis of Aircraft Structures</td>
<td>3</td>
</tr>
<tr>
<td>ME 278</td>
<td>Space Systems Engineering Management</td>
<td>3</td>
</tr>
<tr>
<td>ME 285</td>
<td>Materials for Extreme Environments</td>
<td>3</td>
</tr>
</tbody>
</table>

Or other courses selected in consultation with an advisor.

**Specialization - Manufacturing and Materials Engineering**

This area includes the use of mathematical methods as well as current computer techniques to solve problems encountered in planning, designing, and/or controlling manufacturing systems. Study of the techniques for product design and Manufacturing, Neural Networks, Artificial Intelligence, and Industrial Management is conducted. This area also focuses on the design of products and on the manufacturing systems needed for their production. Classical and computer-aided techniques are studied to provide a strong background in mechanical design theory and practice. Industrial software tools are used to perform finite-element modeling, dynamic system analysis, and optimum design.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 233</td>
<td>Intelligent Product Design and Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>ME 236</td>
<td>Computer Controlled Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>ME 237</td>
<td>Digital Control of Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>ME 238</td>
<td>Automated Inspection</td>
<td>3</td>
</tr>
<tr>
<td>ME 240</td>
<td>Mechanical Design &amp; Failure Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ME 280</td>
<td>Advanced Mechanical Properties of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ME 285</td>
<td>Materials for Extreme Environments</td>
<td>3</td>
</tr>
</tbody>
</table>

Or other courses selected in consultation with an advisor.

**Specialization - Thermal and Fluid Systems**

This area concentrates on the principles of thermodynamics, heat transfer, and fluid mechanics as applied to such products as heat exchangers, internal combustion engines, gas turbines, and solar energy systems. Courses make use of computational fluid dynamics (CFD) and finite element analysis (FEA) software tools to explore the behavior of a variety of thermal energy conversion systems and components. In this area of interest, innovative system design is becoming more important as progress is made toward increasing the efficiency of thermal systems while reducing the adverse effects on the environment.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 253</td>
<td>Advanced Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ME 255</td>
<td>Advanced Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>ME 256</td>
<td>Mechanics and Thermodynamics of Compressible Flow</td>
<td>3</td>
</tr>
<tr>
<td>ME 258</td>
<td>Advanced Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 259</td>
<td>Introduction to Computational Fluid Dynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

Or other courses selected in consultation with an advisor.

**College of Health and Human Services**

The **College of Health and Human Services** at Sacramento State has a long and proud history of providing the region with health and human services professionals that are leaders in the region through their innovation, engagement, and impact. The College plays important roles in addressing the workforce needs of the region, in community engagement, and in research that matters. With over 40,000 alumni from the College, chances are that if you interact with a nurse, a social worker, or a police officer in the region, they are a Sac State alum. With over 7,300 student majors, making it the largest college on campus, the programs offered in the College continue to be in high demand. The faculty and staff are
committed to student success, which is one of the primary values of our mission.

The College of Health and Human Services houses the Bachelor of Science in Health Science meta-degree program, and has eight academic units, including the Department of Communication Sciences and Disorders (including the Audiology Doctorate program), the Division of Criminal Justice, the Department of Kinesiology, the School of Nursing, the Department of Physical Therapy, the Department of Public Health, the Department of Recreation, Parks and Tourism Administration, and the Division of Social Work. Within each of these departments there are a number of programs for students to choose from: 15 of these programs are externally accredited by professional accrediting associations. In addition, the College is the home for seven centers including the Center for Health Practice, Policy & Research, the Student Success Center, ten community clinics, and the Law Enforcement Candidate Scholars (LECS) Program.

The College operates the Maryjane Rees Language, Speech and Hearing Center which treats over 950 clients each year with speech and hearing disorders. The College also operates the Center for African Peace and Conflict Resolution (CAPCR) which provides education and training, research, and direct services pertaining to mediation, negotiation, and arbitration. With the addition of new space in Folsom Hall, the College of Health and Human Services has established a Center for Health Practice, Policy & Research (CHPPR). This is the site of the College’s School of Nursing with, state-of-the-art teaching/research facilities including skills labs and a number of high-fidelity simulation labs. The Doctoral Program in Physical Therapy and the Department of Communication Science and Disorders have also moved into new research and teaching laboratories in Folsom Hall.

The College faculty are recognized for their expertise as teachers, scholars, and practitioners. They serve as professional role-models for students and are actively involved in the life of the surrounding community and their professional organizations. The College faculty and staff are also committed to the values of student success, community engagement, diversity and inclusion, leadership, professional ethics, excellence, social responsibility, and collaboration.

In summary, the College of Health and Human Services provides quality academic programs that educate and empower students, serve and enrich diverse communities, promotes well-being, and inform policy and best practices.

Departments/Programs
Programs of instruction leading to the following degrees offered by the College are listed in this catalog in separate sections.

- Communication Sciences and Disorders, BS, MS, AuD
- Criminal Justice, BS, Minor, MS
- Health Science, BS
- Kinesiology, BS programs, Minor, MS
- Nursing, BS, MS
- Physical Therapy, DPT
- Public Health, BS, MPH
- Recreation, Parks, and Tourism Administration, BS programs, Minors, MS, Certificates
- Social Work, BA, Minor, MSW

Contact Information
Mary Maguire, Interim Dean
Robert Pieretti, Interim Associate Dean
Greg Shaw, Associate Dean
Amanda Haddan, College Budget Analyst
Christine Kellermann, Administrative Analyst/Specialist
Katheryn Hughes, Administrative Support Coordinator II
Keala Kama, Administrative Support Coordinator II
Mai Her, Administrative Support Coordinator I
Jisel Noriega, Administrative Support Coordinator I
Carl Kelly, Information Technology Consultant
Andrew Stiffler, Information Technology Consultant

HHS Student Success Center:
Raquel Quirarte, Student Service Professional

For more information, visit the Web site for the College of Health & Human Services (https://www.csus.edu/college/health-human-services/).

HHS on Facebook (https://www.facebook.com/SacStateHHS/)
HHS on Instagram (http://www.instagram.com/SacStateHHS/)
HHS on Twitter (https://twitter.com/SacStateHHS/) Solano Hall 5002 (916) 278-7255

BS in Health Science
Units required for Major: 51-55
Total units required for BS: 120

Program Description
The Bachelor of Science program in Health Science prepares students for a variety of roles within the allied health professions. The curriculum integrates coursework from disciplines across the University to provide students with a broad foundation of knowledge and skills related to life sciences, social sciences, communications, health ecology, public service, ethical practice, and data analysis.

The curriculum is designed to provide students with the necessary prerequisite courses to pursue careers or training in clinical or non-clinical practice professions after graduation, such as Occupational Therapy, Nursing, Physician Assistance, or Public Health. The curriculum also prepares students to transition to clinical majors at Sacramento State if they wish. Students have the flexibility to select a program of study that suits their career goals within the allied health professions.

Note: Students graduating with a BS in Health Science will not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

Minimum Grade Requirement
All courses must be completed with at least a "C" grade.

Additional Information
Credit by Examination: A student who seeks course credit by examination is to enroll in the course to be challenged. No course may be challenged.
after the first two weeks of the semester. The instructor of the course will conduct an assessment of the student's readiness for the challenge for credit examination. Refer to Credit by Examination section of the Sacramento State Catalog.

**Advising:** It will be necessary to work closely with an advisor to complete the BS degree in a timely manner. Therefore, it is strongly recommended that all Health Science students consult with an advisor prior to enrollment for any course. This procedure should be followed each semester.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Lower Division Courses (13 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 25</td>
<td>Human Anatomy and Physiology I</td>
<td>8</td>
</tr>
<tr>
<td>&amp; BIO 26</td>
<td>Human Anatomy and Physiology II</td>
<td></td>
</tr>
<tr>
<td>CHEM 6A</td>
<td>Introduction to General Chemistry 1, 2</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM 1A</td>
<td>General Chemistry I</td>
<td></td>
</tr>
</tbody>
</table>

**Required Lower Division Electives**  5 - 8

Select two courses from the following Lower Division Electives: (5-8 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 10</td>
<td>Basic Biological Concepts 1</td>
<td></td>
</tr>
<tr>
<td>BIO 39</td>
<td>Microbiology for Allied Health Students</td>
<td></td>
</tr>
<tr>
<td>CHAD 30</td>
<td>Human Development</td>
<td></td>
</tr>
<tr>
<td>NUFD 10</td>
<td>Nutrition And Wellness 1</td>
<td></td>
</tr>
<tr>
<td>PSYC 2</td>
<td>Introductory Psychology 1</td>
<td></td>
</tr>
<tr>
<td>or SOC 1</td>
<td>Principles of Sociology</td>
<td></td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics 1</td>
<td></td>
</tr>
<tr>
<td>or STAT 10B</td>
<td>Introductory Statistics with Developmental Mathematics</td>
<td></td>
</tr>
<tr>
<td>NUFS 14</td>
<td>Pharmacology</td>
<td></td>
</tr>
</tbody>
</table>

**Required Upper Division Courses (15 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHS 196B</td>
<td>(Introduction to Health Science)</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 114</td>
<td>Human Ecology and Health 1</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 122</td>
<td>Health Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from the following courses on Aging: (3 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 100</td>
<td>Aging Issues in Contemporary America</td>
<td>3</td>
</tr>
<tr>
<td>GER 101</td>
<td>Older Adult Services and Strategies</td>
<td></td>
</tr>
<tr>
<td>GER 121</td>
<td>Strategies for Optimal Aging</td>
<td></td>
</tr>
<tr>
<td>GER 122</td>
<td>Interprofessional Approaches to Health Care in Older Adults</td>
<td></td>
</tr>
<tr>
<td>KINS 136</td>
<td>Sport And Aging</td>
<td></td>
</tr>
<tr>
<td>PUBH 150</td>
<td>Aging and Health</td>
<td></td>
</tr>
</tbody>
</table>

Select one course from the following courses on Ethical Practices: (3 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 102</td>
<td>Professional and Public Service Ethics 1</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 104</td>
<td>Bioethics 1</td>
<td></td>
</tr>
<tr>
<td>PHIL 105</td>
<td>Science and Human Values 1</td>
<td></td>
</tr>
<tr>
<td>PUBH 151</td>
<td>Introduction to the U.S. Healthcare System</td>
<td></td>
</tr>
</tbody>
</table>

**Required Health Science Electives**  18 - 19

Select six courses from the following elective courses: (18-19 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 104</td>
<td>Physiology of Human Reproduction</td>
<td></td>
</tr>
<tr>
<td>BIO 123</td>
<td>Neuroanatomy</td>
<td></td>
</tr>
<tr>
<td>BIO 130</td>
<td>Histology</td>
<td></td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
<td></td>
</tr>
<tr>
<td>BIO 140</td>
<td>Medical Microbiology and Emerging Infectious Diseases</td>
<td></td>
</tr>
<tr>
<td>COMS 161</td>
<td>Health Communication</td>
<td></td>
</tr>
<tr>
<td>GERO 103</td>
<td>Applied Care Management in Gerontological Practice</td>
<td></td>
</tr>
<tr>
<td>HHS 160</td>
<td>Senior Seminar: Health Science Careers, Policy, and Research</td>
<td></td>
</tr>
<tr>
<td>KINS 132</td>
<td>Planning, Designing and Managing a Fitness Center</td>
<td></td>
</tr>
<tr>
<td>KINS 139</td>
<td>Leadership and Communication</td>
<td></td>
</tr>
<tr>
<td>KINS 156</td>
<td>Care Of Athletic Injuries</td>
<td></td>
</tr>
<tr>
<td>NURS 165</td>
<td>Hospice and Palliative Nursing Care ♠</td>
<td></td>
</tr>
<tr>
<td>NURS 168</td>
<td>The Brain and Gender-Related Differences 1</td>
<td></td>
</tr>
<tr>
<td>NUFD 113</td>
<td>Nutrition And Metabolism</td>
<td></td>
</tr>
<tr>
<td>PHYS 182</td>
<td>Physics of Sports 1</td>
<td></td>
</tr>
<tr>
<td>PSYC 149</td>
<td>Psychology of Adolescence</td>
<td></td>
</tr>
<tr>
<td>PSYC 168</td>
<td>Abnormal Psychology</td>
<td></td>
</tr>
<tr>
<td>PUBH 100</td>
<td>Fundamentals of Safety and Health</td>
<td></td>
</tr>
<tr>
<td>PUBH 116</td>
<td>Public Health Policy, Management &amp; Administration</td>
<td></td>
</tr>
<tr>
<td>PUBH 124</td>
<td>Ethical Considerations in Public Health ✨</td>
<td></td>
</tr>
<tr>
<td>PUBH 130</td>
<td>Alcohol and Other Drugs</td>
<td></td>
</tr>
<tr>
<td>PUBH 134</td>
<td>Understanding Human Sexuality</td>
<td></td>
</tr>
<tr>
<td>NURS 160</td>
<td>Human Sexuality</td>
<td></td>
</tr>
<tr>
<td>RPTA 100</td>
<td>Recreation and Leisure Lifestyle Development</td>
<td></td>
</tr>
<tr>
<td>or RPTA 125</td>
<td>Leisure, the Individual, and Contemporary Society</td>
<td></td>
</tr>
<tr>
<td>RPTA 106</td>
<td>Introduction to Inclusive Recreation and Recreation Therapy</td>
<td></td>
</tr>
<tr>
<td>RPTA 165</td>
<td>Volunteer Management in Nonprofit, Service, or Community Organizations</td>
<td></td>
</tr>
<tr>
<td>RPTA 196E</td>
<td>The Science of Nature Engagement and Human Health &amp; Wellbeing (The Science of Nature Engagement and Human Health &amp; Wellbeing)</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**  51-55

1 Course also satisfies General Education (GE)/Graduation Requirement.

2 Any 4 or 5 unit lecture-based Chemistry course.

**Note:** Health Science courses depend upon concentration, permission of the faculty advisor, program coordinator, and department chair.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

| **Area B: Physical Universe and Its Life Forms (6 Units)** |       |

Select six courses from the following elective courses: (18-19 units)
**Graduation Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Graduation Requirements (required by CSU) (9 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B3)</td>
<td>3</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td><strong>Area C: Arts and Humanities (12 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2 - Area Course C</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Area D: The Individual and Society (6 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area D Course</td>
<td>Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td><strong>Area E: Understanding Personal Development (3 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area E Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Area F: Ethnic Studies (3 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area F Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td>39</td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).  
   **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online ([http://www.csus.edu/acad/](http://www.csus.edu/acad/)), by phone (916) 278-1000, or email (advising@csus.edu).

2. Required in Major; also satisfies GE.

**Communication Sciences and Disorders**

**College of Health and Human Services**

**Program Description**

The fields of Speech-Language Pathology and Audiology are concerned with disorders of speech, language, communication, swallowing, and hearing. A Speech-Language Pathologist is trained to diagnose and treat language, speech, swallowing and cognitive disorders. An Audiologist is trained to identify impairments and dysfunction of auditory, balance, and other related systems.

The Department offers a Bachelor of Science degree in Communication Sciences and Disorders and a Master of Science degree in Communication Sciences and Disorders. The Bachelor of Science degree provides a background in the theoretical and clinical foundations of Speech-Language Pathology and Audiology. The Master’s degree provides professional training for a career in Speech-Language Pathology. The Department also offers a Second Bachelor of Science degree in Communication Sciences and Disorders through the College of Continuing Education. The Doctor of Audiology Degree (Au.D.) prepares students for clinical practice as Audiologists.

Employment as a Speech-Language Pathologist in California requires both a Master’s degree and a credential or license. Completion of the Master’s degree provides the training necessary for students to qualify for the American Speech-Language-Hearing Association’s Certificate of Clinical Competence in Speech-Language Pathology, California State License as a Speech-Language Pathologist and the Speech-Language Pathology Services Credential for working as a Speech-Language Pathologist in the California public schools. The Department also prepares students to apply for the Special Class Authorization, an extension of the Speech-Language Pathology Services Credential, required to teach a classroom for children with language disorders. Employment as an Audiologist requires a clinical doctorate of Audiology (Au.D) and appropriate certification.

The broad, yet challenging, nature of the Bachelor’s degree in Communication Sciences and Disorders prepares students to apply for graduate study in the fields of speech-language pathology and audiology and for employment requiring a background in human development, communication, health, and education. Graduates have pursued further education and work in the fields of special education, counseling, and rehabilitation, as well as careers in the health insurance industry, disability law, career advising, and government health programs.
Degree Programs

BS in Communication Sciences and Disorders (p. 673)

Doctor of Audiology (Au.D.) (p. 675)

MS in Communication Sciences and Disorders (p. 678)

Accreditation

Communication Sciences and Disorders Master of Science (M.S.) Program

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges Senior College and University Commission (WSCUC), the Communication Sciences and Disorders Master of Science (M.S.) education program in Speech-Language Pathology at California State University, Sacramento is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association, 2200 Research Boulevard #310, Rockville, Maryland 20850, 800-498-2071 or 301-296-5700. Current period of 8 years beginning December 1, 2019 through November 30, 2027.

The Speech-Language Pathology Services Credential with or without Special Class Authorization is approved by the California Commission on Teacher Credentialing (CCTC)

Doctor of Audiology (Au.D.) Program

The Doctor of Audiology program has received approval from the CSU Chancellor’s Office and the Western Association of Schools and Colleges (WASC) Senior College and University Commission (WSCUC). In addition, the Accreditation Commission for Audiology Education (ACAIE) has granted the program “Developing Status” and the Doctor of Audiology (Au.D.) education program in audiology at California State University, Sacramento is a Candidate for Accreditation by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association, 2200 Research Boulevard #310, Rockville, Maryland 20850, 800-498-2071 or 301-296-5700. Candidacy is a “pre-accreditation” status with the CAA, awarded to developing or emerging programs for a maximum period of five years.

Notice to Students RE: Professional Licensure and Certification

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features

- Graduate students pursuing a degree in the Communication Sciences and Disorders Master of Science or Doctor of Audiology programs participate in supervised clinical practica through the campus-based Mary Jane Rees Language, Speech, and Hearing Center.
- Graduate practica in Communication Sciences and Disorders include three semesters of on-campus clinic followed by an internship in the public schools and an internship in local hospitals or other agencies. Upon completion of the Master’s degree, students will have acquired a variety of supervised clinical experiences totaling a minimum of 388 clock hours.
- Graduate practica in the Au.D. Program include at least three semesters of on-campus clinic, a variety of internships in the Sacramento area, and a full-time externship in the final year of the program.

Career Possibilities

Please note that most of the career possibilities listed below require additional education beyond the baccalaureate degree.

Speech-Language Pathology Assistant (SLPA) · Speech-Language Pathologist in medical, school and private practice settings · Speech-Language Pathologist with Special Class Authorization to teach a classroom of communicatively disabled children · Audiologist · Employment requiring a background in human development, communication, health, and education · Fields of audiology, special education, counseling, rehabilitation, the health insurance industry, disability law, career advising, hospital administration, school administration and government health programs.

Contact Information

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CSAD 101. Introduction to Communication Sciences and Disorders. 3 Units
Term Typically Offered: Fall, Spring
This survey course serves as an introduction to the field of communication sciences and disorders (CSAD; speech-language pathology and audiology) and serves three general groups of students: (1) undergraduate majors in CSAD, (2) undergraduate students considering a major in CSAD, and (3) students from related fields, such as education, nursing, health sciences, etc. Through the course, students will gain a broad understanding of clinical work and research in the field of communication sciences and disorders.

CSAD 110. Physics of Sound and Phonetics. 4 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, and STAT 1
Corequisite(s): CSAD 111
Term Typically Offered: Fall only
Physical production, acoustic characteristics of sounds of speech. International Phonetic Alphabet as applied to speech sounds; practice in phonetic transcription of dialects and deviant speech; applications in speech education, speech and hearing therapy. Introduction to physiological acoustics, psychoacoustics, and acoustic phonetics. Perception of speech including voice, resonance, individual speech segments; instrumentation for acoustic and perceptual analysis of speech.

CSAD 111. Anatomy and Physiology of the Speech Mechanism. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, and STAT 1
Corequisite(s): CSAD 110
Term Typically Offered: Fall only
Anatomical, physiological and neurological bases of speech. Covers development, normal structure and function. A general course in human anatomy is recommended as background.

CSAD 112. Language Science and Development. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, and STAT 1
Corequisite(s): CSAD 110 and CSAD 111
Term Typically Offered: Fall only
Overview and comparison of normal and abnormal child language development from infancy through upper elementary school. Establishes a framework for understanding language disorders including autism and pervasive developmental delay. Includes theories of language acquisition, basic principles of language sampling, systems of language, elements of grammar, and preparation for informal and standardized assessment of language disorders. Introduces students to the impact of variables such as attention deficit disorder, poverty, bilingualism on developing language skills.

CSAD 123. Voice and Fluency. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 148, PSYC 2, STAT 1, CHAD 30, and DEAF 51.
Term Typically Offered: Fall, Spring

CSAD 125. Developmental and Acquired Neurogenic Language Disorders Across the Lifespan. 3 Units
Prerequisite(s): CSAD 112, CHDV 30, PSYC 2, STAT 1, and DEAF 51.
Term Typically Offered: Spring only
Language disorders and the dynamic, reciprocal relationships between the disability, the client, his/her family, and the environment. Developmental and acquired neurogenic language disorders from infancy through adulthood will be covered including neurophysiology and neuropathology.

CSAD 126. Speech Sound Development and Disorders in Children: Aspects of Articulation and Phonology. 3 Units
Prerequisite(s): CSAD 110, CHDV 30, PSYC 2, and DEAF 51.
Term Typically Offered: Spring only

CSAD 127. Introduction to Medical Speech Pathology. 3 Units
Prerequisite(s): CSAD 123, CSAD 125, CSAD 126, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring
Current concepts regarding anatomy and physiology, etiology, assessment, and treatment of craniofacial disorders, laryngectomy, tracheostomy and dysphagia.

CSAD 130. Introduction to Audiology. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110 and CSAD 111.
Term Typically Offered: Spring only
Introduction to the field of audiology. Covers the principles of sound, the anatomy and physiology of the auditory system, audiometry, physiological measures of auditory function, disorders of the auditory system, sound and various assessment approaches.

CSAD 133. Introduction to Aural Rehabilitation. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 130, CSAD 148, PSYC 2, STAT 1, CHAD 30, and DEAF 51.
Term Typically Offered: Fall, Spring
Principles of aural (re)habilitation across the lifespan. Topics include psychosocial aspects of hearing impairment, communication strategies, amplification, and intervention approaches for children and adults with hearing loss.

CSAD 140. SLPA Methods. 3 Units
Prerequisite(s): CSAD 145 and instructor permission.
Corequisite(s): CSAD 140L
Term Typically Offered: Fall, Spring
Taken by students as one of their senior level courses when they wish to pursue a Speech-Language Pathology Assistant (SLPA) licensure. Graduate students who have not had a similar course and wish to obtain this licensure will also need to enroll prior to pursuing the licensure.
CSAD 140L. SLPA Practicum, Ethical and Legal Parameters. 3 Units
Prerequisite(s): CSAD 145 and instructor permission.
Corequisite(s): CSAD 140.
Term Typically Offered: Fall, Spring

Taken by students as one of their senior level courses when they wish to pursue a Speech-Language Pathology Assistant (SLPA) licensure. Graduate students who have not had a similar course and wish to obtain this licensure will also need to enroll prior to pursuing the licensure.

CSAD 142. Topics in Autism Spectrum Disorders. 2 Units
Prerequisite(s): CSAD 112, CSAD 125, CSAD 148, PSYC 2, STAT 1, CHAD 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Detailed look at characteristics of autism spectrum disorders (including Asperger’s Syndrome, PDD-NOS and Autism). Issues related to diagnosis/assessment, early intervention, school-based intervention, functional therapeutic techniques and theories, and current "hot topics" in Autism (Theory of Mind, joint attention, biomedical issues, dietary restrictions, sensory regulation and intervention paradigms) will be a part of this course.

CSAD 143. Communication Disorders in Multicultural Populations. 3 Units
Prerequisite(s): CHAD 30, DEAF 51, PSYC 2, STAT 1, CSAD 110, CSAD 125, CSAD 126 and CSAD 148.
Term Typically Offered: Fall, Spring

Identification, evaluation, and treatment of multicultural, multilingual clients with communication disorders. Discussion of normal second language acquisition, bilingual development, and cultural values related to effective service delivery for multicultural clients.

CSAD 145. Supervised Field Observations. 1 Unit
Prerequisite(s): CSAD 110, CSAD 111, CSAD 112, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Corequisite(s): CSAD 125, CSAD 126, CSAD 130 and CSAD 148.
Term Typically Offered: Spring only

Directed observations of speech and hearing testing (screening and diagnostic); therapy and case staffing in schools, service clinics and hospitals.

CSAD 146. Introduction to Clinical Issues and Methods. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110, CSAD 111, CSAD 125, CSAD 126, CSAD 130, and CSAD 145. Minimum major GPA of 3.2 with no CSAD course below a grade of “C”.
Term Typically Offered: Fall, Spring

Work with graduate students and clients. Introduction to clinical procedures, ASHA Code of Ethics, legal issues, funding sources, supervision and scope of practice. Survey of professional settings for speech and language services, including multidisciplinary settings. Required for applicants of the CSAD Master’s program. Recommended for students who plan to apply to graduate programs at other universities. Optional for students who do not plan to attend graduate school. Background check, immunizations, and HIPPA training required prior to enrollment (see Department webpage).

CSAD 147. Assessment Procedures. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 145, PSYC 2, STAT 1, CHAD 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Current principles, methods and materials used by the speech-language pathologist to assess communication disorders are presented. Issues related to a model of assessment, informal and formal testing, dynamic assessment, interview techniques, administration, scoring and interpretation of test results, report writing and related issues will be discussed.

CSAD 148. Research in Speech - Language Pathology and Audiology. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110, CSAD 111, CSAD 112.
Term Typically Offered: Fall, Spring

Survey of research strategies and methods in Speech-Language Pathology and Audiology. Statistical procedures and single-subject designs. Emphasis on interpreting research reports in the literature and on developing research projects. Writing research proposals and reports.

CSAD 177. Appreciation of Diversity in Communication Sciences and Disorders. 1 Unit
Prerequisite(s): CSAD Major.
Term Typically Offered: Fall, Spring

This peer-led course is designed to partner students enrolled within and outside of the department of Communication Sciences and Disorders (CSAD) for a mutual exchange opportunity. Information obtained in CSAD coursework will be used by CSAD students to provide them with hands-on learning experiences relating to the topics covered in those courses. Topics for discussion include concepts relating to intercultural sensitivity and diversity as they apply to communication sciences and disorders.

CSAD 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students competent to carry on individual work.

Note: Departmental petition required.

Credit/No Credit

CSAD 217. AAC and Assistive Technologies. 2 Units
Term Typically Offered: Spring only

Biological, acoustic, psychological, development, linguistic, and cultural bases for motor speech disorders, focusing on augmentative and alternative communication an assistive technologies as well as their assessment and treatment techniques.

CSAD 218. Motor Speech Disorders. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall only

Background pertinent to understanding neurophysiology associated with congenital and acquired dysarthria and dyspraxia. Descriptions and classifications of disorders and their causes, methods of assessment and treatment.
Term Typically Offered: Fall only

Development of strategies for counseling and interviewing clients with communication disorders and their families. Development of specific skills such as effective listening, dealing constructively with emotions, working with families, and leading support groups. Students will learn to deal effectively with the affective side of communication disorders to help clients benefit maximally from assessment and treatment.

CSAD 221. Neurogenic Language Disorders.
Term Typically Offered: Spring only

In-depth study of language and cognitive disorders in adult, secondary to cerebrovascular accident, dementia, and/or traumatic brain injury. Assessment and intervention strategies are covered with particular emphasis on functional outcomes.

Prerequisite(s): Instructor permission.
Term Typically Offered: Spring only

Language acquisition as a continuum from oral language to reading and writing, the role of the speech-language specialist in working with reading disabilities; the interactions among speech-language intervention and curricula areas including mathematics, spelling, handwriting, social studies and language arts; and various service delivery models, including collaborative consultation and learning centers.

CSAD 223. Advanced Seminar in Child Language Disorders.
Prerequisite(s): CSAD 125 or equivalent
Term Typically Offered: Fall only

In-depth study of childhood language disorders emphasizing the use of critical thinking to integrate evidence-based practice into discussion of current assessment and intervention practices for children with primary and secondary language impairment. Specific topics include language sampling, early intervention, connecting intervention with Common Core State Standards, and team-based service delivery. Populations addressed include bilingual learners, those with working memory deficits, and autism spectrum disorder. The impact of the digital era and screen exposure on children with language impairment is discussed.

CSAD 227. Dysphagia and the Medical Setting.
Prerequisite(s): CSAD 218, CSAD 221, instructor permission.
Term Typically Offered: Fall, Spring

Swallowing problems from infancy through old age; growth patterns and failures in younger populations; feeding and swallowing problems related to normal aging processes and those associated with neurogenic disorders. Assessment and treatment. Includes theoretical and experiential components. Overview of the role of Speech-Language Pathologist in the hospital setting including learning how to read medical charts, basic insurance information, understanding other disciplines and how they affect the job and career of an SLP in the hospital, and medical terms/abbreviations.

CSAD 228A. Speech Sound Disorders: Concepts and Methods.
Prerequisite(s): Admission to the graduate program. CSAD 125, CSAD 126, CSAD 143, CSAD 145, CSAD 146, CSAD 148.
Corequisite(s): CSAD 229A.
Term Typically Offered: Fall, Spring

Speech sound disorders for graduate students in speech-language pathology. Foundations of speech sound disorders, as well as techniques and materials for assessing and treating speech sound differences and disorders of varying etiologies and presentations. Weekly content will be integrated with practical experiences to promote learning.

Prerequisite(s): CSAD 123, CSAD 127, CSAD 228A, instructor permission.
Corequisite(s): CSAD 229B.
Term Typically Offered: Fall, Spring

Foundations of fluency, voice and resonance, as well as techniques and materials for assessing and treating speech disorders, emphasizing fluency and voice. Staffings and discussion of cases on the current caseload. Weekly content integrated with practical experiences to promote learning.

CSAD 228C. Methods: Speech Disorders III.
Prerequisite(s): CSAD 218, CSAD 228B; CSAD 221 may be concurrent; instructor permission.
Corequisite(s): CSAD 229C.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating clients with disordered speech secondary to developmental disabilities and syndromes, degenerative diseases or complex problems associated with English as a second language (ESL). Discussions of cases in the current caseload.

CSAD 229A. Practice: Speech Disorders I.
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 228A
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing articulation and phonological disorders, and phonological difficulties associated with English as a second language (ESL). Clients may include both children and adults.

CSAD 229B. Practice: Speech Disorders II.
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 228B
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing clients whose speech is disrupted by abnormal rhythm and rate (e.g. stuttering and cluttering) or abnormal vocal pitch, loudness, and/or quality.

CSAD 229C. Practice: Speech Disorders III.
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 228C
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing children and adults whose speech is disrupted secondary to developmental disorders and syndromes, degenerative disorders or complex problems.
Supervised clinical practice in the administration of hearing screening tests. The student must furnish his/her own transportation. Fifteen to twenty hours for one unit.

Credit/No Credit

CSAD 242A. Methods: Language Disorders I & Professional Writing-Field of Speech-Language Pathology & Audiology. 2 Units
Prerequisite(s): Admission to Graduate Program
Corequisite(s): CSAD 243A
Term Typically Offered: Fall, Spring

Methods, materials and procedures in language disorders with emphasis on working with children and adults with peripheral hearing loss or central auditory processing disorders (CAPD). Includes staffing and discussion of cases in the current caseload. Focus on professional writing in the field of Speech-Language Pathology through the development of treatment plan proposals, critical responses, and clinic reports.

CSAD 242B. Methods: Language Disorders II. 1 Unit
Prerequisite(s): CSAD 223, CSAD 242A; instructor permission.
Corequisite(s): CSAD 243B.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating children with disordered language secondary to a myriad of contributing factors including delayed development, neurological problems and various genetic conditions. Discussion of cases in the current caseload.

CSAD 242C. Methods: Language Disorders III. 1 Unit
Prerequisite(s): CSAD 218, CSAD 242B; CSAD 221 may be taken concurrently; instructor permission.
Corequisite(s): CSAD 243C.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating speech and language disorders emphasizing disorders secondary to cerebral vascular accidents, traumatic brain injury, or other neurological disorders. Discussion of cases in the current caseload.

Note: May be repeated.

CSAD 243A. Practice: Language Disorders I. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 242A
Term Typically Offered: Fall, Spring

Supervised clinical practice in language disorders emphasizing children and adults with peripheral hearing loss or central auditory processing disorders (CAPD).

CSAD 243B. Practice: Language Disorders II. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 242B
Term Typically Offered: Fall, Spring

Supervised clinical practice with children demonstrating language disorders secondary to a myriad of contributing factors including delayed development, neurological problems, and various genetic conditions.

CSAD 243C. Practice: Language Disorders III. 2 Units
Prerequisite(s): CSAD 243B; instructor permission
Corequisite(s): CSAD 242C
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing adult clients whose speech and language are disordered secondary to neurogenically related problems such as cerebrovascular accident, traumatic brain injury, or other neurological disorders.

CSAD 244. Methods: Speech -- Language Assessment. 1 Unit
Prerequisite(s): CSAD 147 or equivalent; CSAD 228B, CSAD 242B; instructor permission.
Corequisite(s): CSAD 245.
Term Typically Offered: Fall, Spring

Methods and materials for initial assessment in Speech-Language Pathology.

CSAD 245. Practice: Speech -- Language Assessment. 1 Unit
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 244
Term Typically Offered: Fall, Spring

Supervised clinical practice in assessment with a variety of communication disorders in children and adults. Experience with interdisciplinary teams.

CSAD 250. Speech/Language Internships Seminar. 2 Units
Corequisite(s): CSAD 295I, or CSAD 295M, or CSAD 295P, or CSAD 295S.
Term Typically Offered: Fall, Spring

Assessment, scheduling and conducting language speech and hearing programs in schools. Related issues including scope of practice, managed care, interagency cooperation and interdisciplinary approaches.

CSAD 295I. Internship: Speech-Language and Hearing Services in Schools (SLHS). 4 Units
Prerequisite(s): All previous semester’s clinical practica and coursework must be completed, achievement of a passing score on the CBEST.
Corequisite(s): CSAD 250. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring

Supervised clinical practice in the school setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation.

CSAD 295M. Internship: Speech-Language Pathology in a Medical Setting. 4 Units
Prerequisite(s): All previous semester’s clinical practica and coursework must be completed, achievement of a passing score on the CBEST.
Corequisite(s): CSAD 250. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring

Supervised clinical practice in a medical setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation.
CSAD 295P. Internship: Speech-Language Pathology in Private Practice. 4 Units
Prerequisite(s): CSAD 250. All previous semester’s clinical practica and coursework must be completed, achievement of a passing score on the CBEST. Graded: Credit/No Credit. Units: 4
Term Typically Offered: Fall, Spring
Supervised clinical practice in a private practice setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation. Credit/No Credit

CSAD 295S. Internship: Special Class Authorization Eligibility. 4 Units
Prerequisite(s): CSAD 250. All previous semester’s clinical practica and coursework must be completed, achievement of a passing score on the CBEST. Graded: Credit/No Credit. Units: 4
Term Typically Offered: Fall, Spring
Supervised clinical practice in a medical setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation. Credit/No Credit

CSAD 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Open only to students who appear competent to carry on individual work. Note: Departmental petition required. Credit/No Credit

CSAD 500C. Culminating Experience: Comprehensive Exam. 2 Units
Prerequisite(s): Advanced to Candidacy. Graded: Credit/No Credit. Units: 2.0
Term Typically Offered: Fall, Spring
Written exam comprised of eight questions. Examinees are given one and a half hours to complete each question. Credit/No Credit

CSAD 500P. Culminating Experience: Project. 2 Units
Prerequisite(s): Advancement to Candidacy. Graded: Credit/No Credit. Units: 2.0 - 4.0
Term Typically Offered: Fall, Spring
Independent work conducted under the supervision of faculty members. A project is a significant undertaking appropriate to the professional fields of Speech-Language Pathology or Audiology. It must evidence originality, independent thinking, appropriate form and organization, and a rationale. It must be described and summarized in a written document that includes the project’s significance, objectives, methodology, and a conclusion or recommendation. Students must follow all department and university project guidelines. Credit/No Credit

CSAD 500T. Culminating Experience: Thesis. 2 Units
Prerequisite(s): Advanced to Candidacy. Graded: Credit/No Credit.
Term Typically Offered: Fall, Spring
Independent research study, conducted under the supervision of faculty members. Thesis must involve a research question or hypothesis, review of pertinent literature, collection and analysis of data. It is the student’s responsibility to locate and recruit subjects, to collect data, and to write the thesis. Students must follow all department and university thesis guidelines. Credit/No Credit

CSAD 501. Audiology Doctoral Project I. 1 Unit
Prerequisite(s): CSAD 510
Term Typically Offered: Fall only
Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines. Credit/No Credit

CSAD 502. Audiology Doctoral Project II. 1 Unit
Prerequisite(s): CSAD 501
Term Typically Offered: Spring only
Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines. Credit/No Credit

CSAD 503. Audiology Doctoral Project III. 1 Unit
Prerequisite(s): CSAD 502
Term Typically Offered: Summer only
Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines. Credit/No Credit

CSAD 504. Audiology Doctoral Project IV. 1 Unit
Prerequisite(s): CSAD 503
Term Typically Offered: Fall only
Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines. Credit/No Credit

CSAD 505. Audiology Doctoral Project V. 1 Unit
Prerequisite(s): CSAD 504
Term Typically Offered: Spring only
Dissemination, written and oral, of capstone research. Credit/No Credit

CSAD 510. Audiology Progress Exam. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 620, CSAD 620C, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 630, CSAD 630C, CSAD 631, CSAD 632.
Term Typically Offered: Summer only
Formative written and practical exam based on coursework and clinical experiences from the first year of the Doctor of Audiology program. Credit/No Credit
CSAD 520. Audiology Comprehensive Exam. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program: CSAD 610, CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 620, CSAD 620C, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 630, CSAD 630C, CSAD 631, CSAD 632, CSAD 340, CSAD 640C, CSAD 641, CSAD 642, CSAD 643, CSAD 650, CSAD 650C, CSAD 651, CSAD 652, CSAD 653, CSAD 660, CSAD 660C, CSAD 661, CSAD 662, CSAD 663, CSAD 670, CSAD 670C, CSAD 671, CSAD 672, CSAD 673
Term Typically Offered: Spring only

Summative written and practical exam based on coursework and clinical experiences from the first three years of the Doctor of Audiology program.

Credit/No Credit

CSAD 610. Introduction to Clinic. 1 Unit
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Introduction to on-campus clinic operations, including electronic documentation procedures, clinic policies, and documentation.

CSAD 611. Anatomy and Physiology of the Auditory and Vestibular Systems. 3 Units
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Anatomical, physiological, and neurological bases of the auditory system and central nervous system and central nervous system. Covers embryologic development, including genetic factors, and normal structure and function.

CSAD 612. Acoustics and Psychoacoustics. 3 Units
Prerequisite(s): Admission to Doctorate program in Audiology.
Term Typically Offered: Fall only

Basic properties of the acoustics of simple and complex sounds. Psychophysical aspects of frequency and pitch, intensity and loudness, and temporal processes will be discussed. Speech perception for listeners with normal hearing and those with hearing loss.

CSAD 613. Instrumentation in Audiology. 3 Units
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Basic principals of electrical systems, calibration, signal processing, and analysis. Review of national standards related to calibration and instrumentation used in audiology.

CSAD 614. Audiologic Evaluation. 3 Units
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Introduction to the purpose, diagnostic use, and procedures for basic clinical tests of auditory function in children and adults. Assessments including pure-tone audiometry, speech audiometry, masking, and immittance measures are discussed. Supervised, hands-on experiences will accompany lecture topics.

CSAD 620. Clinical Methods: Communicating with Patients. 1 Unit
Prerequisite(s): Admission to doctorate program in audiology; CSAD 610.
Corequisite(s): CSAD 620C.
Term Typically Offered: Spring only

Communicating with patients. The nature of health communication among providers, patients, families, and caregivers. Topics related to multicultural issues will also be presented.

CSAD 620C. Audiology Clinic II. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610
Corequisite(s): CSAD 620
Term Typically Offered: Spring only

Supervised clinical practice in audiology with an emphasis on developing second-semester clinical skills for audiologic evaluations, amplification, and aural rehabilitation.

CSAD 621. Research Methods in Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only

Treatment of human subjects and research methods. Overview of the research process, including research designs, development of data collection instruments, and data collection, and introduction to basic statistical concepts for the Au.D. doctoral project. Ethical considerations of research are also discussed.

CSAD 622. Amplification I. 3 Units
Prerequisite(s): Admission to the Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, and CSAD 614.
Corequisite(s): CSAD 622L
Term Typically Offered: Spring only

Introduction to electroacoustic analysis and characteristics of hearing aids. Includes components of hearing aids, hearing aid gain and fitting formulae, and basic signal processing.

CSAD 622L. Amplification I Lab. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, and CSAD 614.
Corequisite(s): CSAD 622.
Term Typically Offered: Spring only

Laboratory component of CSAD 622: Amplification I. Hands-on experience with concepts presented in CSAD 622.

CSAD 623. Disorders of the Auditory System. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, and CSAD 614.
Term Typically Offered: Spring only

Pathologies of the auditory system, including diagnosis, management, and treatment.

CSAD 624. Genetics for Audiology. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614.
Term Typically Offered: Spring only

Introduction to genetics, inheritance, and causes of hearing loss and balance disorders.
CSAD 630. Clinical Methods: Report Writing. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620.
Corequisite(s): CSAD 630C.
Term Typically Offered: Summer only
Principles of clinical report writing. Foundations of professional writing and recordkeeping for the diagnostic and rehabilitative processes. Writing requirements for practicum experiences will be discussed.

CSAD 630C. Audiology Clinic III. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C.
Corequisite(s): CSAD 630.
Term Typically Offered: Summer only
Supervised clinical practice in audiology with an emphasis on developing first-year clinical skills for audiologic evaluations, amplification, and aural rehabilitation.

CSAD 631. Amplification II. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624
Term Typically Offered: Summer only
Advance study of digital amplification systems, including hearing aids and assistive listening devices. Practical approaches to the fitting of devices are discussed.

CSAD 632. Pediatric and Educational Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624.
Term Typically Offered: Summer only
Introduction to etiologies of childhood hearing impairment, including genetics, syndromic and non-syndromic causes of hearing loss, and risk factors. Objective and behavioral measures of assessing auditory function and hearing in newborns, infants, toddlers, and children. Review of screening procedures.

CSAD 640. Clinical Methods: Current Topics in Audiology. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630
Corequisite(s): CSAD 640C
Term Typically Offered: Fall only
Review and discussion of current topics in audiology such as hidden hearing loss, cerumen management, tinnitus, speech perception in noise, central auditory processing, or technological advancements in amplification.

CSAD 640C. Audiology Clinic IV. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C
Corequisite(s): CSAD 640
Term Typically Offered: Fall only
Supervised clinical practice in audiology with an emphasis on developing fourth-semester clinical skills for audiologic evaluations, amplification, and aural rehabilitation.

CSAD 641. Auditory Evoked Potentials. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632
Corequisite(s): CSAD 641L
Term Typically Offered: Fall only
Physiological measures for evaluating the integrity of the auditory system. Emphasis on the administration and interpretation of the auditory brainstem response.

CSAD 641L. Auditory Evoked Potentials Lab. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632
Corequisite(s): CSAD 641
Term Typically Offered: Fall only
Lab component includes administration and reporting of physiological assessments presented in CSAD 641: Auditory Evoked Potentials.

CSAD 642. Industrial Audiology and Hearing Conservation. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632.
Term Typically Offered: Fall only
Study of the effects of noise on the auditory system and measurement of noise levels. Theories and resources for the implementation of hearing conservation programs for recreational/leisure noise exposure, industrial settings, and schools.

CSAD 643. Tinnitus. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632.
Term Typically Offered: Fall only
Psychological and physiological models of tinnitus and hyperacusis, diagnostic methods, and management.

CSAD 650. Clinical Methods: Billing and Coding. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640
Corequisite(s): CSAD 650C
Term Typically Offered: Spring only
Overview of coding, billing, and reimbursement for audiology services and devices. Students will learn current federal regulations and laws that affect audiology practice.

CSAD 650C. Audiology Clinic V. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C
Corequisite(s): CSAD 650
Term Typically Offered: Spring only
Supervised clinical practice in audiology with an emphasis on refining second-year clinical skills and working independently.
Credit/No Credit
CSAD 651. Objective Measures. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
Term Typically Offered: Spring only

Fundamentals of otoacoustic emissions, and advanced study of immittance testing and the auditory brainstem response with some practical exercises.

CSAD 652. Pediatric Habilitation. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631 CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
Term Typically Offered: Spring only

Early identification, assessment, and rehabilitation for infants and children with hearing loss. Focus on speech and language outcomes, communication strategies, technology, and counseling of families.

CSAD 653. Diagnosis and Management of Vestibular Disorders. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631 CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
Term Typically Offered: Spring only

Anatomical and physiological bases of the vestibular system, including congenital, peripheral and central, and neurologic factors will also be introduced. Physiological measures of the vestibular system, clinical assessment, and management and rehabilitation.

CSAD 660. Clinical Methods: Legal and Ethical Issues. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650
Corequisite(s): CSAD 660C
Term Typically Offered: Summer only

Ethics for clinical practice and research and legal issues for audiologists. Focuses on local and national issues that influence service delivery.

CSAD 660C. Audiology Clinic VI. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C, CSAD 650C.
Corequisite(s): CSAD 660
Term Typically Offered: Summer only

Supervised clinical practice in audiology with an emphasis on refining advanced clinical skills and working independently. Credit/No Credit

CSAD 661. Aural Rehabilitation. 3 Units
Term Typically Offered: Summer only

Rehabilitative techniques and communication needs for adults and the aging population. Focus on minimizing communication difficulties and managing psychosocial aspects of hearing loss. Prerequisite: Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653.

CSAD 662. Implantable Devices and Technology. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653
Term Typically Offered: Summer only

Pre-operative assessment and post-operative management of cochlear implants and other implantable devices. Includes patient counseling for expectations, introduction to surgical procedures, mapping, use of assistive devices, and current developments in research.

CSAD 662C. Aural Rehabilitation. 2 Units
Corequisite(s): CSAD 670C
Term Typically Offered: Fall, Spring

Supervised clinical practice in audiology with an emphasis on refining third-year clinical skills and working independently.

CSAD 670. Clinical Methods: Professional Issues. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650, CSAD 660
Corequisite(s): CSAD 670C
Term Typically Offered: Fall only

Professional issues for audiologists. Topics covered include licensure, certification, and professional involvement at the local, state, and national levels.

CSAD 670C. Audiology Clinic VII. 2 Units
Prerequisite(s): Student must be admitted to Doctor of Audiology program; complete CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C, CSAD 650C, and CSAD 660C to enroll in this course.
Corequisite(s): CSAD 670C
Term Typically Offered: Fall only

Supervised clinical practice in audiology with an emphasis on refining third-year clinical skills and working independently.

CSAD 671. Counseling in Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662.
Term Typically Offered: Fall only

Introduction to the principles and theories of counseling. Emphasis on communication skills and applied techniques. Considerations for assessing multicultural populations. Influences of cultural background on attitudes, beliefs, disabilities, utilization of health care services, and deafness.

CSAD 672. Central Auditory Processing Disorders. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 311, CSAD 312, CSAD 313, CSAD 314, CSAD 321, CSAD 322, CSAD 322L, CSAD 323, CSAD 324, CSAD 331, CSAD 332, CSAD 411, CSAD 414L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 362.
Term Typically Offered: Fall only

Definition and role of audiologists in the assessment, diagnosis, and management of children, adults, and older adults with auditory processing disorder.
CSAD 673. Pharmacology and Ototoxicity. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662.
Term Typically Offered: Fall only
Introduction to the basic concepts of pharmacology, including pharmacokinetics, polypharmacy, and ototoxicity (cochleotoxicity, vestibulotoxicity, and neurotoxicity), for audiologists. Overview of drug classifications, interactions, and regulations.

CSAD 680. Clinical Methods: Differential Diagnosis. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650, CSAD 660, CSAD 670
Corequisite(s): CSAD 680C
Term Typically Offered: Spring only
Discussion of clinical cases to encourage critical thinking and decision-making processes.

CSAD 680C. Audiology Clinic VIII. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C, CSAD 650C, CSAD 660C, CSAD 670C.
Corequisite(s): CSAD 680
Term Typically Offered: Spring only
Supervised clinical practice in audiology with an emphasis on refining clinical skills and working independently in preparation for the externship.

CSAD 681. Practice Management. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662, CSAD 671, CSAD 672, CSAD 673
Term Typically Offered: Fall, Spring
Topics relating to business models, terminology, accounting, reimbursement, equipment needs, and office management. Focus on private practice and managed care.

CSAD 682. Aging and the Auditory System. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 341, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662, CSAD 671, CSAD 672, CSAD 673.
Term Typically Offered: Spring only
Overview of physical, psychological, social, and cognitive changes that are associated with normal aging. Prevalent disorders, diseases, and conditions in older adults will be discussed. Effects of aging on diagnostic tests and rehabilitation for older adults. Interdisciplinary in nature.

CSAD 683. Speech-Language Pathology for Audiologists. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 314, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 331, CSAD 332, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662, CSAD 671, CSAD 672, CSAD 673
Term Typically Offered: Spring only
Overview of speech and language development, including screening for speech and language disorders and risk factors for speech and language delay, from the perspective of audiology. Principles of auditory-verbal therapy.

CSAD 710. Clinical Methods: Externship I. 2 Units
Prerequisite(s): CSAD 520
Corequisite(s): CSAD 710E
Term Typically Offered: Summer only
Seminar and discussion of cases from externship placements.

CSAD 710E. Audiology Externship 1. 7 Units
Prerequisite(s): CSAD 520
Corequisite(s): CSAD 710
Term Typically Offered: Summer only
First full-time externship in audiology I.
Credit/No Credit

CSAD 720. Clinical Methods: Externship II. 2 Units
Prerequisite(s): CSAD 710.
Corequisite(s): CSAD 720E.
Term Typically Offered: Fall only
Seminar and discussion of cases from externship placements.

CSAD 720E. Audiology Externship 2. 7 Units
Prerequisite(s): CSAD 710E.
Corequisite(s): CSAD 720.
Term Typically Offered: Fall only
Second full-time externship in audiology II.
Credit/No Credit

CSAD 730. Clinical Methods: Externship III. 2 Units
Prerequisite(s): CSAD 720.
Corequisite(s): CSAD 730E.
Term Typically Offered: Spring only
Seminar and discussion of cases from externship placements.

CSAD 730E. Audiology Externship 3. 7 Units
Prerequisite(s): CSAD 720E.
Corequisite(s): CSAD 730.
Term Typically Offered: Spring only
Third full-time externship in audiology III.
Credit/No Credit

BS in Communication Sciences and Disorders

Units required for Major: 53-56 (40-43 CSAD courses + 13 major prerequisites)
Total units required for BS: 120
Program Description

In addition to obtaining a 2.0 in the overall 53-56 unit major, a student must achieve an overall average 2.5 GPA in the 40 units of required CSAD major coursework in order to graduate with a Bachelor of Science Degree in Communication Sciences and Disorders. In order to achieve these GPAs, students may repeat courses for which grades of C- or below were earned, contingent upon their eligibility to do so under the campus policy on repeating courses. Repeated course grades will either be forgiven or averaged with the new grade according to the campus policy. Repeated course grades will either be forgiven or averaged with the new grade according to the campus policy. Repeated course grades will either be forgiven or averaged with the new grade according to the campus policy. Repeated course grades will either be forgiven or averaged with the new grade according to the campus policy. Repeated course grades will either be forgiven or averaged with the new grade according to the campus policy.

Undergraduate courses are designed for students to begin in the fall semester and progress in a proscribed sequence.

It is strongly recommended that students:

• Take a course in physics and/or chemistry as some programs offering the Master's Degree in Speech-Language Pathology or Communication Sciences and Disorders will require it.
• Finish all Undergraduate General Education units before beginning major coursework.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSAD 133</td>
<td>Introduction to Aural Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>CSAD 143</td>
<td>Communication Disorders in Multicultural Populations</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Units | 56 |

1 Course also satisfies General Education (GE)/Graduation Requirement

2 Offered Fall or Spring. Required for students who plan to apply to Sacramento State for the Master's in Communication Sciences and Disorders. Recommended for students who plan to apply to graduate programs at other universities. Optional for students who do not plan to attend graduate school.

Note: Students must submit a signed record of all observation hours and supervised clinical clock hours to the Communication Sciences and Disorders Department. Students should retain a second copy for their personal records.

Prior to enrolling in CSAD 146, students must fulfill the following requirements:

• Pass/complete the Sacramento State undergraduate writing requirement as delineated in the University Policy Manual posted on the campus website.
• 3.2 GPA within the major (CSAD) with no CSAD courses below a grade of "C".
• Proof of negative tuberculin (PPD) test and verification of measles, rubella, and hepatitis B immunizations.
• Completion of a Level 1 criminal background screening. Screenings must be conducted by the department-sanctioned agency. Refer to Department webpage for current agency instructions. Background checks performed by other agencies are not accepted.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
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</tbody>
</table>

Area B: Physical Universe and Its Life Forms (10-13 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area C: Arts and Humanities (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1 - Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area D: The Individual and Society (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area D Course - Take upper-division course to complete Area & upper division requirements.
The Center for Health and Human Services at Sacramento State, located in Folsom Hall, provides the community with speech, language, and hearing services through the Rees Language, Speech, and Hearing Center, which is located on campus.

The Doctor of Audiology (Au.D.) program at Sacramento State is designed to prepare students for professional practice of audiology. The Au.D. program provides coursework in the theoretical foundations of audiology practice and evidence-based practice, as well as varied clinical training experiences in the Sacramento community and surrounding areas. The Maryjane Rees Language, Speech, and Hearing Center, which is located on campus, provides the community with speech, language, and hearing services for children and adults with communication disorders. In addition, the department is located in Folsom Hall, home of the The Center for Health and Human Services, giving students opportunities to work alongside and learn from and with other health professions students.

**Admission Requirements**

- Students must have an undergraduate degree from an accredited institution.
- Students must have completed a course in each of the following:
  - Human Development Across the Lifespan
  - Introduction to Psychology
  - Introduction to Statistics
  - American Sign Language
  - Biological Science
  - Physical science
- Students must have completed the equivalent of the following Sacramento State Communication Sciences and Disorders courses:

**Graduation Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSAD 110</td>
<td>Physics of Sound and Phonetics</td>
<td>4</td>
</tr>
<tr>
<td>CSAD 111</td>
<td>Anatomy and Physiology of the Speech Mechanism</td>
<td>3</td>
</tr>
<tr>
<td>CSAD 112</td>
<td>Language Science and Development</td>
<td>3</td>
</tr>
<tr>
<td>CSAD 125</td>
<td>Developmental and Acquired Neurogenic Language Disorders Across the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>CSAD 130</td>
<td>Introduction to Audiology</td>
<td>3</td>
</tr>
<tr>
<td>CSAD 133</td>
<td>Introduction to Aural Rehabilitation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Doctor of Audiology**

Units required for Doctorate of Audiology (Au.D.): 118

**Program Description**

The Doctor of Audiology (Au.D.) program at Sacramento State is a four-year clinical doctorate that is designed to prepare students for professional practice of audiology. The Au.D. program provides coursework in the theoretical foundations of audiology practice and evidence-based practice, as well as varied clinical training experiences in the Sacramento community and surrounding areas. The Maryjane Rees Language, Speech, and Hearing Center, which is located on campus, provides the community with speech, language, and hearing services for children and adults with communication disorders. In addition, the department is located in Folsom Hall, home of the The Center for Health and Human Services.
### Doctor of Audiology Graduate Program Policies and Procedures

1. A student must have, at minimum, a 3.0 GPA in the graduate coursework in order to graduate with a Doctor of Audiology degree. Students may not earn a grade of less than a B in any major didactic course or clinical practicum. The Au.D. Program Director will review each student's grade reports at the end of the second clinical semester to identify students who receive less than a B in any graduate level course or clinical practicum or students who have less than a 3.0 GPA for the semester. The course instructor (for didactic courses) or clinical supervisor (for practicum sites) will meet with the Au.D. Program Director and student to discuss steps for the student to remediate the coursework, address areas of weakness in clinical performance, etc. Students failing to maintain a GPA of 3.00 are automatically placed on academic probation. Students on academic probation must independently remediate the coursework or address the deficiencies identified by the course instructor and Au.D. Program Director or s/he will not be allowed to continue the graduate program and will be dismissed. Any student who has less than B in any two didactic or B in any clinical practicum courses will not be allowed to continue in the graduate program and will be dismissed.

2. Prior to enrolling in any clinical practica, students must fulfill the following criteria.
   - Proof of required immunizations consistent with Department Policy. See Department webpage for details.
   - Completion of background check consistent with Department Policy. See Department webpage for details.
   - Students must complete all clinical practica in the prescribed sequence. Students who have not completed a given semester's clinical practica will not be allowed to progress into subsequent clinical practica, including internships and the externship.
   - Current certification in Cardiopulmonary Resuscitation (CPR) for Health Care Providers.

3. There are specific clock-hour requirements for the California License in Audiology, as well as requirements for the Accreditation Commission for Audiology Education (ACAED) and Council on Academic Accreditation (CAA). Students who wish to pursue the Certificate of Clinical Competence (CCC) prior to graduation must meet those requirements in consultation with the Clinic Coordinator.

4. Internship requirements: Documentation of the following is required by the end of the second clinical semester.
   - Current certification in Cardiopulmonary Resuscitation (CPR) for Health Care Providers.
   - Complete Certificate of Clearance.

5. Students must furnish their own transportation to off-campus practicum sites.

6. Students must explore and complete additional internship requirements as delineated by each site.

7. Clock hours from the following may be counted for the California License in Audiology only if the on-site supervisors have their CCCs and California License in Audiology.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSAD 620C</td>
<td>Audiology clinic II</td>
<td>1</td>
</tr>
</tbody>
</table>

### Audiology Doctoral Project

1. Students must meet the clinical practicum requirements, including approved hours, for the California License in Audiology at the time of graduation in order to receive the Au.D. degree.

2. Students must submit a signed record of all observation hours and supervised clinical clock hours to the Communication Sciences and Disorders Department. Students should retain multiple copies for their personal records.

3. Students earning less than a B in clinical practicum must repeat the clinical experience during the following semester. Hours earned for the semester in which the student earned less than a B will not be counted.

**Definition:** The Au.D. doctoral project is an independent research study conducted by the student under the supervision of members of the faculty. The project must include a testable research question and hypothesis, review of pertinent literature, and the collection and analysis of data. It is the student's responsibility to locate and recruit subjects and to collect the data, as well as to write the paper. Papers that are based on original data are preferred; however, those based on secondary data sources will also be considered.

**Supervision:** The doctoral project is supervised by a committee of three faculty members in the Department of Communication Sciences and Disorders. The "first reader" is the chair of the committee and the student's primary advisor and editor. The "second reader" and "third reader" evaluate the proposal at the beginning, consult on the development of the paper as necessary, and must approve the final paper.
Credit: A student enrolls in one unit of Audiology Doctoral Project each semester he/she works on the project for a total of five units. Students must complete the project before the end of the third year in order to complete degree requirements.

Audiology Progress Exam (CSAD 510)
Consists of written and clinical portions. Both portions must be passed according to the criteria below:

Formative written exam: Based on coursework taken in the first year of the Au.D. program (anatomy and physiology, acoustics and psychoacoustics, instrumentation, audiologic evaluation, amplification, disorders of the auditory system, genetics, research methods, and pediatric and educational audiology). The exam is administered during the summer of the first year. The exam period is over two days, and students will write for up to four hours each day.

1. Faculty will develop questions and scoring rubrics for each of the nine subject areas assessed based on expertise and subject areas taught.
2. Each response will be scored by two faculty members. If two faculty members award different scores (e.g. pass and no-pass), a third faculty member will serve as a tie breaker. Faculty scores are confidential.
3. Upon completion and review by the examiners, each question is given a grade of "Pass," "Conditional Pass," or "No-Pass"
   a. "Pass" indicates a satisfactory completion of the question.
   b. "Conditional Pass" indicates a pass, but the examiners require additional work or remediation. Examiners are required to provide written feedback of the student's responses. Deficiencies can be addressed through an oral exam for further clarification or course work remediation (reading, independent study, etc.), which is determined by the faculty examiner and Au.D. Program Director. A timeline for this remediation plan and a method for verifying completion of the work must be determined by the faculty examiners, Au.D. Program Director, and the student.
   c. "No-Pass" indicates an unsatisfactory answer. Students are required to meet with the examiners and Au.D. Program Director to review their performance. Students who receive "No-Pass" results on less than or equal to 25% of the questions will meet with the examiners to address deficiencies.
4. Students must receive a "Pass" on all areas of the exam to proceed to the second year.
5. Students receiving conditional "Pass" results on more than 50% of the questions may be placed on academic probation and given the opportunity to retake the exam by the end of the summer semester after completing remediation work. Failure to receive a "Pass" on the second administration of the exam will result in dismissal from the program.
6. Students receiving "No-Pass" results on more than 25% of the questions will be dismissed from the program.

Clinical exam: Includes a practical portion and a case study. Students will perform clinical procedures related to the topics presented in CSAD 614: Audiologic evaluation, CSAD 622: Amplification I, CSAD 622L: Amplification I lab, CSAD 631: Amplification II, and CSAD 632: Pediatric and Educational Audiology. Students will perform the evaluation in the presence of an Au.D. faculty member. The second part of the clinical exam will involve the presentation of a case study in which students will discuss their preparation for the appointment, possible diagnostic results, clinical interpretation of findings, and recommendations.

1. Grading
   a. Students must pass the clinical portion of the exam at 80% or higher in order to enroll in CSAD 504.
   b. Students receiving less than 80% will have one opportunity to retake the clinical portion of the exam and receive a "Pass" result.
   c. Students who fail to receive a "Pass" result on the second attempt will be removed from the program.

Audiology Comprehensive Exam (CSAD 520)
Definition: Summative written and oral exam that assesses knowledge and skills gained through coursework and/or clinical practica, and evaluates problem-solving and critical thinking skills for clinical cases. The written exam will be completed within the first week of the testing period during the spring semester, and the oral exam will be scheduled during the second week of testing.

1. The written portion consists of 200 questions that evaluate students' knowledge of the first two years of didactic and clinical coursework. Students must score 80% or better on this section to pass. The exam period is up to four hours on one day.
   a. Students who receive less than 80% on the exam must develop a plan for remediation with the Au.D. program faculty. Students may retake the written portion of the exam once. Failure to achieve a passing score on the second attempt will result in dismissal from the program.
2. The oral exam includes three cases (e.g. pediatric, adult, vestibular, etc.). The student will discuss the case history information, diagnostic results, and management plan with the examining committee. Questions pertaining to interpretation of the test results, site-of-lesion determination, recommendations or referrals, and rehabilitation of cases will be asked. Students will be expected to reference research and/or evidence-based practice guidelines in their responses. Students will also be asked additional questions to respond to during this examination period.
   a. Each response to the oral exam will be evaluated by three Au.D. faculty members. Faculty will evaluate responses using a rubric for thorough discussion, appropriate assessments and recommendation, and correct responses to questions.
   b. Upon completion and review by the examiners, each question is given a grade of "Pass" or "No-Pass."
      i. "Pass" indicates a satisfactory completion of the question.
      ii. "No-Pass" indicates an unsatisfactory answer to any of the discussion questions of the oral exam. Students who receive a "No-Pass" result are not permitted to begin the third-year externship. Students will be given the opportunity to develop a remediation plan with Au.D. program faculty before retaking the exam at the end of the summer semester. Failure to receive a "Pass" result on the second attempt will result in dismissal from the program.

Additional Information
Licensure, Certification, and Fellowship
Students completing the program will be eligible to apply for California licensure in audiology and fellowship from the American Academy of Audiology. Students seeking the Certificate of Clinical Competence from the American Speech-Language and Hearing Association (ASHA) must
notify the clinical coordinator to find ASHA-certified supervisors for the placements.

**Licensure**

Admission into programs leading to licensure does not guarantee that students will obtain a license. Licensure requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure requirements.

**Program Requirements**

Coursework in the Doctor of Audiology program are lockstep and begin in the fall semester. Students are admitted to the program on a yearly basis. There are eleven semesters in the program.

Units required for Doctorate of Audiology Program: 118 units

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td><strong>Semester 1: Fall (13 Units)</strong></td>
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<tr>
<td>CSAD 610</td>
<td>Introduction to clinic</td>
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<td>CSAD 611</td>
<td>Anatomy and physiology of the auditory and vestibular systems</td>
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<tr>
<td>CSAD 612</td>
<td>Acoustics and psychoacoustics</td>
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<td>CSAD 613</td>
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<td>CSAD 614</td>
<td>Audiologic evaluation</td>
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<td>CSAD 620</td>
<td>Clinical methods: Communicating with patients</td>
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<td>CSAD 620C</td>
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<td>CSAD 510</td>
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<td>CSAD 630</td>
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<td>CSAD 630C</td>
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<td>Pediatric and educational audiology</td>
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<td>CSAD 640</td>
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<td>CSAD 641</td>
<td>Auditory evoked potentials</td>
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<td>CSAD 641L</td>
<td>Auditory evoked potentials lab</td>
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<td>CSAD 642</td>
<td>Industrial audiology and hearing conservation</td>
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<td>CSAD 643</td>
<td>Tinnitus</td>
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<td>CSAD 640C</td>
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<td>CSAD 650</td>
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<td>CSAD 650C</td>
<td>Audiology clinic V</td>
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<td>CSAD 651</td>
<td>Objective measures</td>
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<td>CSAD 652</td>
<td>Pediatric habilitation</td>
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<td>CSAD 653</td>
<td>Diagnosis and management of vestibular disorders</td>
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<td><strong>Semester 6: Summer (9 Units)</strong></td>
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<td>CSAD 503</td>
<td>Audiology doctoral project III</td>
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<td>CSAD 660</td>
<td>Clinical methods: Legal/ethical issues</td>
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<td>CSAD 660C</td>
<td>Audiology clinic VI</td>
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<tr>
<td>CSAD 661</td>
<td>Aural rehabilitation</td>
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<tr>
<td>CSAD 662</td>
<td>Implantable devices and technology</td>
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<td><strong>Semester 7: Fall (11 Units)</strong></td>
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<td>CSAD 504</td>
<td>Audiology doctoral project IV</td>
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<td>Clinical methods: Professional issues</td>
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<td>Audiology clinic VII</td>
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<td>Counseling in audiology</td>
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<td>CSAD 672</td>
<td>Central auditory processing disorders</td>
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<td>CSAD 673</td>
<td>Pharmacology and ototoxicity</td>
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<td>CSAD 681</td>
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<td>CSAD 682</td>
<td>Aging and the auditory system</td>
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<td>CSAD 683</td>
<td>Speech-language pathology for audiologists</td>
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<td>CSAD 680C</td>
<td>Audiology clinic VIII</td>
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<td>CSAD 680</td>
<td>Clinical methods: Differential diagnosis</td>
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<td>CSAD 505</td>
<td>Audiology doctoral project V</td>
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<td>CSAD 520</td>
<td>Audiology comprehensive exam</td>
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<td>CSAD 710</td>
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<td>CSAD 710E</td>
<td>Audiology Externship I</td>
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<td><strong>Semester 10: Fall (9 Units)</strong></td>
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<td>CSAD 720</td>
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<td>CSAD 720E</td>
<td>Audiology Externship II</td>
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<td>CSAD 730E</td>
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<td><strong>118</strong></td>
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</tr>
</tbody>
</table>

**MS in Communication Sciences and Disorders**

Total units required for MS: 58-60 units

**Program Description**

Employment as a Speech-Language Pathologist in California requires both a Master's degree and a credential or license. Completion of the Master's degree provides the training necessary for students to qualify for the American Speech-Language-Hearing Association's Certificate of Clinical Competence in Speech-Language Pathology, the California State License in Speech-Language Pathologist and the California Speech-Language Pathology Services Credential. The Department also prepares students to apply for the Special Class Authorization, an extension of the Speech-Language Pathology Services Credential, required to teach a classroom of students with primary disabilities in the area of speech and
language impairment (Other experiences and exams are also required; these will be described below under "Additional Information").

**Admission Requirements**

- Students must have an undergraduate degree (or its equivalent) in Speech-Language Pathology, Communication Sciences and Disorders, or its approved equivalent.
- Students must understand that admission preference is given to students whose undergraduate curriculum is equivalent to Sacramento State’s Communication Sciences and Disorders Undergraduate Curriculum.
- Students must have completed the required major prerequisite coursework as delineated in the Undergraduate Program Catalog description for Communication Sciences and Disorders at Sacramento State before beginning graduate-level coursework in Communication Sciences and Disorders. [Pre-requisites: CHAD 30, PSYC 2, Statistics, DEAF 51, or their equivalents].
- Students must have completed one university-level biological science course and one university-level course covering the basic principles of either physics or chemistry.
- Students must have an overall GPA of 2.75 and a 3.00 GPA in the major.
- Domestic applicants with foreign documents and international students (F-1 or J-1 visa applicants) must consult the Office of Graduate Studies and Global Education/International Admissions Department for specific application instructions. These students must also submit TOEFL scores. Consult the Department website for department-specific TOEFL scores.
- Successful passage of all three sections of CBEST (waived for the Fall 2021 Admissions Cycle due to COVID-19).
- GRE scores obtained in the last 5 years (waived for the Fall 2021 Admissions Cycle due to COVID-19).
- Three letters of recommendation.
- Oral and written essay.
- Resume of related work, volunteer and multicultural experience, and any scholarships, awards or other commendations.
- Documentation of completed observation hours.
- Students must understand that admission preference is given to students whose undergraduate curriculum is equivalent to Sacramento State’s Communication Sciences and Disorders Undergraduate Curriculum.

**Communication Sciences and Disorders Graduate Program Policies and Procedures**

1. A student must have a 3.0 GPA in the major in order to graduate with a Master of Science Degree in Communication Sciences and Disorders. To achieve this GPA, students may not earn a grade of less than B in any major didactic course or a grade of less than B- in any clinical practicum. Repeated course grades will either be forgiven or averaged with the new grade according to the campus graduate policy on repeating courses. Students failing to maintain a GPA of 3.00 are automatically placed on academic probation. The student then has one semester to make up the grade point deficiency or s/he will not be allowed to continue the graduate program and will be dismissed. Any student who has failed any two clinical practicum courses will not be allowed to continue in the graduate program and will be dismissed.

2. Prior to enrolling in any Clinical Practica, students must fulfill the following criteria:

   a. Proof of required immunizations consistent with Department Policy. See Department webpage for details.
   b. Complete a background check consistent with Department Policy. See Department webpage for details.
   c. Students must complete all clinical practica in the proscribed sequence. Students who have not completed a given semester’s clinical practica will not be allowed to progress into subsequent clinical practica including internships.
   d. Current certification in Cardiopulmonary Resuscitation (CPR) for Health Care Providers.

3. Students must meet clock-hour requirements for the American Speech-Language and Hearing Association (ASHA) Certificate of Clinical Competence (CCC), California License in Speech-Language Pathology and the California Speech-Language Pathology Services Credential with or without Special Class Authorization.

4. Internship requirements: Documentation of the following is required by the end of the second clinical semester.

   a. Current certification in Cardiopulmonary Resuscitation (CPR) for Health Care Providers.
   c. Pass the California Basic Educational Skills Test (CBEST)
   d. Students must complete CSAD 295I and CSAD 295M. Optional additional clinical practica are: CSAD 295S and CSAD 295P

5. Students must furnish their own transportation to off-campus practicum sites.

6. Students must explore and complete additional internship requirements as delineated by each site.

7. Clock hours from the following may be counted for the CCC and California License in Speech-Language Pathology only if the on-site supervisors have their CCCs and California License in Speech-Language Pathology.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CSAD 295I</td>
<td>Internship: Speech-Language and Hearing Services in Schools (SLHS)</td>
<td>4</td>
</tr>
<tr>
<td>CSAD 295M</td>
<td>Internship: Speech-Language Pathology in a Medical Setting</td>
<td>4</td>
</tr>
<tr>
<td>CSAD 295P</td>
<td>Internship: Speech-Language Pathology in Private Practice</td>
<td>4</td>
</tr>
<tr>
<td>CSAD 295S</td>
<td>Internship: Special Class Authorization Eligibility</td>
<td>4</td>
</tr>
</tbody>
</table>

8. Students must complete 100 supervised, direct-client-contact practica hours over forty-five work days in CSAD 295I and in the optional CSAD 295S.

9. Students must meet the clinical practicum requirements for the Certificate of Clinical Competence (CCC) and the California License in Speech-Language Pathology at the time of graduation in order to receive the Master’s Degree.

10. Students must submit a signed record of all observation hours and supervised clinical clock hours to the Department of Communication Sciences and Disorders. Students should retain multiple copies for their personal records.

11. Advancement to Candidacy: Students must file for Advancement to Candidacy per Office of Graduate Studies procedures as posted on their website.
Additional Information

Program Completion
If the Bachelor’s Degree in Communication Sciences and Disorders, or its equivalent, has been completed at another University, additional time may be needed to complete the undergraduate requirements not already met. If courses are waived at Sacramento State because they were taken at another University, the student must have an adequate number of graduate units at Sacramento State in the major to meet the MS degree requirements and ASHA graduate-level requirements.

Certificate of Clinical Competence
The Master of Science Degree from Sacramento State is designed to fulfill the academic and clinical requirements for the Certificate of Clinical Competence (CCC), which is granted by the American Speech-Language-Hearing Association (ASHA). The student must complete a Clinical Fellowship (one year of paid professional experience under supervision) and pass the appropriate PRAXIS exam before the certificate is granted.

Licensure
The Master of Science Degree from Sacramento State is designed to fulfill the academic and clinical requirements for the California License in Speech-Language Pathology. The license is required for employment in settings other than schools or federal agencies. Students must complete a Clinical Fellowship Year (one year of paid professional experience under supervision) and pass the appropriate PRAXIS exam before the license is granted.

Credential
The Master of Science Degree from Sacramento State is designed to fulfill the academic and clinical requirements for the California Speech-Language Pathology Services Credential. This credential authorizes the individual to work as an itinerant speech-language pathologist in the California public schools. In addition, the applicant may also qualify as a teacher of a special day class for students with primary disabilities in the area of speech and language impairment by acquiring the Special Class Authorization. This authorization, an extension of the Speech-Language Pathology Services Credential, requires completion of the SPHP 295S: Special Day Class Internship, passage of the Reading Instruction Competence Assessment (RICA), and passage of appropriate California Subject Matter examinations for Teachers (CSET: Multiple Subjects OR a single subject CSET in the areas of art, English, foreign language, mathematics including foundational-level mathematics, music, social science, or foundational-level general science). Note: For students with undergraduate degrees in the single subject areas listed above, completion of a subject matter program in one area or an applicable subject matter waiver program may fulfill this subject matter requirement.

For more information on these examinations, the student is referred to the CTC Exams website (http://www.ctcexams.vesinc.com/).

Candidates must pass the California Basic Education Skills Test (CBEST).

Note:
Admission into programs leading to license, credential, and certification does not guarantee that students will obtain a license, credential, or certification. License, credential, and certification requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. Additionally, licensure or credential requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet license, credential, or certification requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission or after completion that they cannot meet license, credential, or certification requirements. Information concerning license, credential, or certification requirements are available from the department graduate coordinator who can be reached at (916) 278-4867.

Minimum Units and Grade Requirement for the Degree
Units required for the MS: 58-60
Minimum Cumulative GPA: 3.0

Advancement to Candidacy
Students must advance to candidacy before they can enroll in CSAD 500C, CSAD 500P or CSAD 500T (see culminating experience below).

Program Requirements
Graduate courses are designed for students to begin in the fall semester and progress in a proscribed sequence. Students are admitted into the program in two cohorts. The first cohort (Fall Clinical Practica Cohort) begins clinical practica and coursework in the fall semester and can expect to graduate in a minimum of 4 semesters. The second cohort (Spring Clinical Practica Cohort) begins coursework in the fall semester and begins clinical practica in the spring semester. This group can expect to graduate in a minimum of 5 semesters.

Fall Clinical Practica Cohort

<table>
<thead>
<tr>
<th>Semester 1: Fall</th>
<th>Units</th>
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<tbody>
<tr>
<td>CSAD 218 Motor Speech Disorders</td>
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<tr>
<td>CSAD 223 Advanced Seminar in Child Language Disorders</td>
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</tr>
<tr>
<td>CSAD 228A Speech Sound Disorders: Concepts and Methods</td>
<td>2</td>
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<tr>
<td>CSAD 229A Practice: Speech Disorders I</td>
<td>2</td>
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<tr>
<td>CSAD 241S Practice: Hearing Screenings</td>
<td>1</td>
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<tr>
<td>CSAD 242A Methods: Language Disorders I &amp; Professional Writing-Field of Speech-Language Pathology &amp; Audiology</td>
<td>2</td>
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<td>CSAD 243A Practice: Language Disorders I</td>
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<thead>
<tr>
<th>Semester 2: Spring</th>
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<td>CSAD 217 AAC and Assistive Technologies</td>
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<tr>
<td>CSAD 221 Neurogenic Language Disorders</td>
<td>4</td>
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<tr>
<td>CSAD 222 Curriculum in Relation to Language – Learning Disabilities in School-age Children</td>
<td>3</td>
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<tr>
<td>CSAD 222B Voice and Fluency: Concepts and Methods</td>
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<td>CSAD 229B Practice: Speech Disorders II</td>
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<td>CSAD 242B Methods: Language Disorders II</td>
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<td>CSAD 219 Counseling Techniques for Speech Pathologists and Audiologists</td>
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<tr>
<td>CSAD 227 Dysphagia and the Medical Setting</td>
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### Spring Clinical Practica Cohort

#### Semester 1: Fall

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<td>Motor Speech Disorders</td>
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<tr>
<td>CSAD 223</td>
<td>Advanced Seminar in Child Language Disorders</td>
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#### Semester 2: Spring

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<td>CSAD 221</td>
<td>Neurogenic Language Disorders</td>
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### Unit Requirements

- Minimum of 8 units of internships required for the Master of Science Degree in Communication Sciences and Disorders.
- If a student elects to pursue an additional internship experience, then the student may enroll in one or more of these experiences.
- Students completing a thesis or project must enroll in two units of CSAD 500T or CSAD 500P in semester 3 AND semester 4. Students completing the comprehensive examination must enroll in 2 units of CSAD 500C in semester 4.

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1. Minimum of 8 units of internships required for the Master of Science Degree in Communication Sciences and Disorders.
2. If a student elects to pursue an additional internship experience, then the student may enroll in one or more of these experiences.
3. Students completing a thesis or project must enroll in two units of CSAD 500T or CSAD 500P in semester 3 AND semester 4. Students completing the comprehensive examination must enroll in 2 units of CSAD 500C in semester 4.
Culminating Experience

In order to enroll in CSAD 295P or CSAD 500P in semester 3 AND semester 4. Students completing the comprehensive examination must enroll in 2 units of CSAD 500C in semester 4.

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<td>Internship: Speech-Language Pathology in a Medical Setting</td>
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<td>CSAD 295P</td>
<td>Internship: Speech-Language Pathology in Private Practice</td>
<td>1, 2</td>
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<td>CSAD 295S</td>
<td>Internship: Special Class</td>
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1 Minimum of 8 units of internships required for the Master of Science Degree in Speech-Language Pathology.
2 If a student elects to pursue an additional internship experience, then the student may enroll in one or more of these experiences.
3 Students completing a thesis or project must enroll in two units of CSAD 500T or CSAD 500P in semester 3 AND semester 4. Students completing the comprehensive examination must enroll in 2 units of CSAD 500C in semester 4.

Culminating Experience

1. A student working toward a master's degree may choose as a Culminating Experience either a Thesis CSAD 500T, Project CSAD 500P, or Comprehensive Examination CSAD 500C.
2. In order to enroll in CSAD 500T, CSAD 500P, or CSAD 500C a student must have been advanced to candidacy.
3. A student may not register for CSAD 500T unless the following conditions have been met:
   • The first and second readers judge that the first two chapters of the thesis or project (literature review and methodology) are sufficiently well-developed.
   • Her/his proposal has been approved by the Culminating Experience Committee no later than the 11th week of the second clinical semester. The proposal must include the first two chapters specified above.
   • Institutional Review Board (IRB) approval has been obtained. It is possible for this process to take up to a full academic year.
   • Written approval of the first reader has been accepted by the Department Chair.
4. No subjects may be recruited until the student has registered for CSAD 500T and has received Institutional Review Board (IRB) approval.
5. A student may not register for CSAD 500P until the following conditions have been met:
   • The first and second readers judge that her/his written proposal describing the project's significance, objectives, methodology, and conclusions or recommendations are sufficiently well-developed.
   • Her/his proposal has been approved by the Culminating Experience Committee no later than the 11th week of the second clinical semester. The proposal must include the first project description specified above.
   • Written approval of the first reader has been accepted by the Department Chair.
   • Institutional Review Board (IRB) approval obtained, if applicable.
     It is possible for this process to take up to a full academic year.
6. A student enrolled in CSAD 500T or CSAD 500P may switch to the CSAD 500C Comprehensive Exam with approval from the Culminating Experience Committee and submission of a Petition for Exception form. There is no reversal of this change.

Thesis (CSAD 500T)

• Definition: A thesis is an independent research study conducted by the student under the supervision of members of the faculty. A thesis must involve a research question or hypothesis, review of pertinent literature, and the collection and analysis of data. It is the student’s responsibility to locate and recruit subjects and to collect the data, as well as to write the thesis. A thesis that includes the generation of original data is preferred; however, proposals based on file data or other secondary data sources will be considered.
• Supervision: A thesis is supervised by a committee of two or more faculty members in the Department of Communication Sciences and Disorders. The "first reader" is the chair of the committee, and the student’s primary advisor and editor. The "second reader" evaluates the thesis at the beginning, consults on the development of the manuscript as necessary, and must approve the final manuscript.
• Credit: A student enrolls in two units of CSAD 500T each semester he/she works on the thesis, up to a total of four units. If the thesis is not completed within two semesters the student may enroll in continuous enrollment (CSAD 599), if not otherwise actively enrolled, for two additional semesters. Students are allowed a maximum of three semesters past the semester of first registering in CSAD 500T to complete their thesis for a maximum of four semesters total. Students who do not finish the thesis within the first semester of enrolling in CSAD 500T will receive a grade of "Report in Progress" (RP). If a student does not complete the thesis within the four total semesters, s/he will receive a No Credit (NC) grade for the original units and must enroll in CSAD 500C for the culminating experience.

Project (CSAD 500P)

• Definition: A project is a significant undertaking appropriate to the professional fields of Speech-Language Pathology or Audiology. It must evidence originality and independent thinking, appropriate form and organization, and a rationale. It must be described and summarized in a written document that includes the project's significance, objectives, methodology, and a conclusion or recommendation. The project can be, but is not limited to, a curriculum project that contributes to the fields by enhancing communication of the subject matter or a research project that contributes to the fields by adding to the professional knowledge base.
• Supervision: A project is supervised by a committee of two or more faculty members in the Department of Communication Sciences and Disorders. The "first reader" is the chair of the committee, and the student’s primary advisor and editor. The "second reader" evaluates the project at the beginning, consults on the development of the project as necessary, and must approve the final project.
• Credit: A student enrolls in two units of CSAD 500P each semester he/she works on the project, up to a total of four units. If the project is not completed within two semesters, the student may enroll in continuous enrollment (CSAD 599), if not otherwise actively enrolled, for two additional semesters. Students are allowed a maximum of three semesters past the semester of first registering in the CSAD 500P to complete their project for a maximum of four semesters total. Students who do not finish the project within the first semester of enrolling in CSAD 500P will receive a grade of "Report in Progress" (RP). If a student does not complete the project within the four total semesters, she/he will receive a No Credit (NC) grade for the original units and must enroll in CSAD 500C for the culminating experience.
Comprehensive Exam (CSAD 500C)

- Definition: Written exam comprised of eight questions. Examinees are given one-and-a-half hours to complete each question.
- Comprehensive Exams are scheduled once per semester at the discretion of the department.
- Upon completion and review by the examiners, each question is given a grade of "Outstanding", "Pass", "Pass with Conference" or "No-Pass."
  a. "Pass" indicates a satisfactory completion of the question.
  b. "Pass with Conference" indicates a pass, but the examiner requires oral or written clarification of the answer from the student. This must be completed before the 14th week of the semester in which the exam is taken. Conferences are scheduled at the discretion of the examiner.
  c. "No-Pass" indicates an unsatisfactory answer.
- The student may receive a "No-Pass" for up to two questions without retaking the entire exam. These "No-Pass" questions must be rewritten under the direction of the examiner.
- Question rewrites must be successfully completed with a grade of "Pass" before the 14th week of the semester in which the exam is taken.
- If any rewritten question is not passed, the student receives a grade of No Credit (NC) for CSAD 500C.
- If three or more questions of the exam receive a grade of "No-Pass", the student receives a grade of No Credit (NC) for CSAD 500C.
- Student receiving a grade of No Credit (NC) for CSAD 500C must register again in CSAD 500C and retake the comprehensive exam in its entirety at the next scheduled administration.
- The same conditions for grading apply on a retaken comprehensive exam as on the first attempt. Students may take CSAD 500C no more than two times.

Criminal Justice

College of Health and Human Services

Program Description

Criminal Justice encompasses multidisciplinary examinations of crime, crime control, the justice process, and justice institutions. The discipline addresses definitions, causation, prevention, investigation, legal process, treatment, rehabilitation, and research relating to crime and justice as well as the institutions of the justice system and their administration.

The comprehensive program at Sacramento State covers every aspect of the field. Courses are offered which span the entire system of justice administration in both public and private sectors.

The Division of Criminal Justice:

- Seeks to identify and increase understanding of major social issues related to crime, offenders, prevention and control, and victims.
- Features a large and diverse faculty combining scholars from a variety of disciplines who have contributed extensively to the justice field with practitioners who have many years of experience in justice administration.
- Offers a flexible undergraduate major, including the option of internship, and highly-structured advising. Advising allows the student to shape an undergraduate program specifically to prepare for employment in multiple areas of criminal justice, advanced study in criminal justice, or law school.
- Features a Master of Science program that offers students a generalist degree focused on a variety of areas within the field of Criminal Justice including, but not limited to, criminological theory and research methods, corrections, policing, law and justice, restorative justice, victimology, juvenile justice, white collar crime, terrorism, and comparative criminal justice. In addition, we offer experimental courses in areas with a growing body of research such as the mentally ill and the criminal justice system and emergency management.

Many graduates find positions with various federal, state, and local criminal justice agencies. Others have pursued advanced study in criminology and law. Employment opportunities for Criminal Justice majors have remained strong for the past decade, both with government agencies and in private security, and future demand appears assured.

The Criminal Justice program at Sacramento State is one of the most highly sought-after programs in Northern California. Due to the large number of applications, the program is now officially impacted. Students wishing to become Criminal Justice majors must complete a series of required lower division courses and then apply for admission to the program. It is highly recommended that interested students speak with the Criminal Justice Student Advising Center as early as possible.

Degree Programs

BS in Criminal Justice (p. 693)

Minor in Forensics Investigations (Chemistry and Biology Majors Only) (p. 696)

Certificate in Law Enforcement (p. 696)

MS in Criminal Justice (p. 697)

Career Possibilities

Investigative positions, most with law enforcement authority, with federal, state, and local agencies such as the FBI, ATF, Secret Service, DEA, Homeland Security Administration, state level Departments of Justice, Alcohol Beverage Control, Department of Motor Vehicles, District Attorney’s and Public Defender’s Offices · Includes uniformed police officer positions within local and state governments, such as: police officer, deputy sheriff, highway patrol, and natural resources officer, including crime scene specialists, and crime analysts · Correctional peace officer positions including state and local probation officers and parole agents within adult and juvenile correctional systems · Includes non-sworn correctional counselors and administrators. Private corporate security agents and investigators such as those employed by banks and insurance companies and transportation companies, including loss-prevention specialists · Victim services and officer services positions within a wide variety of social service agencies related to crime, justice, and rehabilitation · In addition, graduates can pursue advanced degrees in law or research disciplines, and may apply to military officer candidate schools.

Contact Information

Ernest Uwazie, Division Chair
Criminal Justice Business Office, Alpine Hall 137
(916) 278-6487

Destiny Effiong, Coordinator of Criminal Justice Advising Center
Alpine Hall 133
(916) 278-6485
which prepare students for the study and practice of law.

The areas of study encompass these recommendations and suggest courses which give training in these skills. The following topics are taught by attorneys licensed by the bar. In addition, the major in law and constitutional theory courses among its electives. The department offers intern placements in law related positions. Law courses are instructed in the case study method used in law schools. This instruction allows a student to determine their level of interest and aptitude for legal studies while still an undergraduate. Several members of the teaching faculty are attorneys, and law courses are taught by attorneys licensed by the bar. In addition, the major in criminal justice offers a general orientation to the justice field and provides students a suggested pre-law course of study engineered to provide an excellent foundation for the study of law.

Law as a Career

Lawyers are often called upon to fill many varied and complex roles. At various times they function as advocates, social planners, and mediators. Because society turns most frequently to the legal profession when it looks for a method of balancing changing conditions and traditional values, lawyers are social planners. Lawyers play a weighty role in our society and have a tremendous responsibility, not only to the citizenry which they serve, but also to the law itself, and to the concept of justice, to which they must be committed.

Pre-Law Education

The student's cumulative undergraduate GPA and his/her score on the Law School Admissions Test (LSAT) are the primary factors on which law schools base their admissions decisions. The importance of these factors cannot be overestimated. Assuming that you qualify in this manner for admissions, your undergraduate course of study plays a role in preparing for the study and practice of law. Students interested in law school should visit the Law School Admission Council's website www.lsac.org (http://www.lsac.org/) early in their college careers in order to learn about the process of preparing for and applying to law school.

Undergraduate Program

It would be unwise and, perhaps, impossible to prescribe a specific course of study and assert that it is the best one can receive in preparation for entering law school. Therefore, there is no established major for pre-law students. In 1988, the Association of American Law Schools (AALS) expressed the view that the "quality of education is concerned with the development of basic skills and insights. It thus involves education for:

1. comprehension and expression in words;
2. critical understanding of the human institutions and values with which the law deals;
3. creative power in thinking;
4. knowledge of computers and word processing."

While no one major embraces all of these characteristics and, while personal development in these areas is an individualistic effort molded to one's particular strengths, weaknesses, and interests, the University offers numerous courses which give training in these skills. The following areas of study encompass these recommendations and suggest courses which prepare students for the study and practice of law.

- **Business:** When an individual becomes a lawyer, he/she also becomes a member of the business community; hence, classes in business are beneficial to the pre-law student. Competence in this field can make the difference between an organized, successful lawyer and a bewildered, ineffective one. Furthermore, the practical judgment one develops in business classes frequently allows one to penetrate the legal maze and to quickly reach the important issues of any case.

  - **Computer Science:** In an age where information storage and problem solving is increasingly accomplished by computers, a lawyer cannot afford to venture into the future without a working knowledge of computers.

  - **Criminal Justice:** The Division of Criminal Justice includes three law courses in its core curriculum and offers the option of additional law and constitutional theory courses among its electives. The department offers intern placements in law related positions. Law courses are instructed in the case study method used in law schools. This instruction allows a student to determine their level of interest and aptitude for legal studies while still an undergraduate. Several members of the teaching faculty are attorneys, and law courses are taught by attorneys licensed by the bar. In addition, the major in criminal justice offers a general orientation to the justice field and provides students a suggested pre-law course of study engineered to provide an excellent foundation for the study of law.

  - **Economics:** As the AALS asserts: "Economics is a science that calls upon the student to master patterns of thought, to explore questions of causation and to probe potentials for solutions." Since many legal problems ultimately involve economic issues, a study of economics will benefit the pre-law student.

  - **History and Government:** We are a product of yesterday in our society, our customs and our laws. Without a general understanding of history and how it relates to our present state, the lawyer cannot appreciate the intimate relationship laws have with our culture. By failing to comprehend the relationship between our society, its governmental institutions, and its laws, one risks not understanding certain laws intelligible only in terms of their historical and institutional significance.

  - **Logic and Mathematics:** Since the law is abstract, those considering law school need training in the reasoning powers essential for dealing with abstract concepts. The study of logic and mathematics provides the practice needed for developing the ability to think logically.

  - **Oral and Written Communication:** The lawyer is primarily a communicator; whether in the courtroom or in the legislature, as a counselor or negotiator, he/she must know how to communicate on many levels with precision and style.

  - **Philosophy:** A sizable number of students of philosophy go on to law school and there are now many successful philosopher-lawyers. This is no mere coincidence. Legal questions often raise issues of profound philosophical import. And the two fields share many of the same methods of reasoning and argumentation. The Philosophy Department's Major Concentration in Applied Ethics and Law is specifically designed to prepare prospective students for the intellectual rigors of law school.

  - **Science and Engineering:** Students who concentrate in the sciences or in engineering develop the ability to think clearly and concisely. The rigor and discipline required in these courses is valuable training for the law school years.

  - **Social Sciences:** Since both law and social science deal with behavior and its implications, lawyers draw on the social sciences for an understanding of human behavior. Applying the tools of the other social sciences to the practice of law enhances the effectiveness of the attorney.
Obviously, one cannot receive degrees in all of these areas; it is suggested that the pre-law student choose a major which interests him/her and supplement this curriculum with as many courses from other areas as possible. In addition to this, the pre-law student should read widely in areas outside the major.

**Pre-Law Student Organization**

The Phi Alpha Delta Law Fraternity International has been formed by pre-law students to meet the needs of students interested in preparing for a career in law. CSU, Sacramento has an active Phi Alpha Delta chapter and information about joining can be acquired by visiting one of the campus pre-law advisors.

**Grades**

Good grades are essential to those interested in being accepted at a well regarded school. However, it should be clear that one does not benefit from being so grade conscious that the major criterion for course selection becomes the likelihood of receiving an “A.” Tough, demanding professors and courses are essential for training the mind to perform well under the pressures of law school. Challenging, thought-provoking courses are the best way to prepare for the LSAT, for success in law school and as a member of the legal profession. Moreover, when undergraduate transcripts are viewed by law school admission committees, a great deal of attention is given to the difficulty and the desirability of the courses chosen by the student. For law school admission, grades of “I” (incomplete) or “W” (Withdrawal) are not included in computing the overall GPA. However, a grade of “WU” or “NC” (No Credit) is counted as an “F,” and if a course is repeated, the two grades are averaged. Students should also note that failure to complete work for a grade posted as “I” will result in the “I” converting to an “F” after two semesters.

**LSAT**

The LSAT is the second major factor considered by law schools in determining admissibility. It is administered by the Law School Admission Council (LSAC). Everything a student needs to know about the LSAT is available at www.lsac.org (http://www.lsac.org/). The test measures abilities and skills related to problem identification, analysis, logical reasoning, and reading. In addition, the LSAT includes a written essay, copies of which will be sent to individual law schools to enable them to evaluate a candidate’s writing ability. Because many law schools consider the LSAT as influential, or more influential, than the GPA, it is important that students prepare for the test very carefully. Students who believe they may qualify for a fee waiver because of serious financial need should apply for the LSAC fee waiver at www.lsac.org. The fee waiver will cover the student’s LSAT and Credential Assembly Service fees as well as provide materials that will enable the student to prepare for the LSAT.

There are a number of preparation courses available for students intending to take the LSAT. Students are advised to investigate particular review classes and to assess their ability to prepare successfully for the LSAT without benefit of these often costly courses. The best LSAT preparation materials are those published by the LSAC.

**Letters of Recommendation**

Most law schools require between one to three letters of recommendation from individuals who can comment on the applicant’s potential as a law student. The individuals selected to write letters of recommendation should be able to comment extensively on the applicant’s academic capabilities. And, obviously, the evaluation should be a positive one. Letters should also discuss the applicant’s ability to comprehend, to communicate, and to critically analyze concepts.

**Credential Assembly Service**

Student’s must register for the Credential Assembly Service (CAS) at www.lsac.org (http://www.lsac.org/) in order to submit applications for American Bar Association accredited law schools. There is a fee associated with registration for the CAS which is waived if the student is approved for the LSAC fee waiver. The CAS compiles a report that contains the student’s personal information, LSAT score(s), transcripts, letters of recommendation and, if prepared, recommender evaluations. The student completes each individual law school application online using their account at www.lsac.org (http://www.lsac.org/). Once the student has submitted the application the law school requests the CAS report and it is transmitted electronically to them by the LSAC.

**Personal Statement**

Most law schools require the applicant to submit a personal statement in which the applicant tells the law school something about the applicant’s background, the reasons why the applicant wants to study law, and, in some instances, what the applicant hopes to do following law school. This is an extremely important component of the application. It provides the student with an opportunity to share their personal background and experiences with the law school admissions committee. Students should take time to carefully craft the personal statement and should seek advice from trusted friends, professors and their pre-law advisor to help them in the writing process.

**Pre-Law Advisors**

Laurie Kubicek, Criminal Justice
Alpine Hall 103, 278-5066

Russell Loving, Criminal Justice
Alpine Hall 110, 278-6473

Stephanie Mizrahi, Criminal Justice
Alpine Hall 107, 278-6387

Jennifer Noble, Criminal Justice
Alpine Hall 209, 278-5706

CRJ 1. Introduction to Criminal Justice and Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Reviews the problem of crime and the societal response to criminals. Institutions discussed are those intended to discover the crime and the criminal and those designed to deal with the criminal, the victim, and society, once the criminal has been labeled. Finally, the bureaucracy of crime and its measurement as a social phenomenon are discussed.

CRJ 2. Law of Crimes. 3 Units
Term Typically Offered: Fall, Spring
Introduction to the case method of studying criminal law. Understanding and correlating the common law crimes and substantive law crimes. Study and emphasis on the classification and nature of crimes, the requisite elements of the major common law felonies and criminal responsibility of various persons involved in crime.
CRJ 4. **General Investigative Techniques.** 3 Units  
Term Typically Offered: Fall, Spring

Techniques involved in the investigation of crimes; interview of victims and witnesses; questioning of suspects; organization and procedure in the investigation of crimes; crime scene searches; surveillance, use of scientific aids; and sources of information.

CRJ 5. **The Community and the Justice System.** 3 Units  
Term Typically Offered: Fall, Spring

Examines complex, dynamic relationships between communities and the justice system in addressing crime and conflict with emphasis on the challenges and prospects of administering justice within a diverse, multicultural population and the roles played by race, ethnicity, gender, religion, sexual orientation, age, social class, culture, and justice professionals in shaping relationships within the justice system. Special topics include crime prevention, restorative justice, and conflict resolution and pure justice.

CRJ 101. **Introduction to Criminal Justice Research Methods.** 3 Units  
Prerequisite(s): Restricted to Criminal Justice majors  
Term Typically Offered: Fall, Spring

Introduction to research methodologies used in the social sciences, with a special emphasis on those methods most often used in the study of crime and criminal behavior, police/court systems, and correctional institutions, policies, and programs. Students will acquire the knowledge and skills necessary to understand, critically analyze and assess descriptive and quantitative research studies. Topics include the roles of theory and ethics in research, hypothesis testing, and research design.

CRJ 102. **Crime And Punishment.** 3 Units  
Prerequisite(s): Criminal Justice major  
Term Typically Offered: Fall, Spring

This course provides an overview of the causes, consequences and responses to crime in society, with special emphasis on the use of theory and research to guide criminal justice policy and practice. The course surveys major theories of crime causation, examines consequences of crime on individuals and societies, and explores various perspectives on the appropriate role of criminal sanctions and offender treatment in modern day systems of justice.

CRJ 105. **Delinquency, Prevention and Control.** 3 Units  
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.  
Term Typically Offered: Fall only

Comprehensive juvenile delinquency planning process and its contribution to effective delinquency prevention and control; new roles for delinquency control agencies (police, courts, and corrections); the Youth Service Bureau; innovative strategies in delinquency prevention programming.

CRJ 106. **Analysis of Career Criminals.** 3 Units  
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.  
Term Typically Offered: Fall, Spring

Observation and analysis of criminal career patterns using the following approaches: anthropological, autobiographical, psychological, psychiatric, and sociological. The examination of career criminal behavior patterns will focus upon: the process of induction into criminal activity; the deviant orientation of the professional criminal; the organization, lifestyle, and activities of the specialized criminal; and the methodological problems associated with the measurement of recidivism.

CRJ 108. **Domestic Crime and Violence.** 3 Units  
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.  
Term Typically Offered: Fall, Spring

Detailed examination of the multiple causes, effects and dynamics of crime against children, spouses, domestic partners and the dependent elderly, the response of criminal justice agencies to these crimes and the impact of these crimes on their victims.

CRJ 109. **Media, Crime, and Criminal Justice.** 3 Units  
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.  
Term Typically Offered: Fall only

Analyzes the social construction of crime by news and entertainment media and introduces criminal justice students to the manner in which the media influences and shapes crime in their own society and in the criminal justice system. Analyzes images of crime and the criminal justice system that are presented through the major mass media within America, including a detailed analysis of media institutions, American pop culture, and the construction of crime and justice. Exposes students to a new way of looking at crime problems and provide them with a deeper understanding of how crime and the criminal justice system are both socially constructed by the news and entertainment media.

CRJ 111. **Women and the Criminal Justice System.** 3 Units  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall only

Survey of the roles of women as offenders, victims and employees in the criminal justice system. Examines statistics, research and the literature as it relates to female crime. Evaluates current patterns and practices of law enforcement, criminal courts and corrections relative to women as offenders, victims, and employees.

CRJ 112. **Gangs and Threat Groups in America.** 3 Units  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall, Spring

Examination of criminal organizations in America. The problems posed by "anti-social groups," their structure and their history in contemporary American society. The spectrum of social sciences is employed in an examination of "illegal groups" and such issues as aggression and group dynamics. Styles such as street gangs, prison gangs and traditional organized crime are defined and studied.
CRJ 114.  Sexual Offenses and Offenders.  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall, Spring

Exploration of relevant factors and dimensions of sexual offenses and offenders related to the Criminal Justice system, its cliental and practitioners.

CRJ 115.  Violence and Terrorism.  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall, Spring

Systemically examines political violence, responses by government institutions to that violence and implications of both for the administration of justice. Content is structured along a continuum, ranging from small scale violence to mass violence - assassinations, terrorism by sub-national and transnational organizations, state terror and genocide. In recent years political violence has progressively drawn the American governmental institutions, particularly justice agencies, into the global picture of violence committed by both domestic and international terrorists.

General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall, Spring

Examines concepts, principles, techniques of conflict resolution and restorative justice in contemporary US legal system, global peacebuilding, across cultures, and comparative justice practices. The centerpiece is a classroom simulation that introduces students to theoretic analysis and practical knowledge on resolution of conflicts and crime. Addresses nonviolent responses to inter/intra state and community conflicts. Topics include negotiation, mediation, victim offender reconciliation, alternative dispute resolution (ADR), circle sentencing, transitional justice, peace treaty, transformative justice, intergroup dialogues, etc.

CRJ 117.  American Criminal Justice and Minority Groups.  
General Education Area/Graduation Requirement: Race & Ethnicity  
Graduation Requirement (RE), GE AREA D  
Term Typically Offered: Fall, Spring

Course examines the origins of racial/ethnic/gender/sex discrimination and disparities in the US justice system. Additionally, course provides a critical examination of the processes and outcomes of the justice system by reviewing the major theories of crime and number of minorities reported in crime data. Using discussions about various criminal justice policies and their impact on minority groups, the course assesses the changing dynamic of race relations and diversity in society and their influences on justice administration.

CRJ 118.  Drug Abuse and Criminal Behavior.  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall, Spring

Sociogenic review of the case histories and life styles of selected juvenile and adult offenders with a history of drug abuse. An inquiry into the drug scene, "street" drugs, an examination of people who have abused drugs and have been guilty of delinquent or criminal acts for the purpose of determining the known and identified relationships between drug abuse and crime, and probing the many unknown relationships. A sustained and disciplined examination of the main issues and problems by the use of case studies, discussion groups, and student involvement.

CRJ 121.  The Structure and Function of the American Courts.  
Term Typically Offered: Fall, Spring

Overview of the Federal and State court structures including jurisdiction, venue, roles of court participants, due process and post arrest procedures employed in adjudication, trial process, appellate review. Constitutional issues such as discretion, indigent rights, right to counsel, discovery, pleas, bail and preventive detention, competency, evidence suppression, double jeopardy, and speedy trial will also be addressed.

CRJ 123.  Law of Arrest, Search and Seizure.  
Term Typically Offered: Fall, Spring

Current and recent developments relating to arrest, searches, and seizures; study of constitutional rights predominately associated with the Fourth, Fifth, Sixth and Fourteenth Amendments as related to criminal justice and its administration – warrants, warrantless seizures, exclusionary rule, confession, eye-witness identification, electronic surveillance, entrapment, and state variance with federal rules. Case study method law course.

CRJ 125.  Law of Responsibility.  
Term Typically Offered: Spring only

Substantive criminal law of responsibility and culpability. Topics include legal cause, mens rea, negligence, intent and its equivalents, motive, immaturity, mental incapacitates, mistake, and affirmative defenses including authority and privilege as found in American statute and case law. A case method law course.

CRJ 126.  Law of Evidence.  
Term Typically Offered: Fall only

Law of evidence as codified and its complimentary interpretations by the courts. Topics include the admission and exclusion of evidence, relevance, the hearsay rule and its exceptions, the use of writings and demonstrative evidence, judicial notice, order of proof and presumptions, and issues relating to witness competency and privileges. Constitutional exclusions and their impacts are not covered.

Term Typically Offered: Fall, Spring

Overview of legal concepts and principles affecting the adjudication of delinquent children in juvenile and adult court systems, develops the ability to read and analyze difficult legal issues relating to juvenile law, and provides the information required to evaluate the effectiveness of the juvenile court system in the context of its stated rehabilitative goals and the potential impact of a shift in focus to a more retribution-oriented structure.
CRJ 128. Administrative Law for Public Safety Personnel. 3 Units
Prerequisite(s): CRJ 121 and CRJ 123; restricted to CRJ majors or chair permission
Term Typically Offered: Spring only
Administrative law is the study of the adjudicatory and law making processes that take place within administrative agencies of the executive branches of government. Further, it is a study of the legal relationship between those agencies and the legislature, the courts, and private parties. Particular attention will be paid to the Federal Administrative Procedures Act, and the California Administrative Procedure Act.

CRJ 130. Fundamentals of Corrections. 3 Units
Prerequisite(s): Restricted to declared CRJ majors or minors or department chair permission.
Term Typically Offered: Fall, Spring
Overview and critical analysis of contemporary correctional theory and practice. Comparison of mainline American corrections with historical, cross-cultural, philosophical and non-traditional views of corrections. Controversial issues in contemporary corrections, including prisoner rights, victimization, the death penalty, unions, institutional corrections, community corrections, future of corrections, correctional careers, and administration and staffing of correctional programs.

CRJ 131. Correctional Institutions. 3 Units
Prerequisite(s): CRJ 101, CRJ 102 and CRJ 130; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring
Role and function of the correctional institution in the administration of criminal justice. A review of institutional procedures: reception, classification, program assignment, mass custody, treatment programs, and release, including parole and discharge. The inmate social system and its relationship to the official world that contains it. The following topics will receive special attention: the determinate sentence; the confinement of repetitively violent offenders; the death penalty and its impact on prison management, inmate social services; prison reform; and the stresses experienced by institutional personnel.

CRJ 134. Community Based Corrections. 3 Units
Prerequisite(s): CRJ 101, CRJ 102 and CRJ 130; restricted to declared majors or chair permission.
Term Typically Offered: Fall only
Role of local and state government in the development of community-based correctional programs; regional detention facilities; recent trends in jail organization and management; ex-offenders and employment; the impact of community corrections on the criminal justice system.

CRJ 136. Corrections Administration. 3 Units
Prerequisite(s): CRJ 101, CRJ 130 and CRJ 160; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring
Concepts of administration; corrections as a component of criminal justice; organization and management of correctional services and correctional institutions for delinquent youth and adult offenders; probation and parole; and the legal and political contexts of corrections.

CRJ 141. Police and Society. 3 Units
Prerequisite(s): Restricted to declared CRJ majors or minors or department chair permission.
Term Typically Offered: Fall, Spring
Examination of the origins, philosophy, objectives and priorities of the police service in the U.S. A holistic analysis of political, social, economic, legal and other factors impacting the relationship between the police and the society they serve. Police use of discretion, police roles, police and minority groups, police and protest groups, police brutality, and police ethics are also studied.

CRJ 142. Police Administration. 3 Units
Prerequisite(s): CRJ 101, CRJ 141 and CRJ 160; restricted to declared majors or chair permission.
Term Typically Offered: Fall only
Concepts of organization and management; relationships between police agencies and the public; other criminal justice agencies, and other agencies of government; organization for delivery of police services: first response, crime investigation, youth services, vice, communications, and information management.

CRJ 144. Contemporary Issues in Police Administration. 3 Units
Prerequisite(s): CRJ 101 and CRJ 141; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring
Roles of police in a democratic society; analysis of public disobedience to law; racial and ethnic group relationships with police; public, official, and police corruption; police discretion; professionalism; development of criminal intelligence.

CRJ 151. White Collar Crime. 3 Units
Prerequisite(s): Junior/Senior status, Criminal Justice or Fire Service Management major or chair permission.
Term Typically Offered: Fall, Spring
Introduces students to a variety of white collar crime issues, including definitional complexities, the causes, frequency and impact of economic crime, and victim and offender profiles. Governmental corruption, organizational fraud, consumer and environmental offenses, anti-trust violations and international schemes will be covered. Students will also become familiar with methods used to investigate, prosecute and sentence white collar offenders. Policy considerations will be discussed for controlling national and international white collar crime.

CRJ 152. Interviewing and Detection of Deception. 3 Units
Prerequisite(s): CRJ 102; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring
Principles and techniques of interviewing and detection of deception studied from communication, physiological and psycho-social points of view. Introduction to the use of the polygraph; laws pertaining to confessions and admissions.
CRJ 153. Advanced Criminal Investigation. 3 Units
Prerequisite(s): CRJ 102; restricted to declared CRJ majors or declared Forensic minor or have chair permission.
Term Typically Offered: Fall, Spring

Principles involved in the investigation of crimes; utilization of scientific aids in obtaining information from physical objects; concepts in obtaining information from and about people; concept of reconstruction of crime and profile of suspect; development of leads; investigative problems in major crimes; special problems in crime investigation.

CRJ 154. Introduction to Physical Evidence. 3 Units
Prerequisite(s): CRJ 102; restricted to declared CRJ majors or Forensic Investigation minor or chair permission.
Term Typically Offered: Fall, Spring

Provides an overview of the role of science in collecting and evaluating physical evidence as a component of the criminal investigation and legal processes. Various operations in the examination and interpretation of physical evidence are examined with emphasis on the role of science in supporting the investigator and in the litigation process. Suitable for both science and non-science majors.

CRJ 156. Introduction to Crime and Intelligence Analysis. 3 Units
Prerequisite(s): CRJ 101; must be a declared CRJ major or have chair permission.
Term Typically Offered: Fall, Spring

Introduction to crime and intelligence analysis with a special emphasis on those methods most often used in the study of crime and criminal behavior patterns. Students will acquire the knowledge and skills necessary toward understanding crime analysis, intelligence analysis and mapping geospatial data. Topics include theory, the history of crime analysis, crime analysis technologies, intelligence analysis, and types/functions of crime analysis.

CRJ 160. Justice and Public Safety Administration. 3 Units
Prerequisite(s): restricted to declared CRJ majors or minors or department chair permission.
Term Typically Offered: Fall, Spring

Examines the nature and development of public safety and criminal justice organizations in American society with attention to how the unique functions performed by these agencies has shaped and developed their nature. Particular emphasis is placed on understanding the unique problems generated by administration of bureaucratic, public agencies in a highly politicized environment. Examines the influence of social and political factors on justice and public safety organizations.

CRJ 162. Intergovernmental Relations, Finance and Budgeting for Public Safety Personnel. 3 Units
Prerequisite(s): CRJ 160 or PPA 100; Junior or Senior standing; must be a Criminal Justice or Fire Service Management Major.
Term Typically Offered: Fall only

An examination of the structure, organization and management of state and local government with particular attention to the interplay between governmental agencies that is focused on the operations and management of public safety agencies. Government leadership models, such as mayor and city manager will be examined. Finance, the state and local budgets, taxation, revenue and spending will be addressed.

CRJ 163. Leadership in Criminal Justice and Public Safety. 3 Units
Prerequisite(s): CRJ 160; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Addresses role of leadership in shaping and directing complex justice and public safety organizations. Leadership styles, roles, communication, group dynamics and organizational culture are examined and applied to organizational maintenance, adaptation, and change. Also addresses the role of employee organizations and personal practices in shaping leadership options and styles in public agencies. Particular attention is focused on implementing leadership in the bureaucratic and public agencies typical to the fields of criminal justice and public safety administration.

CRJ 165. Planning for Justice and Public Safety. 3 Units
Prerequisite(s): CRJ 101, CRJ 102 and CRJ 160; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Spring only

Addresses planning in complex justice and public safety organizations. Focuses on the role of planning in preparing for change, maximizing utilization of resources and addressing crime and public safety. Emphasis is placed on the use of planning to unify fragmented public agencies at multiple levels of government in preparing for disaster, controlling crime, and assuring public safety.

CRJ 166. Personnel Administration in Criminal Justice and Public Safety Organizations. 3 Units
Prerequisite(s): CRJ 160; declared CRJ major or chair permission
Term Typically Offered: Fall, Spring

This course provides an understanding of history, theories, laws, and practices related to contemporary as well as future criminal justice/public safety personnel administration and practice.

CRJ 167. Collective Bargaining and Arbitration Issues in Public Safety. 3 Units
Prerequisite(s): Must be a declared CRJ major or chair permission.
Term Typically Offered: Fall, Spring

This course is designed to provide the public safety student and/or criminal justice student, practitioner and/or administrator with an understanding of public safety personnel practices in the area of collective bargaining. Labor-management relations, dispute resolution, arbitration, and the various laws that govern labor-management relations, at all levels of government, will be covered.

CRJ 168. Justice and Public Safety Information Systems. 3 Units
Prerequisite(s): Restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

Introduction to criminal justice and public safety information systems. Provides a framework for understanding the needs, types, capabilities and applications of information systems to the field. Current uses are surveyed and future potential applications are examined.
CRJ 169. Emergency Management. 3 Units
Prerequisite(s): CRJ 164; Criminal Justice or Fire Service Management major, or instructor permission.
Term Typically Offered: Fall, Spring
Course reviews the history of emergency management, the current systems in place to manage mitigation, preparedness, response and recovery and the coordination and communication required to do so. Diverse responses to various emergencies will be presented with detailed examination of the roles of various levels of government and integration required. The formal declaration of emergencies and federal aid procedures, agencies involved and their administration will be covered.

CRJ 170. Human Trafficking and Slavery. 3 Units
Prerequisite(s): Junior/Senior level and CRJ majors only; or department chair permission.
Term Typically Offered: Fall, Spring
The course explores the international and domestic legal framework that defines human trafficking and slavery and analyzes the major theories and current research on related causes and risk factors. The role of involvement of transnational organized criminal groups and vulnerability of social groups are discussed. Lastly, the course provides a critical analysis of effective strategies in victim identification, protection, prosecution, and prevention as instrumental components in assessment of crime control policy.

CRJ 172. Comparative Criminal Justice Systems. 3 Units
Prerequisite(s): Junior status; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring
Examines representative criminal justice systems from a variety of nations with emphasis on the role of history, culture, social and political values and economic institutions in shaping institutions of justice including law, police, courts, corrections, and juvenile justice systems and practice. Attention is paid to conflict and cooperation between criminal justice systems and ideologies that occur when peoples of different cultures and systems are in close proximity.

CRJ 174. Criminal Justice Systems of the Future. 3 Units
Term Typically Offered: Fall, Spring
Societal structures, definitions of deviance and criminal behavior, social problems related to criminality, the nature of systems for handling criminals and sanctions in future societies.

CRJ 176. Security Systems. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring
Purposes, functions and historical development of industrial security in the U.S. Co-responsibilities of security personnel and line supervisors; principles of physical security, document protection, pilferage prevention and employee programs for plant and inventory protection. Survey of related laws and cooperating agencies of government.

CRJ 181. Topics in Criminal Justice. 3 Units
Prerequisite(s): CRJ 100 and CRJ 110; must be a CRJ major.
Term Typically Offered: Fall, Spring
Topics of interest to criminal justice students and faculty will be offered as the need arises.
Note: May be repeated provided the topic is different.

CRJ 190. Contemporary Issues in Criminal Justice. 3 Units
Prerequisite(s): CRJ 101, CRJ 102, CRJ 121, CRJ 130, CRJ 141, CRJ 160; restricted to declared CRJ majors or chair permission with senior status, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Examination of current issues in criminal justice with an emphasis on the application of law, management, practice and ethics to analysis of contemporary criminal justice policy. The culminating event for criminal justice majors with an emphasis upon written and oral communication, research and analytical thinking.

CRJ 191. Topics in Criminal Justice Administration. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

CRJ 195. Internship. 1 - 6 Units
Prerequisite(s): Restricted to declared majors or chair permission and senior status
Term Typically Offered: Fall, Spring
Supervised work and experience in justice or public safety related agencies designed to expand the student’s understanding of techniques, procedures and problems that occur in these agencies. Supervision provided by both faculty and agency personnel.
Note: may be repeated for credit

Credit/No Credit

CRJ 196. Experimental Offerings in Criminal Justice. 2 - 4 Units
Prerequisite(s): Restricted to declared majors and minors or instructor permission.
Term Typically Offered: Fall, Spring
To be offered in the various fields of Criminal Justice in response to student needs.

CRJ 196A. The Mentally Ill Individual in the Criminal Justice System. 3 Units
Term Typically Offered: Fall, Spring
Overview and analysis of how mentally ill individuals interface with the criminal justice system, from first contacts with the police, to their entry into the jails, courts, and prisons, and then reentry into the community via parole and probation. The history of how the mentally ill became so embedded in the criminal justice system, whether mental illness has become criminalized, evidence-based mental health programs, and treatment for this population will be covered.
CRJ 196B. Law of Homeland Security and Emergency Management. 3 Units

Term Typically Offered: Fall, Spring

Current and historical developments relating to the laws surrounding homeland security and emergency management. Topics include the legal framework for the U.S. domestic preparedness and national incident management system, the role of the military in emergency response and homeland security, and the legal jurisdiction and authority of federal, state, and local public safety, as well as private sector institutions, in terrorism prevention and response. Course utilizes cases, statutes, executive orders, government reports, and scholarly research.

CRJ 196S. Ethics and the Criminal Justice System. 3 Units

Prerequisite(s): CRJ Majors or department chair permission

Term Typically Offered: Fall, Spring

Purpose of course is to learn various ethical considerations within the criminal justice system. Course will briefly explore the classical, philosophical foundations of ethics and proceed into surveying modern, ethical decision-making among the various criminal justice components. Criminal justice system ethics and decision-making of the police, prosecution, courts, corrections, and probation/parole from a managerial standpoint and a line perspective will be examined and critiqued. Emphasis will be placed on viable, practical solutions to ethical conundrums.

CRJ 198. Co-Curricular Activities. 1 - 3 Units

Prerequisite(s): Permission of the sponsoring professor and the Division Chair.

Term Typically Offered: Fall, Spring

Co-Curricular activities related to the subject matters and intellectual concerns of the Division of Criminal Justice, including service learning, related community service assignments, and service on University and community policy making bodies.

Credit/No Credit

CRJ 199. Special Problems. 1 - 3 Units

Prerequisite(s): Restricted to declared CRJ majors or chair permission and senior status.

Term Typically Offered: Fall, Spring

Individual projects or directed reading, open only to those students who appear competent to carry on individual work.

Credit/No Credit

CRJ 200. Research Methods in Criminal Justice. 3 Units

Prerequisite(s): Classified graduate status, satisfactory completion of a basic statistics course.

Term Typically Offered: Fall, Spring

Research theory and methodology in Criminal Justice; research designs; conceptual models; design and preparation of Master's thesis prospectus.

Note: Graduate Writing Intensive (GWI) course.

CRJ 201. Advanced Research Design and Data in Criminal Justice. 3 Units

Prerequisite(s): CRJ 200

This course provides applied explanations of advanced research designing, use of data development strategies, and techniques for effective data analysis using statistical software. Topics generally covered include: (1) issues and techniques in advanced research design with emphasis on theory testing and hypothesis formulation; (2) measurement, data collection strategies, reliability and validity of measures and results, sampling, surveys; and, (3) examination of qualitative versus quantitative research techniques, working with observational data, field research issues, and triangulation.

Note: Required core course

CRJ 205. Criminal Justice Policy Analysis. 3 Units

Prerequisite(s): Classified Graduate status, CRJ 200, CRJ 201, CRJ 255, and CRJ 260.

Term Typically Offered: Fall, Spring

Examination of responses of the criminal justice system to major current issues with attention to factors influencing their effects; review of uses and limitations of various responses; appraisal of the consequences of various criminal justice policy alternatives.

CRJ 207. Criminal Justice Research and Program Evaluation. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Systematic review of selected evaluations of major criminal justice programs, demonstration projects, experiments, and innovations; introduction to basic techniques of interpretation and analysis of research findings to determine outcomes.

CRJ 210. Critical Examination of Law and Justice. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Examines the multiple challenges to that model, including legal realism, the sociology of law, legal formalism, critical legal studies, and critical race theory. Will critically examine the intersection of the American legal tradition with issues concerning the possibility and implementation of social justice strategies in diverse, and increasingly global contexts.

CRJ 220. Politics of Crime Legislation. 3 Units

Prerequisite(s): Classified Graduate status, CRJ 200, CRJ 201, CRJ 255, and CRJ 260.

Term Typically Offered: Fall, Spring

Familiarizes students with the legislative process, the performance of the legislature as it relates to the handling of crime bills and the role of interest groups and politics in the process of initiating and passing laws. Topics include: theoretical models of lawmakers, factors in legislative decision-making, the politics of crime legislation, ethics in politics, and how people influence and use the legislative process.

CRJ 230. The Prison. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Contemporary penal institutions will be studied using the literature in the social sciences, the biographies of prisoners, and the writings of prison critics.
CRJ 231. Graduate Seminar in Corrections. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Provides a historical analysis and discussion of the current state of corrections and correctional management. Theories of punishment will be addressed and management techniques will be covered. Goes beyond concepts of institutionalized corrections to explore modern correctional alternatives, correctional policy and special topics relevant to corrections.

CRJ 233. Psychodynamics of Confinement. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Examination of current conditions of confinement; review of confinement related factors common to populations in penal institutions, military installations, mental hospitals, prisoner of war camps, and concentration camps; investigation into the broader implications of conditions of confinement for society; survey of practical strategies for developing and implementing standards for confined populations.

CRJ 240. Contemporary Issues in Policing. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

In-depth study of contemporary issues in policing in the U.S., including management, organization and issues confronting law enforcement at federal, state and local levels.

CRJ 250. Comparative Analysis of the Criminal Justice System. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Examination of alternative systems for criminal justice provides a basis for improved understanding of organizational and functional components within given sociopolitical environments. Through comparison of formal and operational levels, decision-making processes are made explicit with reference to historical, legal, social, and economic parameters in the administration of justice.

CRJ 251. White-Collar Crime. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Examines the underlying theories and the diverse nature of white-collar crime. Studies offenses associated with corporations, occupations, governments, enterprises and individuals. Examines the offenders and the organizational culture that facilitates criminal action. Topics include embezzlement, political corruption, employee theft, fraud, computer crime, and environmental crime. Study consequences for victims, offender characteristics and the theoretical explanations for the decisions by criminals to commit white-collar crimes.

CRJ 252. Violence and Victims. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Comprehensive survey of the literature on violence emphasizing high-fear crimes; the repetitively violent criminal; the emerging field of victimology; improved delivery of social services to victims; juvenile gangs; and the response of criminal justice agencies to urban violence.

CRJ 255. Crime, Criminology and Criminal Justice. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Study of major criminological theories, their ideological premises and basic assumptions, interrelationships, and the shifts in emphasis and focal points in the study of criminality. Analyzes post and current applications of theory to the intervention strategies of crime control.

CRJ 256. Historical Analysis of the American Criminal Justice System. 3 Units
Prerequisite(s): Classified graduate status; CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Evolution and historical foundations of American patterns of crime and violence, criminological theories, law enforcement structures and philosophies, the adult criminal justice system, and the juvenile system will be traced through three distinct historical periods: Colonial and Early American Roots, 1609-1814; Creating the American Criminal Justice System, 1815-1900; and Reforming the Criminal Justice System, 1900 to present.

CRJ 257. The Nature Of Terrorism. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Theoretical approaches to the study of terrorism and analysis of terrorist theory and strategies. Topics include operational definitions of terrorism, typologies of terrorism, threat analysis of terrorism in the U.S., and responses of the criminal justice system to acts of hostage-taking, bombing, political murder, and narco-terrorism.

CRJ 260. Management of Complex Justice Organizations. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Description, analysis, solution, and synthesis of contemporary management problems in criminal justice organizations; presentation and exemplary implementation of management concepts significant to criminal justice organizations; review of case studies for management problem recognition; and the study of operational systems.

CRJ 262. Administration of Juvenile Justice. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Theoretical and empirical study of the cause and control of delinquent behavior. Assessment of policies and practices of agencies involved in juvenile justice including the impact of recent federal and state legislation.

CRJ 266. Personnel Administration in Justice Organizations. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Provides an in depth understanding of the history, theories, laws, processes, issues and unique environment shaping contemporary personnel administration in a variety of criminal justice agencies.
CRJ 267. Criminal Justice Issues in Collective Bargaining and Arbitration.  3 Units
Prerequisite(s): Classified graduate status; CRJ 200, CRJ 201, CRJ 255 and CRJ 260.
Term Typically Offered: Fall, Spring

Designed to provide the criminal justice practitioner and administrator with an understanding of criminal justice labor-management relations and collective bargaining and difference resolution, along with conflict resolution practices as applied to inmate-custody and control situations.

CRJ 281. Special Topics in Criminal Justice.  3 Units
Prerequisite(s): CRJ 200 & CRJ 255, or equivalent.
Term Typically Offered: Fall, Spring

Introduces students to a variety of pressing issues as special topics that impact Criminal Justice and provides an opportunity to explore those special topics in greater depth. Students conduct research using multiple sources on a variety of topics, participate in seminar discussions, and present findings in presentations and reports.

Note: May be repeated for credit with permission of the Graduate Coordinator when the special topic is different.

CRJ 289. Criminal Justice Systems of the Future.  3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Societal structures, definitions of deviance and criminal behavior, social problems related to criminality, the nature of systems for handling criminal and sanctions in future societies.

CRJ 295. Internship.  3 Units
Prerequisite(s): Classified graduate status
Term Typically Offered: Fall, Spring

Supervised graduate student placement in selected criminal justice agencies with emphasis on research and evaluation project assignments.

Credit/No Credit

CRJ 296A. The Mentally Ill Individual in the Criminal Justice System.  3 Units
Prerequisite(s): Graduate student status
Term Typically Offered: Fall, Spring

A critical analysis of how mentally ill individuals interface with the criminal justice system, from first contacts with the police, to their entry into the jails, courts, prisons, and then reentry into the community via parole and probation. Current and historical topics about the mentally ill will be explored via an in-depth analysis of the current literature regarding the mentally ill in the criminal justice system, which will be reviewed and critiqued.

CRJ 296K. Emergency Management.  3 Units
Prerequisite(s): Graduate status; CRJ 200, CRJ 255, CRJ 256 and CRJ 260 or chair permission.
Term Typically Offered: Fall, Spring

Introduction to the authority, organization, responsibilities, challenges, and issues related to emergency management in California and the U.S., examines the implications of citizen involvement in preparation for and management of natural and man-made disasters. Graduate students will consider impact of terrorism on democratic governance issues and potential future trends and issues.

CRJ 299. Special Problems.  1 - 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who are competent to carry on individual work.

Credit/No Credit

CRJ 500. Culminating Experience.  3 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree. A thesis requires an original contribution to knowledge in a traditional research format. A project is a significant undertaking of a pursuit appropriate to the profession. It must evidence originality and independent thinking, appropriate form and organization and a rationale.

CRJ 501. Culminating Experience: Thesis/Project Development.  3 Units
Prerequisite(s): Advancement to candidacy.
Term Typically Offered: Fall, Spring

Provides students with an opportunity to develop a foundation for their culminating experience. Students will complete the initial components of their project or thesis including the Statement of the Problem, Literature Review, and Human Subjects application. Students are expected to read assigned materials and engage in weekly discussions about their progress and experience with other students, the instructor, and their advisor (as needed).

Credit/No Credit

CRJ 502. Culminating Experience: Thesis or Project.  3 Units
Prerequisite(s): Advanced to candidacy; satisfactory completion of CRJ 501.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree. A thesis requires an original contribution to knowledge in a traditional research format. A project is a significant undertaking of a pursuit appropriate to the profession. It must evidence originality and independent thinking, appropriate form and organization and a rationale.

Credit/No Credit

BS in Criminal Justice

Units required for Major: 60
Total units required for BS: 120

Program Description

Criminal Justice encompasses multidisciplinary examinations of crime, crime control, the justice process, and justice institutions. The discipline addresses definitions, causation, prevention, investigation, legal process, treatment, rehabilitation, and research relating to crime and justice as well as the institutions of the justice system and their administration.

The Criminal Justice program at Sacramento State is one of the most highly sought after programs in Northern California. Due to the large number of applications, the program is now officially impacted. Students wishing to become Criminal Justice majors must complete a series of required lower division courses and then must apply for admission to the program. It is highly recommended that interested students speak with a Criminal Justice advisor as soon as possible.
**Pre-Requisite Requirements**

To become a Criminal Justice major, the student must first have successfully completed the following courses or their equivalent with a grade of "C" or better:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CRJ 1</td>
<td>Introduction to Criminal Justice and Society</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 2</td>
<td>Law of Crimes</td>
<td>3</td>
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<tr>
<td>CRJ 4</td>
<td>General Investigative Techniques</td>
<td>3</td>
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<tr>
<td>CRJ 5</td>
<td>The Community and the Justice System</td>
<td>3</td>
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Students who wish to become a Criminal Justice minor must contact the Division of Criminal Justice.

Most upper division Criminal Justice courses are restricted to Criminal Justice majors or minors or permission of instructor. Students interested in Criminal Justice majors or minors are encouraged to contact the Criminal Justice Student Advising Center.

Criminal Justice majors are assigned a faculty advisor at the time they are approved for admission into the major. Majors must meet with their assigned faculty advisor during their first semester. Advising appointments are scheduled in the Criminal Justice Office Alpine Hall 137.

**Minimum Grade Requirement**

Students majoring in Criminal Justice must achieve a "C" grade or better in each lower division and a "C-" or better in each upper division course applied to the major and a GPA of at least 2.0 ("C") for all upper division required courses applied to the major.

**Program Requirements**

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<thead>
<tr>
<th>Code</th>
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<tr>
<td><strong>Required Lower Division Courses (12 Units)</strong></td>
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<tr>
<td>CRJ 1</td>
<td>Introduction to Criminal Justice and Society</td>
<td>3</td>
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<td>CRJ 2</td>
<td>Law of Crimes</td>
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<td>CRJ 4</td>
<td>General Investigative Techniques</td>
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<tr>
<td>CRJ 5</td>
<td>The Community and the Justice System</td>
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<tr>
<td><strong>Required Upper Division Core Courses (24 Units)</strong></td>
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<tr>
<td>CRJ 101</td>
<td>Introduction to Criminal Justice Research Methods</td>
<td>2</td>
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<tr>
<td>CRJ 102</td>
<td>Crime And Punishment</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 121</td>
<td>The Structure and Function of the American Courts</td>
<td>3</td>
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<tr>
<td>CRJ 123</td>
<td>Law of Arrest, Search and Seizure</td>
<td>2</td>
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<tr>
<td>CRJ 130</td>
<td>Fundamentals of Corrections</td>
<td>2</td>
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<tr>
<td>CRJ 141</td>
<td>Police and Society</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 160</td>
<td>Justice and Public Safety Administration</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 190</td>
<td>Contemporary Issues in Criminal Justice</td>
<td>1,2</td>
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<tr>
<td><strong>Upper Division Electives (24 Units)</strong></td>
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<td>Select 24 units from the following:</td>
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**Criminal Justice Administration**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CRJ 142</td>
<td>Police Administration</td>
<td>2</td>
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<tr>
<td>CRJ 144</td>
<td>Contemporary Issues in Police Administration</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 163</td>
<td>Leadership in Criminal Justice and Public Safety</td>
<td>2</td>
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<tr>
<td>CRJ 165</td>
<td>Planning for Justice and Public Safety</td>
<td>2</td>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CRJ 168</td>
<td>Justice and Public Safety Information Systems</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 172</td>
<td>Comparative Criminal Justice Systems</td>
<td>2</td>
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**Investigation**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CRJ 152</td>
<td>Interviewing and Detection of Deception</td>
<td>2</td>
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<tr>
<td>CRJ 153</td>
<td>Advanced Criminal Investigation</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 154</td>
<td>Introduction to Physical Evidence</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 156</td>
<td>Introduction to Crime and Intelligence Analysis</td>
<td>2</td>
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**Corrections**

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<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 131</td>
<td>Correctional Institutions</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 134</td>
<td>Community Based Corrections</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 136</td>
<td>Corrections Administration</td>
<td>2</td>
</tr>
</tbody>
</table>

**Offenses and Offenders**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>CRJ 105</td>
<td>Delinquency, Prevention and Control</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 106</td>
<td>Analysis of Career Criminals</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 108</td>
<td>Domestic Crime and Violence</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 112</td>
<td>Gangs and Threat Groups in America</td>
<td></td>
</tr>
<tr>
<td>CRJ 114</td>
<td>Sexual Offenses and Offenders</td>
<td></td>
</tr>
<tr>
<td>CRJ 115</td>
<td>Violence and Terrorism</td>
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</tr>
<tr>
<td>CRJ 116</td>
<td>Restorative Justice and Conflict Resolution</td>
<td></td>
</tr>
<tr>
<td>CRJ 117</td>
<td>American Criminal Justice and Minority Groups</td>
<td></td>
</tr>
<tr>
<td>CRJ 118</td>
<td>Drug Abuse and Criminal Behavior</td>
<td></td>
</tr>
<tr>
<td>CRJ 151</td>
<td>White Collar Crime</td>
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**Law**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CRJ 125</td>
<td>Law of Responsibility</td>
<td>2</td>
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<tr>
<td>CRJ 126</td>
<td>Law of Evidence</td>
<td>2</td>
</tr>
<tr>
<td>CRJ 127</td>
<td>Juvenile Law</td>
<td>2</td>
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<tr>
<td>CRJ 128</td>
<td>Administrative Law for Public Safety Personnel</td>
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**Additional Courses**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CRJ 109</td>
<td>Media, Crime, and Criminal Justice</td>
<td>2</td>
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<tr>
<td>CRJ 111</td>
<td>Women and the Criminal Justice System</td>
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<tr>
<td>CRJ 172</td>
<td>Comparative Criminal Justice Systems</td>
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<tr>
<td>CRJ 174</td>
<td>Criminal Justice Systems of the Future</td>
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<tr>
<td>CRJ 176</td>
<td>Security Systems</td>
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<tr>
<td>CRJ 191</td>
<td>Topics in Criminal Justice Administration</td>
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<tr>
<td>CRJ 195</td>
<td>Internship</td>
<td>2,4</td>
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<tr>
<td>CRJ 196</td>
<td>Experimental Offerings in Criminal Justice</td>
<td>2</td>
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<tr>
<td>CRJ 198</td>
<td>Co-Curricular Activities</td>
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<tr>
<td>CRJ 199</td>
<td>Special Problems</td>
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**Supporting Courses**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ACCY 161</td>
<td>Government and Nonprofit Accounting</td>
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<tr>
<td>ANTH 101</td>
<td>Cultural Diversity</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 144</td>
<td>Contemporary American Culture in Anthropological Perspective</td>
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<tr>
<td>ANTH 163</td>
<td>Urban Anthropology</td>
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<tr>
<td>ANTH 166</td>
<td>Rise of Religious Cults</td>
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<tr>
<td>ANTH 183</td>
<td>Women Cross-Culturally</td>
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<tr>
<td>ANTH 186</td>
<td>Culture and Poverty</td>
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<tr>
<td>COMS 116</td>
<td>Intercultural Communication</td>
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<tr>
<td>CSC 114</td>
<td>Digital Evidence and Computer Crime</td>
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<tr>
<td>CSC 115</td>
<td>Internet Security</td>
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<td>CSC 116</td>
<td>Cyber Forensics</td>
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<tr>
<td>ENGL 120P</td>
<td>Professional Writing</td>
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<td>Units</td>
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<tr>
<td>ENGL 120S</td>
<td>Writing in the Social Sciences</td>
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<tr>
<td>ETHN 100</td>
<td>Ethnic America</td>
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<tr>
<td>ETHN 110</td>
<td>The Asian American Experience</td>
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<tr>
<td>ETHN 117</td>
<td>Black Political Thought</td>
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<tr>
<td>ETHN 130</td>
<td>Chicano/Mexican-American Experience</td>
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</tr>
<tr>
<td>ETHN 131</td>
<td>La Raza Studies</td>
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<tr>
<td>ETHN 136</td>
<td>US Mexican Border Relations</td>
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<tr>
<td>ETHN 140</td>
<td>Native American Experience</td>
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<tr>
<td>ETHN 155</td>
<td>Genocide and Holocaust Studies</td>
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<tr>
<td>ETHN 170</td>
<td>Pan African Studies</td>
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<tr>
<td>ETHN 173</td>
<td>The Black Family in the United States</td>
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<td>GEOG 109</td>
<td>Geographic Information Systems</td>
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<td>Constitutional Law</td>
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<td>POLS 120B</td>
<td>Constitutional Rights and Liberties</td>
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<td>POLS 122</td>
<td>The Law and Bureaucracy</td>
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<td>POLS 155</td>
<td>United States Congress</td>
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<td>Politics of the Underrepresented</td>
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<td>POLS 170</td>
<td>Public Policy Development</td>
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<td>POLS 180</td>
<td>California State and Local Government</td>
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<tr>
<td>HIST 162</td>
<td>Social History of the United States</td>
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<tr>
<td>HIST 163</td>
<td>The City in US History</td>
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<tr>
<td>HIST 177</td>
<td>The African-American Experience, 1603-Present</td>
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<tr>
<td>PHIL 101</td>
<td>Ethics and Social Issues</td>
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<tr>
<td>PHIL 102</td>
<td>Professional and Public Service Ethics</td>
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</tr>
<tr>
<td>PHIL 122</td>
<td>Political Philosophy</td>
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<tr>
<td>PHIL 155</td>
<td>Philosophy Of Law</td>
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<tr>
<td>PHIL 160</td>
<td>Deductive Logic II</td>
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<tr>
<td>PSYC 100</td>
<td>Cross-Cultural Psychology</td>
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<td>PSYC 103</td>
<td>Perception</td>
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<td>PSYC 108</td>
<td>Organizational Psychology</td>
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<td>PSYC 110</td>
<td>Cognitive Psychology</td>
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</tr>
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<td>PSYC 130</td>
<td>Personality Theories</td>
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<td>PSYC 135</td>
<td>Psychology of Multicultural Groups</td>
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<tr>
<td>PSYC 137</td>
<td>Stress Management</td>
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<tr>
<td>PSYC 145</td>
<td>Social Psychology</td>
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<td>PSYC 149</td>
<td>Psychology of Adolescence</td>
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<tr>
<td>PSYC 151</td>
<td>Psychological Aspects of Death and Dying</td>
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<td>PSYC 168</td>
<td>Abnormal Psychology</td>
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<tr>
<td>RPTA 152</td>
<td>Law Enforcement for Forest and Park Rangers</td>
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<tr>
<td>SOC 101</td>
<td>Introduction to Statistics for Sociologists</td>
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</tr>
<tr>
<td>SOC 102</td>
<td>Research Methods in Sociology</td>
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<tr>
<td>SOC 120</td>
<td>Ethnic and Race Relations</td>
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</tr>
<tr>
<td>SOC 130</td>
<td>Political Sociology</td>
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<td>SOC 136</td>
<td>Social Movements</td>
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</tr>
<tr>
<td>SOC 155</td>
<td>Criminology</td>
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<tr>
<td>SOC 156</td>
<td>Delinquency</td>
<td>1</td>
</tr>
<tr>
<td>SOC 157</td>
<td>Issues in Courts and Prisons</td>
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</tr>
<tr>
<td>SOC 158</td>
<td>Sociology of Deviance</td>
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<tr>
<td>SOC 162</td>
<td>Middle Eastern Societies and Culture</td>
<td>1</td>
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<tr>
<td>SWRK 102</td>
<td>Crosscultural Theory and Practice: Issues of Race,</td>
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<tr>
<td></td>
<td>Gender and Class</td>
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<tr>
<td>SWRK 118</td>
<td>Chemical Dependency and Social Work Practice</td>
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<td>SWRK 126</td>
<td>Theories of Criminal Behavior</td>
<td>1</td>
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<tr>
<td>SWRK 134</td>
<td>Crimes Without Victims</td>
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</tr>
<tr>
<td>SWRK 136</td>
<td>Poverty and Homelessness in America</td>
<td>1</td>
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<tr>
<td>SWRK 137</td>
<td>The Child and the Law</td>
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</tr>
<tr>
<td>SWRK 138</td>
<td>Violence In The Family</td>
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<tr>
<td>WGS 139</td>
<td>Violence Against Women</td>
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</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>60</td>
</tr>
</tbody>
</table>

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 Prerequisite: Restricted to declared majors and minors or instructor permission.
3 Students will collaborate with their Criminal Justice advisor to develop a plan of electives that reflects the student's academic and professional interests. Electives must be drawn from at least two of the listed “Areas of Interest,” of which one must be from the “Supporting Courses” area. The Writing Intensive graduation requirement may be completed in the major. An approved minor may be substituted for up to 12 units of the major elective courses and fulfills the requirement for selection of a course from the “Supporting Courses”.
4 No more than 6 units of Credit/No Credit courses will be allowed toward completion of the degree.

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 - Oral Communication</td>
<td>A2 - Written Communication</td>
<td>A3 - Critical Thinking</td>
</tr>
<tr>
<td>B1 - Physical Science</td>
<td>B2 - Life Forms</td>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
</tr>
<tr>
<td>B4 - Math Concepts</td>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td></td>
</tr>
<tr>
<td>C1 - Arts</td>
<td>C2 - Humanities</td>
<td>C1/C2 - Area Course C</td>
</tr>
<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>Area D Course</td>
<td>Area D Course</td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<td></td>
</tr>
<tr>
<td>Area E Course</td>
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<td></td>
<td>Total Units</td>
<td>46</td>
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Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CRJ 1</td>
<td>Introduction to Criminal Justice and Society</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 2</td>
<td>Law of Crimes</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 4</td>
<td>General Investigative Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 5</td>
<td>The Community and the Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 160</td>
<td>Justice and Public Safety Administration</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 195</td>
<td>Internship</td>
<td>1-6</td>
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<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

1. CRJ 195 internship can count for 1-6 units of credit, but for the Law Enforcement Certificate it can only be taken once for 3 units.

Minor in Criminal Justice

Units required for Minor: 21

Program Description

Students who wish to become a Criminal Justice minor must contact the Division of Criminal Justice.

Note: Admission to the Minor in Criminal Justice is suspended due to the impaction status of the BS in Criminal Justice.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 1</td>
<td>Introduction to Criminal Justice and Society</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 2</td>
<td>Law of Crimes</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 4</td>
<td>General Investigative Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 121</td>
<td>The Structure and Function of the American Courts</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 123</td>
<td>Law of Arrest, Search and Seizure</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 130</td>
<td>Fundamentals of Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 141</td>
<td>Police and Society</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

Certificate in Law Enforcement

Units required for Certificate: 18

Program Description

Students participating in the Law Enforcement Candidate Scholars’ (LECS) program who wish to obtain a Certificate of Academic Achievement in Law Enforcement must complete the following courses with a minimum grade of "C" or higher. Courses for the Certificate program are applicable toward course requirements for the Criminal Justice major.

All courses and petitions for substitutions will need to be approved by the Law Enforcement Candidate Scholars’ Program and Criminal Justice Division and will reflect the criteria and learning outcomes of the Law Enforcement Certificate.

Additional eligibility criteria and certificate information can be obtained from the Law Enforcement Candidate Scholars’ (LECS) Program or Criminal Justice Division Advising Center. Visit the LECS website (http://www.csus.edu/hhs/lecs/) for more information.

Minor in Forensics Investigations

Units required for Minor: 21

Program Description

This minor is only available to students who are either a Chemistry or Biological Science major.

Minimum Grade Requirement

The following courses must be completed with a minimum grade of "C" or higher.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 1</td>
<td>Introduction to Criminal Justice and Society</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 2</td>
<td>Law of Crimes</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 4</td>
<td>General Investigative Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>
CRJ 121  The Structure and Function of the American Courts  3
CRJ 141  Police and Society  3
CRJ 153  Advanced Criminal Investigation  3
CRJ 154  Introduction to Physical Evidence  3
Total Units  21

1 Restricted to declared majors and minors or instructor permission.

MS in Criminal Justice
Total units required for MS: 30

Program Description
The Master of Science program in Criminal Justice is designed to provide broad knowledge and understanding of the field of criminal justice, law enforcement, legal processes, and rehabilitation of offenders. It also provides an extensive academic foundation for a growing variety of professional opportunities and facilitates professional development in preparation for positions of increasing responsibility. Curriculum objectives are based on the philosophy that the function of the professional criminal justice practitioner and educator is to aid the orderly development of society, to contribute significantly to the improvement of the quality of services, and to advance the criminal justice system. Students who anticipate pursuing graduate studies should prepare themselves for work on this level by selecting undergraduate courses which provide competence in the following areas: statistical analysis, behavioral science methodology, independent library research, and the writing of research papers.

The University's location in the state capital provides direct access to many local, federal, and state agencies through internship and fieldwork opportunities. All graduate students should consult the Criminal Justice Graduate Coordinator when planning their program of courses for each upcoming semester.

All work toward the degree must be completed within a seven-year period. The general University requirements for graduate degrees are explained in the "Graduate Studies (p. 86)" section of this Catalog.

Admission Requirements
Admission as a classified graduate student in Criminal Justice requires:

- a baccalaureate degree from an institution accredited by a regional accrediting association;
- a minimum 3.0 GPA in the last 60 units attempted and a 3.0 GPA in the major field;
- a score of 4 or more in the Analytical Writing Section of the Graduate Record Examination (GRE) General Test;
- a letter outlining in some detail the applicant's interests, goals, and expectations in pursuing the MS in Criminal Justice; and
- three letters of recommendation from individuals who can evaluate the applicant's potential for graduate study.

In addition, applicants are expected to have an undergraduate major in Criminal Justice or its equivalent. Whatever the applicant's undergraduate major, however, it is essential that each student have adequate preparation for graduate study. For this reason, some applicants (regardless of their undergraduate program) may be asked to remove deficiencies in their education by taking courses from the undergraduate curriculum before being admitted as a classified graduate student. In such cases, conditionally classified graduate status may be granted subject to completion of these courses with grade "B" or better. The number of units required to remove deficiencies will total no more than 15 and these must be taken in addition to the 30 units required for the MS. Any deficiencies will be noted on a written response to the admission application.

Admission Procedures
Applications are accepted as long as space for new students is available. If applications for graduate admissions exceed the capacity of the Department, the Department will limit admissions. Applicants will be rank ordered for admission based on an evaluation of the academic record, GRE scores, professional and life experience, references, proposed academic plan and potential for diversifying, and enriching the Criminal Justice graduate program. For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/.

All prospective graduate students, including Sacramento State graduates, must provide the following:

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, other than Sacramento State; and
- Graduate Record Exam (GRE) scores.
- a letter outlining in some detail the applicant's interests, goals, and expectations in pursuing the MS in Criminal Justice; and
- three letters of recommendation from individuals who can evaluate the applicant's potential for graduate study.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be emailed by the University to the applicant.

Minimum Units and Grade Requirement for the Degree
Units required for the MS: 30
Minimum Cumulative GPA: 3.0

Advancement to Candidacy
Each student must file an application for Advancement to Candidacy for the master's degree indicating the proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admissions requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Students may not enroll in CRJ 502 before they are advanced to candidacy.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with the Criminal Justice Graduate Coordinator. The completed form should then be returned to the Office of Graduate Studies for approval.
Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CRJ 201</td>
<td>Advanced Research Design and Data in Criminal Justice</td>
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<tr>
<td>CRJ 200</td>
<td>Research Methods in Criminal Justice</td>
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</tr>
<tr>
<td>CRJ 255</td>
<td>Crime, Criminology and Criminal Justice</td>
<td>3</td>
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<tr>
<td>CRJ 260</td>
<td>Management of Complex Justice Organizations</td>
<td>3</td>
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<td><strong>Select two of the following:</strong></td>
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<td>CRJ 210</td>
<td>Critical Examination of Law and Justice</td>
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<tr>
<td>CRJ 231</td>
<td>Graduate Seminar in Corrections</td>
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<tr>
<td>CRJ 240</td>
<td>Contemporary Issues in Policing</td>
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<tr>
<td>CRJ 262</td>
<td>Administration of Juvenile Justice</td>
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<thead>
<tr>
<th>Electives (6-9 Units)</th>
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<td>Select six units for the thesis/project option and nine units for the comprehensive exam option:</td>
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<td>CRJ 296 series course</td>
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| Culminating Experience (3-6 Units) 1                                              |
|-------------------------------------|---------------------------------|
| CRJ 500 | Culminating Experience          | 3 - 6   |
| or CRJ 501 & CRJ 502 | Culminating Experience: Thesis/Project Development | 6       |

Total Units 30-33

1 Students requiring more than one semester to complete their culminating experience must re-enroll in CRJ 502.

Program Description

Kinesiology is an academic area of study concerned with the art and science of human movement. The Department offers a Bachelor of Science degree with six concentrations of study, a Master of Science with two concentrations of study (Exercise Science and Movement Studies), and a Personal Trainer/Strength and Conditioning Certificate. Two Minor programs (Coaching and Supplementary Authorization in Physical Education) are also available.

Degree Programs

- BS in Exercise Science (Clinical Exercise & Rehabilitation Specialist) (p. 711)
- BS in Exercise Science (Health Fitness/Strength Conditioning) (p. 713)
- BS in Kinesiology (Athletic Administration) (p. 714)
- BS in Kinesiology (Athletic Care) (p. 716)
- BS in Kinesiology (Athletic Coaching Education) (p. 717)
- BS in Kinesiology (Physical Activity and Wellness) (p. 719)
- BS in Kinesiology (Physical Education Teacher Education) (p. 720)
- Certificate in Personal Trainer/Strength and Conditioning (p. 722)
- Credential in Adapted Physical Education Specialist (p. 722)
- Minor in Coaching (p. 722)
- Minor in Supplementary Authorization in Physical Education (p. 723)
- MS in Kinesiology (Exercise Science) (p. 723)
- Single Subject Credential in Physical Education (K-12) (p. 725)
- Subject Matter Program Athletic Training (p. 725)

The Health Fitness/Strength Conditioning option is a National Strength Conditioning Association (NSCA) recognized program that prepares students for graduate work in the areas of exercise and sport science, as well as for careers as a strength and conditioning specialist in corporate and community wellness, college/professional-based athletics, commercial fitness & health club settings. The Clinical Exercise & Rehabilitation option provides students with in-depth science-based coursework which meets the prerequisite requirements for most physical therapy, occupational therapy, and other health related professional programs. Career options include cardiac rehabilitation, clinical exercise specialist, and other clinical/technical specialties in allied health fields.

Accreditation

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Kinesiology (Physical Education) is also individually accredited by California Commission on Teacher Credentialing (CCTC).

Notice to Students RE: Professional Licensure and Certification

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated
with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features

- The Kinesiology facilities include state-of-the-art high tech laboratories for motor learning, biomechanics, exercise physiology, sport performance, and physical therapy/therapeutic exercise and rehabilitation.
- Several activity spaces are available, including dance, weight training, and gymnastics rooms. Outside facilities include a lap pool, racquetball and tennis courts, jogging trails, sports fields, putting green, driving range, and aquatic center.
- Kinesiology majors at Sacramento State have opportunities for unique experiences at the undergraduate level. In the Physical Education Concentration, students observe and teach children in both on and off campus field sites.
- Sacramento State has an accredited CCTC Accredited Physical Education Teacher Education program.
- Exercise Science students gain useful experience through their internships at various on and off campus locations.
- Students interested in Physical Therapy build a valuable background of experience in community hospitals and rehabilitation centers.
- At the graduate level, students engage in a variety of research projects, both on and off campus in the areas of Exercise Science and Movement Studies.

Note: Students interested in majoring or minorin in Kinesiology are encouraged to go to the Department of Kinesiology Office for an assignment to a faculty advisor.

Career Possibilities

Biomechanist · Cardiac Catheterization Technician · Cardiac Electrophysiologist · Cardiac Rehabilitation Specialist · Cardiac Technician · Cardiovascular Sonography Technician · Clinical Exercise Physiologist · Coach · Community Center Leader · Corporate Wellness/ Fitness · Corrective Therapist · Doctor of Osteopathy School · Echocardiogram Technician · Endurance Sport Coach · Exercise Physiologist · Exercise Scientist · Health Fitness Specialist · Intramural Recreational Sports Specialist · Medical School · Nursing School · Occupational Therapist School · Personnel Fitness Trainer · Pharmacy Sale Representative · Physician Assistant · Physical Therapy Aide · Physical Therapist · Physical Education Teacher · Recreation Sports Coordinator · Sportscaster · Strength Conditioning Specialist · University Student Fitness/Wellness Coordinator

Contact Information

Michael T. Wright, Chair
Andrew Haff, Administrative Coordinator
Solano Hall 3002
(916) 278-6441

Department of Kinesiology Website (https://www.csus.edu/college/health-human-services/kinesiology/)

Faculty

BECKER, ANDREA J.
BEGUE, GWENĂELLE
BROWN, MATTHEW J.
CASAZZA, GRETCHEN
DEZFOULI, SHABNAM R.
IMAMURA, RODNEY T.
JAMIESON, KATHERINE M.
KUEHL-KITCHEN, JULIE M.
LARSEN, LESLIE K.
MORRIS, AMANDA
PARK, JENNIFER K.
PARK, CHAN WOONG
PARKER, DARYL L.
QUINTANA, ROBERTO
SMITH, MAUREEN M.
TABOGA, PAOLO
TACLA, CRAIG P.
THEODORIDES, HARRY N.
VALDEZ, LINDY A.
WRIGHT, MICHAEL T.

KINS 4. Beginning Swimming. 1 Unit

General Education Area/Graduation Requirement: Understanding Personal Development (E)

Term Typically Offered: Fall, Spring

Development of physical and mental adjustment to the water. Basic instruction in front crawl, back crawl, elementary backstroke, breast and side strokes and survival is stressed.

Note: May be repeated for credit.

KINS 5. Intermediate Swimming. 1 Unit

General Education Area/Graduation Requirement: Understanding Personal Development (E)

Term Typically Offered: Fall, Spring

Development of physical skills involving strokes, turns, safety and survival techniques.

Note: May be repeated for credit.
Prerequisite(s): 50 yards swimming ability.
Term Typically Offered: Fall, Spring

Instruction in the fundamentals of sailing including safety and a
discussion of terminology and technology of sailing. Additional charge
for off-campus services.
Note: May be repeated for credit.

KINS 10. Intermediate Sailing.
Term Typically Offered: Fall, Spring

Continuation of KINS 25, using our fleet of C-15s, Laser and Hobie Turbo
14s. Covers rigging, boating safety, sailing, theory and racing tactics.
Note: May be repeated for credit.

KINS 11. Basic Windsurfing.
Term Typically Offered: Fall, Spring

Introduces the student to the basic fundamentals of windsurfing. Covers
rigging, terminology, balance, stance, sail adjustment, safety, rescue skills,
and tricks.
Note: May be repeated for credit.

Prerequisite(s): 50 yards swimming ability.
Term Typically Offered: Fall, Spring

Basic water skiing, boat and boating safety and in the fundamental skills
in water skiing. Additional charge for off-campus services.
Note: May be repeated for credit.

Term Typically Offered: Fall, Spring

Teaches the novice rower oar control, basic commands, and correct style.
Students will begin rowing on a modern eight-oared racing shell and be
introduced to the one person rowing single.
Note: May be repeated for credit.

KINS 15. Introduction to Fly Fishing.
Term Typically Offered: Fall, Spring

KINS 15 is a course designed for Sacramento State students of all
experience levels to develop proficiency in the sport of fly fishing while
promoting an appreciation of the sport as a socio-cultural and lifetime
recreational pursuit. Instruction/participation will include, but is not
limited to the following topics: conditioning, conservation techniques,
equipment use/care/selection, fly casting, aquatic entomology, stream
hydrology, interpretation of fly fishing opportunities, fly fishing tactics,
basic knots, and field trips to local streams.
Field trip(s) may be required.

KINS 21. First Year Seminar: Becoming an Educated Person.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education,
and the functions and resources of the University. Designed to help
students develop and exercise fundamental academic success strategies
and to improve their basic learning skills. Provides students with the
opportunity to interact with fellow classmates and the seminar leader to
build a community of academic and personal support.

KINS 22. Creative Aerobic Fitness I.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring

Provides student with a wide range of flexibility, strength, muscular
endurance and creative cardiovascular endurance (aerobic) exercises
that promote physical fitness, positive changes in body composition and
stress reduction when performed regularly.
Note: May be repeated for credit.

Term Typically Offered: Fall, Spring

Using the unique buoyancy and resistance properties of water, the course
includes aquatic exercises for flexibility, strength, and cardiovascular
endurance to promote general fitness, body conditioning, and stress
reduction. As the course will take place in shallow water, swimming
proficiency is not required.
Note: May be repeated for credit.

KINS 26. Exercise For Fitness.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring

Designed to encourage self-improvement through posture evaluation,
biomechanic analysis of exercises performed and through participation
in varied exercise forms. Students will develop a personalized repertoire
of strength, suppleness and stamina exercises calculated to improve
possible deficiencies in posture or movement to optimize enjoyment of
living.
Note: May be repeated for credit.

General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring

Jogging will expose the student to the fundamentals of jogging/running,
its potential physiological and sociological benefits as a lifetime activity,
fitness testing and individualized conditioning programs.
Note: May be repeated for credit.

KINS 30. Bicycling.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring

Cycling as a lifetime sport; physiological benefits derived from bicycle
riding; individual functional evaluation and conditioning, cycle touring.
Lecture one hour; activity two hours.
Note: May be repeated for credit.

KINS 33. Intermediate Weight Training.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring

Weight training as a lifetime fitness activity; emphasis on going beyond
the beginning level through development of an individualized program
designed to meet the needs of each individual.
Note: May be repeated for credit.
KINS 36.  Beginning Olympic Weight Lifting.  1 Unit
Prerequisite(s): KINS 33 or equivalent.
Term Typically Offered: Fall, Spring
Introduces the lifter to the sport of weight lifting which consists of the
two lifts (two hands snatch and the two hands clean and jerk) used in
Olympic competition. It includes the complete breakdown of the two lifts,
the assistive lifts necessary to learn the parts of the two lifts, and the
proper training sequence. The students will also be introduced to training
cycles, proper diet, and the use of assistive equipment.
Note: May be repeated for credit.

KINS 40.  Tai Chi.  1 Unit
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring
Examines the historical, philosophical, psychological and physiological
aspects of Tai Chi. Students will be provided the opportunity to
experience a wide range of movement patterns that focus on the
integration of mind and body. The form and structure of technique as well
as breathing exercises will be included.
Note: May be repeated for credit.

KINS 43.  Beginning Tae Kwon Do.  1 Unit
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring
Primary emphasis on throwing, blocking, punching and kicking. The
philosophy of Truism and Confucianism is explored.
Note: May be repeated for credit.

KINS 46.  Beginning Judo.  1 Unit
Term Typically Offered: Fall, Spring
Instruction in beginning judo tactics including throws and falls,
conditioning, and protective devices for self-defense.
Note: May be repeated for credit.

KINS 50.  Uechi-Ryu Karate.  1 Unit
Term Typically Offered: Fall, Spring
Examines the historical, philosophical, and physical aspects of Uechi-Ryu
Karate. Students will be asked to learn the basic techniques and skills
used in this Okinawan system as well as to develop and improve in body
conditioning, and protective devices for self-defense.

KINS 56.  Beginning Self-Defense for Women.  1 Unit
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring
Prepares women to deal psychologically, sociologically and physically
with rape and violent assault. The physical tactics taught are based on
the use of hands and feet as weapons. They are simple yet an effective
use of one’s strength and mental attitude.
Note: May be repeated for credit.

KINS 59.  Self Defense and Conditioning.  1 Unit
Term Typically Offered: Fall, Spring
Multifaceted conditioning course that utilizes self defense techniques to
develop self discipline, confidence and respect for physical capabilities
and limitations of others.
Note: May be repeated for credit.

KINS 63.  Beginning Ballroom Dance.  1 Unit
Term Typically Offered: Fall, Spring
Development of proficiency in ballroom dance, including history,
vocabulary, ballroom dance etiquette and basic steps for foxtrot, waltz,
hustle, cha cha, tango, rhumba, salsa, and merengue.
Note: May be taken for credit more than once for credit.

KINS 72.  Beginning Basketball.  1 Unit
Term Typically Offered: Fall, Spring
Development of fundamental skills and tactics of the game, knowledge of
basic strategy and rules. Emphasis given to individual and team concepts
as they relate to performance and competition.
Note: May be repeated for credit.

KINS 73.  Intermediate Basketball.  1 Unit
Term Typically Offered: Fall, Spring
Advancement of basketball skills and strategy. Emphasis is given to
individual and team concepts as they relate to performance competition
and officiating basketball.
Note: May be repeated for credit.

KINS 75.  Beginning Volleyball.  1 Unit
Term Typically Offered: Fall, Spring
Development of fundamental skills, basic offensive and defensive systems of team
play, basic strategies and rules. Emphasis on team work and developing
supportive attitudes and behavior which encourages continued
involvement in volleyball as a physical activity.
Note: May be repeated for credit.

KINS 79.  Beginning Soccer.  1 Unit
Term Typically Offered: Fall, Spring
Development of basic skills of ball handling, passing, dribbling, trapping,
tackling, individual and team tactics and strategies; rules interpretation
and officiating; promotion of bio-psychosocial well being.
Note: May be repeated for credit.

KINS 83.  Beginning Golf.  1 Unit
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring
Development of sufficient basic proficiency in golf to recognize and
enjoy it as a lifetime activity; including U.S.G.A. rules, etiquette and the
fundamental mechanics involved in the use of irons and woods.
Note: May be repeated for credit.
KINS 86. Beginning Tennis.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring
Development toward proficiency in tennis, including basic court skills, knowledge, and elementary strategies. Development of enjoyable and appropriate cooperative and competitive modes of behavior, including etiquette and self-awareness. Attention is given to healthful approaches to vigorous lifetime physical activity.
Note: May be repeated for credit.

KINS 87. Intermediate Tennis.
Term Typically Offered: Fall, Spring
Development and refinement of skills at the intermediate level in all strokes. Development and refinement of playing techniques and strategies. Learning how to enjoy competitive situations and to relate well to others in competition. Adjustment to stressful competitive conditions and improvement of personal responses under stress.
Note: May be repeated for credit.

KINS 88. Beginning Badminton.
Term Typically Offered: Fall, Spring
Development of fundamentals in badminton including beginning skills, offensive and defensive tactics and strategy; singles, doubles and mixed doubles tournament play.
Note: May be repeated for credit.

KINS 89. Intermediate Badminton.
Term Typically Offered: Fall, Spring
Development of movement skills, strokes, tactics in singles and doubles at a more advanced level. Emphasis on "cut" or deceptive strokes, rotation or diagonal system of doubles play, increased ability to move on the court, application of laws to move difficult playing situations. Singles, doubles and mixed doubles play in tournaments.
Note: May be repeated for credit.

KINS 90. Beginning Racquetball.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring
Fundamental theory and practice of the game of racquetball including service, receiving the service, back wall play, basic shots, variations, court positioning and general tactics; history rules, and safety precautions.

KINS 91. Intermediate Racquetball.
Term Typically Offered: Fall, Spring
Development of proficiency at the intermediate level. Includes service and return, back wall play, offensive and defensive shots with emphasis on techniques, strategy and tactics of competition.
Note: May be repeated for credit.

KINS 92. Beginning Tennis.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring
Development toward proficiency in tennis, including basic court skills, knowledge, and elementary strategies. Development of enjoyable and appropriate cooperative and competitive modes of behavior, including etiquette and self-awareness. Attention is given to healthful approaches to vigorous lifetime physical activity.
Note: May be repeated for credit.

KINS 93. Intermediate Racquetball.
Term Typically Offered: Fall, Spring
Development of proficiency at the intermediate level. Includes service and return, back wall play, offensive and defensive shots with emphasis on techniques, strategy and tactics of competition.
Note: May be repeated for credit.

KINS 94. Exercise for Healthy Living.
Corequisite(s): One unit skill or fitness class; may be taken concurrently.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring
Exposes students to a broad range of information related to the understanding and development of personal fitness and health, including psycho-social well-being. Examines the elements of exercise, nutrition, and stress management as they relate to healthful living. Students will explore a variety of personal choices and the options for developing and maintaining lifetime wellness.

Term Typically Offered: Fall, Spring
KINS 101 is an introduction to the study of human movement, including its role in daily life and its place in higher education. Career opportunities related to sport, movement, exercise, and fitness will be examined. Students in this course will explore various educational pathways, requirements, and professional opportunities in the sub-disciplines of Kinesiology.

KINS 106C. Advanced Weight Training.
Term Typically Offered: Fall, Spring
Advanced instruction in weight lifting including Olympic weight lifting, power lifting, body building, lifting for athletic competition and lifting for physical fitness.

KINS 110. Women and Sport.
Term Typically Offered: Fall, Spring
Role of women in sport; an inquiry into traditional and contemporary attitudes and practices regarding the woman's role in the sporting world.

KINS 118A. Martial Arts: Karate.
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring
Explodes the ancient tradition of the Asian martial arts in conjunction with actual participation in a selected martial arts course. Asks the student to critically examine the cultural contributions of specific Asian communities such as Japan, China, and Korea, to the Martial Arts as practiced in the U.S.

KINS 118B. Martial Arts: Tae Kwon Do.
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring

KINS 118C. Martial Arts: Tai Chi.
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring
KINS 120. Strength and Conditioning. 3 Units
Prerequisite(s): Restricted to Kinesiology, Pre-Exercise Science, or instructor approval.
Term Typically Offered: Fall, Spring

The course is designed to introduce students, persons interested in the personal training field, strength & conditioning and/or prospective coaches at the high school, college, or professional level, public, private settings to what are commonly referred to as training units. These training units are part of the total training program an individual/student/athlete would use to prepare for participation in fitness activity or sport. Included are practical hands-on participatory experiences, program design strategy and practical field tests.

KINS 121. Peak Performance Through Psychological Skills. 3 Units
Term Typically Offered: Fall only

Examination of, and practical experience in, techniques for maximizing sport and creative performance through the development of mental skills and strategies for stress control, imagery, goal setting, and concentration.

KINS 122B. Cardiopulmonary Resuscitation. 1 Unit
Term Typically Offered: Fall, Spring

Designed to meet American Red Cross or American Heart Association Certification in CPR.
Note: May be repeated for credit.

Credit/No Credit

KINS 130. Elementary Physical Education Curriculum and Content. 3 Units
Prerequisite(s): KINS 138; Restricted to junior or senior Kinesiology majors-Physical Education concentration.
Term Typically Offered: Spring only

Overview of the total elementary physical education curriculum. Designed specifically for physical education concentration students. The primary focus will be placed on cooperative activities, movement education, development of locomotor, non-locomotor, manipulative skills, perceptual motor activities, fitness, games, and the correlation of classroom subjects with physical education. Introduces students to developmentally and instructionally appropriate physical education for children. Students will be able to develop a scope and sequence for an elementary physical education curriculum.

KINS 131. Secondary Physical Education Curriculum. 2 Units
Prerequisite(s): KINS 138; Kinesiology major - Physical Education concentration students only.
Term Typically Offered: Fall only

Designed for senior level students in the Kinesiology major, Physical Education Option, Credential Concentration who wish to deliver an effective, meaningful physical education curriculum to diverse students. Covers curriculum components that include content, content organization, distinctive curriculum models and aspects of curriculum application. Students will learn how to sustain a positive learning experience, conceive and plan meaningful curricula for school based instruction, and to link the school program to opportunities for adolescents outside of school.

KINS 132. Planning, Designing and Managing a Fitness Center. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide students with the basic guidelines for starting and managing multiple health and fitness centers in the private setting; focus on initial start-up of a health and fitness center and operating procedures with emphasis on equipment selection and arrangement, employee training, program planning for safe and optimally beneficial health and fitness results.

KINS 133. Integration of Concepts. 3 Units
Prerequisite(s): KINS PETE or PACC majors only; and GWAR certification before Fall 09; or WPJ score of 80+-; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Critical perspective of how theoretical concepts and integrated knowledge can be applied to various aspects of physical education, sport, and physical activity. Emphasis is on a coherent understanding of the interrelationships that exist in the subdisciplines of kinesiology and other related subject areas. Capstone experience for students in the Physical Education Concentration; must be taken during the final semester of the student’s plan of study.

KINS 134. History and Philosophy of Physical Education and Sport. 3 Units
Prerequisite(s): KINS 101. KINS 101 may be taken concurrently.
Term Typically Offered: Fall, Spring

Examination of historical events in physical education and sport; examination of how these historical events have influenced the varying philosophies of physical education, sport, and physical activity, past and present; identification of societal forces in cultures which lead to philosophical beliefs and concepts relative to the structure of the disciplines of physical education, sport, and physical activity.

KINS 135. Assessment Strategies in Physical Education. 3 Units
Term Typically Offered: Fall, Spring

Selection, analysis, construction and administration of norm-referenced and criterion-referenced tests used for formative and summative evaluation in the physical education public school setting. Includes both traditional and alternative assessment strategies. Computers are used for data collection, development of assessment instruments, development of grading programs, and for descriptive statistical analysis.

KINS 136. Sport And Aging. 3 Units
Term Typically Offered: Fall, Spring

Considers the positive and negative aspects of vigorous exercise and/or sport activity throughout the aging process. Included will be inquiry into the opportunities for activity among adults over the age of thirty, through the active career years, and beyond.
### KINS 137. Sociology Of Sport. 3 Units
**Prerequisite(s):** KINS 101. KINS 101 may be taken concurrently.
**Term Typically Offered:** Fall, Spring

Analyzes sport as a social institution and the interrelations between sport and societal subsystems. Consideration of the attitudes, values, and behaviors associated with sport. Analyzes contemporary problems associated with sport: race relations, the traditional and emergent role of women, leisure behavior, aggression and violence, and political and economic concerns. Analyzes a sociological problem within the context of sport.

### KINS 138. Sport Pedagogy. 3 Units
**Prerequisite(s):** Kinesiology Majors, Minors and Liberal Studies PE Concentration.
**Term Typically Offered:** Fall, Spring

Sport pedagogy examines learning, teaching and instruction in sport, physical education and related areas of physical activity. Content is focused on differentiated instructional strategies, effective teaching and learning skills, designing instructional plans, managerial behaviors, organizational arrangements, communication skills, and professionalism.

### KINS 139. Leadership and Communication. 3 Units
**Term Typically Offered:** Fall, Spring

Social actions and behavioral patterns as influenced by the communication process; experiential approaches to techniques of interpersonal and small group relationships and leadership; the constantly evolving communication media as instruments of behavioral change.

### KINS 141. PRO ACT I - Dual Sports. 3 Units
**Prerequisite(s):** KINS 138
**Corequisite(s):** KINS 138
**Term Typically Offered:** Fall only

Designed to prepare physical education students to analyze and teach developmentally appropriate activities designed for dual participation in the public school setting. Student will be given opportunity to learn and apply the basic techniques of tennis, badminton and pickleball as well as the offensive and defensive net strategies for game play. Emphasis will be given to skill acquisition analysis.

### KINS 142. Professional Activities II - Creative Movement and Dance. 3 Units
**Prerequisite(s):** KINS 138
**Term Typically Offered:** Spring only

Students will develop an understanding of the content specific to the design and delivery of educational gymnastics and rhythm/dance activities in a K-12 setting. Gymnastics components include: skills, appropriate progressions, spotting techniques, safety and methods of organization. Rhythm and dance will include basic locomotive skill development; basic rhythm activities; and contemporary, line, square, round, contra, folk, country and Western and social/ballroom dance. Historical and multicultural concepts related to dance are also included.

### KINS 144. Analysis of Weight Training & Muscular Fitness. 2 Units
**Prerequisite(s):** Restricted to Kinesiology, Pre-Exercise Science, Coaching Minor or instructor approval
**Term Typically Offered:** Fall, Spring

The course is designed to prepare students to teach, design, and implement strength/conditioning for various fitness/athletic populations. Included are skill techniques, skill analysis, class/group organization, equipment analysis, muscular fitness related to athletics, fitness, rehabilitation, and other factors related to effective teaching of muscular fitness in high school, college, private, public and corporate settings. Emphasis is on kinesiology/biomechanics principles, human anatomy, and physiological adaptations to the various strength/conditioning for fitness/athletic training covered in the course.

### KINS 145. Pro Act III - Team Sports. 3 Units
**Prerequisite(s):** KINS 138
**Corequisite(s):** KINS 138
**Term Typically Offered:** Fall only

This is an introductory course designed for students within the Kinesiology Major Physical Education Concentration to analyze the teaching of field sports in secondary school settings. This course provides the student the opportunity to learn basic techniques, strategies, and rules of flag football, volleyball, softball, soccer and basketball. Emphasis will be given to skill performance, skill development, teaching methodology, skill analysis, lead-up activities, and sport participation.

### KINS 146. PRO ACT IV Individual Sports. 3 Units
**Prerequisite(s):** KINS 138
**Corequisite(s):** KINS 138
**Term Typically Offered:** Spring only

Designed to prepare physical education students to analyze and teach developmentally appropriate activities designed for individual participation in the public school setting. Student will be given the opportunity to learn and apply the basic techniques of golf, track and field and aquatics as well as the strategies necessary for effective participation. Emphasis will be given to skill acquisition and analysis.

### KINS 148. ProAct V - Nontraditional Games and Sports. 3 Units
**Prerequisite(s):** KINS 138
**Corequisite(s):** KINS 138
**Term Typically Offered:** Fall only

Students will develop an understanding of the content specific to the design and delivery of non-traditional games and sports. Instruction will focus on performance, skill analysis, methods of teaching, strategies for instruction, and evaluation of skills in K-12 settings. The students will be introduced to a variety of nontraditional games and outdoor activities, as well non-traditional team sports including Lacrosse, Ultimate Frisbee, Speedball, Team Handball, and Field Hockey.
KINS 149. Professional Activities of Health and Skill Related Fitness. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Spring only

Students will develop an understanding of the content specific to the design/delivery of a variety of innovative fitness/wellness learning experiences for individuals in K-12 settings. Emphasis will be placed on movement and its relationship to the components of health fitness when pursuing and promoting a physically active lifestyle. Students will develop skills in assessing fitness levels and implementing strategies for supporting positive behaviors and attitudes toward fitness/wellness for individuals from diverse populations.

KINS 150. Exercise and Sport Physiology. 3 Units
Prerequisite(s): BIO 26 or equivalent, with grade of C or better
General Education Area/Graduation Requirement: Laboratory (B3), Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Sports physiology with special emphasis on studying the various systems in the body that are involved in work, exercise and sport. Training programs to improve these systems and their responses will be discussed in a wide variety of settings including exercise for health, fitness, recreation, and sports competition. Lecture two hours; laboratory 2.5 hours.

Note: Does not satisfy exercise physiology requirement for Exercise Science majors.

KINS 151. Kinesiology. 3 Units
Prerequisite(s): BIO 22 or equivalent.
Term Typically Offered: Fall, Spring

Anatomical concepts and physical laws as applied to human movement emphasizing the effects of individual and environmental variables. Includes analysis of normal and pathological gait. Lecture two hours; laboratory three hours.

KINS 151A. Biomechanics. 3 Units
Prerequisite(s): KINS 151.
Term Typically Offered: Fall, Spring

Introduction to fundamental mechanical concepts as they apply to human movement. A broad range of human movement will be explored including activities from sport, industrial settings, normal and pathological locomotory skills, and movements involved in manipulating the environment in which we live. Laws of physics, mechanical principles and mathematical concepts will be integrated in studying man as a biological entity. Lecture two hours; laboratory three hours.

KINS 151B. Biomechanics II. 3 Units
Prerequisite(s): BIO 10, BIO 22, KINS 151, and KINS 151A
Term Typically Offered: Fall, Spring

The study of biomechanical theory in regards to quantifying and analyzing human movement. Human movement will be examined from an advanced perspective, including tissue mechanics, the pathomechanics of chronic disease, and exercise and sport performance.

KINS 151C. Dance Kinesiology. 3 Units
Prerequisite(s): BIO 22 or equivalent.
Term Typically Offered: Fall, Spring

Human musculoskeletal and neurological systems, energy production, and biomechanical interrelationships of human motion applied to dance. Emphasis on the nervous, muscular and tendinous structures and the mechanical function of levers and force application and injury prevention for the dancer.

KINS 151D. Applied Kinesiology and Biomechanics. 3 Units
Prerequisite(s): BIO 26 with a grade of C or better.
Term Typically Offered: Fall, Spring

Fundamentals of human movement patterns with an emphasis on applied anatomy, movement principles, movement sequences, applied biomechanics, developmental motor stages and basic movement analysis.

Note: Does not satisfy kinesiology or biomechanics requirements for Exercise Science majors.

KINS 152. Physiology Of Exercise. 3 Units
Prerequisite(s): CHEM 1B or CHEM 6B and BIO 131
Term Typically Offered: Fall, Spring

Study of circulatory, respiratory and metabolic response to exercise in humans under various physiological and ambient conditions. Lecture 2 hours; laboratory 2.5 hours.

KINS 152A. Fundamentals of Exercise Programs. 3 Units
Prerequisite(s): KINS 152.
Term Typically Offered: Fall, Spring

Study of current training programs used in different types of activity. Emphasis will be placed on specific training techniques, nutritional needs, methods of testing/evaluating, and special considerations needed for various populations.

KINS 152B. Exercise Physiology of Women. 3 Units
Prerequisite(s): BIO 22 or 26
Term Typically Offered: Fall, Spring

Examines the general physiology of women, how physical activity affects women's physiological functions, and how physiological functions affect women in sport and exercise performance. A comprehensive review of scientific literature is included.

KINS 152C. Prolonged Exercise. 2 Units
Prerequisite(s): An introductory college biology or zoology course.
Term Typically Offered: Fall, Spring

Extensive review of the energy metabolism, cardiovascular and pulmonary function, endocrine response, nutritional need, training effect, and biochemical response to prolonged exercise of 1-6 hours in duration.

KINS 152D. Blood Lactate and Exercise. 2 Units
Prerequisite(s): KINS 152.
Term Typically Offered: Fall, Spring

Reviews the basic aspects of lactate formation, release, and uptake by skeletal muscle and blood during exercise and training. Presents recent clinical and research findings related to physical performance.
KINS 152S. Energy Production & Sports Performance. 3 Units
Prerequisite(s): KINS 152 and co-enrollment in KINS 153 or Instructor Permission Recommended: FACS 10 & FACS 113
Term Typically Offered: Fall, Spring
Study of ergogenic aids, exercise nutrition and exercise performance enhancing drugs/supplements and their physiological effects on energy production and exercise performance. Lecture: 3 hours

KINS 153. Cardiovascular Testing and Exercise Prescription. 3 Units
Prerequisite(s): KINS 152 or instructor permission.
Term Typically Offered: Fall, Spring
Designed to train exercise leaders, exercise test technologists, and exercise program directors. Focus is upon development of basic skills, both administrative and technical, needed to develop a program of graded exercise testing and exercise prescription for asymptomatic and symptomatic populations. Lecture two hours; laboratory three hours.

KINS 153C. Cardiac Rehabilitation & Exercise Electrocardiography. 3 Units
Prerequisite(s): KINS 153 or Instructor Permission
Term Typically Offered: Fall, Spring
Study of cardiac rehabilitation and exercise electrocardiography, reviews clinical pathophysiology and ECG abnormalities during rest, exercise stress testing and cardiac rehabilitation. Lecture 3 hours.

KINS 154A. Principles and Techniques in a Clinical Setting. 3 Units
Prerequisite(s): Athletic Training or Kinesiology majors only; instructor permission
Term Typically Offered: Fall, Spring
Introduction to professional ethics and attire, the allied health care system, patient transfers, wheelchair and ambulation aids, medical terminology and record keeping. Fundamental principles and concepts underlying the therapeutic application of modalities, including methods of administering heat, cold, electricity, sound, light and water are covered.

KINS 154B. Management and Health Care Administration in Athletic Training. 3 Units
Prerequisite(s): Instructor permission only
Term Typically Offered: Fall, Spring
Organization, management and health care administration of athletic training programs. Includes communication skills, budget, facility design and management, legal aspects, drug testing, education, computer use, insurance and record keeping, personnel development (job search, CEUs, licensure), professional and governing organizations, athletic training reporting systems, emergency action plans, blood borne pathogen procedures, preparticipation exam management, health care issues and fundraising.

KINS 154C. Therapeutic Modalities Laboratory. 1 Unit
Prerequisite(s): BIO 22 or BIO 26, and KINS 154A, and KINS 156, and instructor permission.
Term Typically Offered: Fall, Spring
Techniques and clinical skills in the treatment of injuries using therapeutic modalities. Hands-on experience in the clinical application of contemporary therapeutic modalities (electrotherapeutic modalities, hydrotherapeutic modalities, cryotherapy, radiant energy, paraffin, intermittent compression units, traction units, massage) including patient preparation, set-up, dosage determination and operational procedures. Lab two hours.

KINS 155A. Clinical Evaluation of the Upper Extremity. 2 Units
Prerequisite(s): BIO 22 or BIO 26 or Equivalent and KINS 156.
Term Typically Offered: Fall, Spring
Analyzes and performance of evaluation procedures of the upper extremity, head and spine. Includes the development of skills in a patient interviewing, palpation methods, manual muscle testing, neurological and orthopedic assessments and special tests.

KINS 155B. Clinical Evaluation of the Lower Extremity. 2 Units
Prerequisite(s): BIO 22 or BIO 26, KINS 154A, KINS 156.
Term Typically Offered: Fall, Spring
Analyzes and performance of evaluation procedures of the lower extremity, trunk and low back. Includes the development of skills in patient interviewing, palpation methods, manual muscle testing, neurological and orthopedic assessments and special tests.

KINS 156. Care Of Athletic Injuries. 3 Units
Term Typically Offered: Fall, Spring
Application and methods of caring for and preventing athletic injuries through strapping, padding, conditioning, etc.; practical application of first aid and a basic introduction to treatment and rehabilitation of common athletic injuries.

KINS 156A. Emergency Response. 2 Units
Term Typically Offered: Fall, Spring
Underlying principles and applied techniques of first aid. Meets the requirements for the Emergency Response and CPR for the Professional Rescuer certificates of the American Red Cross. Lecture one hour, laboratory two hours.

KINS 157. Therapeutic Exercise. 3 Units
Prerequisite(s): BIO 22 or BIO 26, KINS 155A or KINS 155B, and KINS 156. KINS 155A or KINS 155B can be taken concurrently with KINS 157
Term Typically Offered: Fall, Spring
Biomechanical principles in the prescription of musculoskeletal rehabilitation exercises. Topics include passive, active and resistive range of motion, manual muscle testing, and exercises for strength, stamina and suppleness for every part of the body.

KINS 157B. Therapeutic Exercise for Chronic Conditions. 3 Units
Prerequisite(s): BIO 22 & BIO 131, or BIO 26, or instructor permission
Term Typically Offered: Fall, Spring
This course is designed to develop knowledge of fundamental disease processes in common chronic conditions and related exercise management. The general concepts of common chronic disease, including etiology, basic pathogenesis, co-morbidities and basic exercise prescription will be investigated. Evidence will be investigated and presented about the role of exercise in the prevention and management of disease, disability and lifestyle.

KINS 158. Motor Learning and Control. 3 Units
Prerequisite(s): BIO 26 or BIO 131 or equivalent
Term Typically Offered: Fall, Spring
Study of the motor and cognitive characteristics of individuals involved in learning and controlling motion skills and the conditions that can influence that learning and control. Lecture two hours; laboratory three hours.
KINS 160. Sport and Exercise Psychology. 3 Units
Term Typically Offered: Fall, Spring
Application of research findings as they apply to psychological performance factors in sport, physical education and exercise settings, such as motivation/adherence, stress management, personality and psychological skills training.

KINS 161. Theory of Sport and Fitness Management. 3 Units
Term Typically Offered: Fall only
This course is designed to introduce students to the basic theory underlying the multiple components of the sport and fitness industry. Fundamental concepts and theories of sports and fitness management will be applied to various segments of the sports industry: professional sports, collegiate sports, community sports and recreation, intramural sports and corporate fitness.

KINS 165. Theory of Coaching. 3 Units
Term Typically Offered: Spring only
Students will be introduced to coaching theory as it relates to developing leadership skills to work with athletes, and teams in the context of organized sport. Topics will include motivation, self-esteem, leadership, communication, competition and cooperation, team management, and optimal performance skills (goal setting, concentration, composure, recovery from mistakes/loss, consistency, and stress management).

KINS 166. Ethics, Inclusion and Equity in Coaching. 3 Units
Term Typically Offered: Fall only
This course educates future coaches on the moral and ethical dilemmas typically encountered in competitive athletics. Students will also develop strategies to address various forms of exclusion and inequity in sports and athletics.

KINS 167. The African American Sport Experience. 3 Units
Term Typically Offered: Fall, Spring
Examination of the experiences of the African American athlete in sport and society, from the period of enslavement to the contemporary era. Topics include gender experiences, intercollegiate experiences, professional sport, and the Olympic games, as well as the interconnections between African American communities and the role of sport. The experiences of African Americans will be compared to those of other ethnic and cultural groups.

KINS 168. Sport and Film. 3 Units
Term Typically Offered: Fall, Spring
This course uses sport films to examine relationships of power in society and the way those relationships are contested and often reinforced. Particular attention will be paid to cultural tensions and negotiations around issues related to race, gender, class, and sexuality. This course utilizes films, with accompanying readings, to understand the institution of sport in American culture, as well to understand how sport is setting where issues of race, class, gender, religion, ability/disability, and sexuality are contested and reinforced.

KINS 169. The Modern Olympic Games. 3 Units
Term Typically Offered: Fall, Spring
A study of the historical development of the modern Olympic Games. Areas covered include politics, nationalism, commercialism, marketing and amateurism. The contribution of athletes and administrators who have help shape the Olympic tradition will be assessed.

KINS 171. Adapted Physical Education: Basic Skill/Fitness Activities and Assessment. 3 Units
Prerequisite(s): KINS 177.
Term Typically Offered: Fall, Spring
Development of competencies for planning, developing, and evaluating effective skill and fitness activities for students with disabilities. Emphasis will be placed on basic skill development, fitness and traditional and alternative assessment strategies and postures assessment and programming for students with disabilities. Information regarding the application of specific standardized assessment instruments for placement decisions will be examined. Students will be required to participate in 15 hours of service learning. Class meets for 2 hours lecture and 2 hours activity.

KINS 172. Movement Education. 3 Units
Prerequisite(s): Liberal Studies or Child Development majors only, or instructor permission
Term Typically Offered: Fall, Spring
Examination of activities and theoretical concepts that relate to the physical, social, emotional and intellectual development of the individual. Content includes: health-related physical fitness, movement concepts, stability, locomotor and manipulative skills, rhythms and dance, gymnastics, games and sport activities.

KINS 176. Perceptual Motor Development. 3 Units
Term Typically Offered: Fall, Spring
Study of the genetic, prenatal, perinatal and postnatal factors affecting the sequential perceptual motor development of children. Inquiry is made into reflexes, sensory motor testing and stimulation, perceptual motor testing and remedial activities in motor development.

KINS 177. Introduction to Adapted Physical Education. 3 Units
Term Typically Offered: Spring only
Historical and philosophical bases for adapted physical education, including the development and management of programs with emphasis on the psychomotor, affective and cognitive domains. The impact of federal and state legislation, legal liability and special health and safety problems will be studied in relationship to the role of the adapted physical education teacher, the interdisciplinary team, the parent and the pupil.

KINS 179. Adapted Physical Education: Program Planning. 3 Units
Prerequisite(s): KINS 171 and KINS 177.
Term Typically Offered: Fall, Spring
Study of the variables in physical education curriculum and program planning - assessment, goals and objectives, development of program content, and evaluation - as related to individuals with disabilities.

KINS 188. The Effects of Physical Activity on the Brain and Neurological Disorders. 3 Units
Prerequisite(s): KINS 158 or instructor permission
Term Typically Offered: Fall, Spring, Summer
This course will provide an in-depth evaluation of the molecular and systems-level neurophysiological changes as well as behavioral (movement, cognitive, affective/emotional) changes that manifest from physical activity and exercise. The changes resulting from acute vs. chronic exercise as well as different exercise modalities, intensities, frequencies, and durations will be explored. Pathophysiology of common neurological disorders, such as Parkinson's disease, Stroke, Multiple Sclerosis and dementia, and the role of physical activity/exercise in the development and treatment will be examined.
KINS 194A. Assigned Field Experience in Kinesiology. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned experience in Kinesiology. Students keep records of daily experiences and prepare periodic progress reports. Students receive one unit of credit for three hours per week for one semester of field experience.
Note: Registration requires prior approval of the department coordinator. May be repeated for a total of five units.

Credit/No Credit

KINS 194B. Assigned Internship in Exercise Science. 1 - 3 Units
Prerequisite(s): KINS 151 and/or KINS 152; or instructor permission.
Term Typically Offered: Fall, Spring

Assigned internship other than in the Human Performance Lab. The student will assist in laboratory experiments and other special procedures; will learn the operation of equipment and sequentially will be expected to administer tests and interpret the results. Interns will be expected to attend monthly conferences.
Note: May be repeated for a total of 3 units.

Credit/No Credit

KINS 194C. Assigned Field Experiences in Pre-Physical Therapy. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned experience under the direction of a physical therapist. Students keep records of their experiences. Registration requires prior approval of the pre-physical therapy coordinator.
Note: May be repeated up to a total of 6 units. Open to Physical Education majors in the pre-physical therapy option.

Credit/No Credit

KINS 194D. Assigned Field Experience in Coaching. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned experience in coaching (two hours daily for the full schedule of the sport for two units of credit). Students keep records of daily experiences and prepare periodic progress reports. Succeeding enrollments should be in different sports.
Note: May be repeated for a total of 6 units.

Credit/No Credit

KINS 194E. Assigned Internship in Adapted Physical Education. 1 - 3 Units
Prerequisite(s): Any two of the following: KINS 171, KINS 176, KINS 177, or KINS 179; permission of adapted credential advisor.
Term Typically Offered: Fall, Spring

Assigned experience in the conduct of Adapted Physical Education Programs. Students will keep records of their experiences. Three clock hours per week per unit of credit. Credential candidates may not use in lieu of Phase III requirements.
Note: May be repeated up to six times for credit for a maximum of 6 units.

Credit/No Credit

KINS 194F. Assigned Field Experience in Allied Health. 1 - 3 Units
Term Typically Offered: Fall, Spring

Practical experience in Occupational Therapy, Chiropractic or other allied health professions. Students keep records of their experiences while working under the direct supervision of a licensed clinician. Registration requires prior approval of a Pre-Physical Therapy advisor.
Note: May be repeated up to a total of 6 units.

Credit/No Credit

KINS 194G. Assigned Professional Experience. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned professional experience in organization and evaluation of physical education, athletic training, exercise or pre-therapy. Students work closely with a Sacramento State faculty member and receive one unit of credit for three hours of work per week for one semester.
Note: May be repeated for a total of 3 units toward graduation. These units may not be applied to the major.

Credit/No Credit

KINS 194H. Assigned Field Experience in Athletic Training. 1 - 3 Units
Prerequisite(s): Instructor's permission only
Term Typically Offered: Fall, Spring

Practical experience in athletic training under the direct supervision of an NATA Certified Athletic Trainer in one of the following settings: professional athletics, high school, clinic, industrial or private business.
Note: Registration requires prior approval of the program director. May be repeated up to a total of 3 units.

Credit/No Credit

KINS 195A. Directed Field Experience in Kinesiology. 1 - 2 Units
Term Typically Offered: Fall, Spring

Directed experience in the conduct of physical education. Students keep records of daily experiences and prepare periodic progress reports. Students receive one unit of credit three hours per week for one semester of field experience.
Note: Registration requires prior approval of the department coordinator. May be repeated for a total of 5 units.

Credit/No Credit

KINS 195B. Directed Internship in Exercise Science. 1 - 3 Units
Prerequisite(s): KINS 151 and/or KINS 152; or instructor permission.
Term Typically Offered: Fall, Spring

Directed internship in the Human Performance Laboratory under the supervision of one or more members of the faculty. The student will assist in laboratory experiments and other special procedures; will learn the operation of equipment and sequentially will be expected to administer tests and interpret the results. Interns will be expected to attend monthly conferences.
Note: May be repeated for a total of 3 units.

Credit/No Credit
KINS 195C. Directed Observation in Athletic Training. 1 - 2 Units
Prerequisite(s): Requires prior approval of Program Director
Term Typically Offered: Fall, Spring
Planned student observation of the health care practices of the Athletic Trainer and other sports medicine personnel in a clinical setting. Selected NATA competencies may be completed on site. 60 hours per unit.
Note: May be repeated for up to 4 units total credit.
Credit/No Credit

KINS 195D. Practicum in Athletic Training. 4 Units
Prerequisite(s): Instructor’s permission only
Term Typically Offered: Fall, Spring
Supervised athletic training experience in the athletic training room under the direct supervision of a Certified Athletic Trainer. Included are a series of guest lectures from the medical and paramedical field presenting lectures and demonstrations on topics in sports medicine. 300 hours plus all lectures are 4 units.
Note: Can be taken a minimum of four times and maximum of five times for credit, with the total units not to exceed 20 units.
Credit/No Credit

KINS 196. Experimental Offerings in Kinesiology. 2 - 3 Units
Term Typically Offered: Fall, Spring
Guided study and discussion of problems and topics in kinesiology. Supplemental readings, reports, and term projects are included. Proseminars dealing with specific topics or problems will be scheduled when the need exists.
Note: May be repeated for credit up to three times for credit.

KINS 196G. Sleep, Health and Athletic Performance. 3 Units
Term Typically Offered: Fall, Spring
This course is designed to introduce concepts related to sleep, circadian rhythm, human physiology, and behavior as they impact physical function, health and athletic performance. Concepts related to sleep, sleep deprivation, cognitive function, and learning outcomes in college students will be investigated. Students will have an opportunity to learn about devices used to collect data and analyze individual sleep patterns.

KINS 198A. Seminar in Physical Education - Elementary. 2 Units
Prerequisite(s): KINS 381 and EDTE 474A.
Corequisite(s): KINS 380 and EDTE 474B.
Term Typically Offered: Fall, Spring
Open to physical education single subject credential candidates this course accompanies an eight-week elementary student teaching experience. The focus is twofold: a) engage student teachers in the planning, instruction and assessment of an elementary physical education program aligned with state standards b) support student teachers with the Performance Assessment for California Teachers (PACT). Candidates will be expected to create a class environment that ensures the safe and productive participation in developmentally appropriate elementary physical education.

KINS 198B. Seminar in Physical Education - Secondary. 1 Unit
Prerequisite(s): KINS 198A.
Corequisite(s): EDTE 474B.
Term Typically Offered: Fall, Spring
Open to physical education single subject credential candidates this eight-week course accompanies an eight-week secondary student teaching experience. The focus is twofold: a) engage student teachers in the planning, instruction and assessment of a secondary physical education program aligned with state standards b) support student teachers with the Performance Assessment for California Teachers (PACT). Candidates will be expected to create a class environment that ensures the safe and productive participation in developmentally appropriate secondary physical education.

KINS 199. Directed Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual research, project or directed reading. Open only to majors who appear competent to carry on individual work. Approval of the faculty under whom the individual work is to be conducted, and approval of the Department Chair required. Formal written report required.
Note: May be repeated for credit.
Credit/No Credit

KINS 203. Specificity of Conditioning. 3 Units
Term Typically Offered: Fall, Spring
Survey of current research in training regimen of conditioning programs designed to optimize physical conditioning in preparation for specific athletic competitions.

KINS 209. Graduate Studies in Kinesiology. 3 Units
Term Typically Offered: Fall, Spring
An overview of the varied subdisciplines, such as sport pedagogy, motor learning, strength and conditioning, sport psychology, cultural studies of sport, exercise physiology, and biomechanics. Students will read research from each subdiscipline and be able to make interdisciplinary connections.

KINS 210. Research Methods in Kinesiology. 3 Units
Term Typically Offered: Fall, Spring
Various methods and techniques of educational research as they are commonly applied in the field of Kinesiology; study of examples of their use in published research; practice in applying them to problems of interest to the student; analyzing data and writing research reports.

KINS 211. Research Seminar. 1 Unit
Term Typically Offered: Fall, Spring
Students develop and defend research proposals. Students registering for KINS 500 for the first time must register for KINS 211 concurrently.
Note: Student must re-enroll if proposal is not completed and accepted during the first registration
Credit/No Credit
KINS 236. Sport and Society.  
Term Typically Offered: Fall, Spring

Society and the institution of sport interact in a variety of ways. Students are given the opportunity to investigate and discuss in-depth a wide range of topics linking sport and society. Among these topics are violence and aggression, politics, racism, sexism, counter-cultures, mass media and the future of sport. The application of research to the real world is an integral part of the course.

KINS 245. Administration of Physical Education and Athletics. 3 Units  
Term Typically Offered: Fall, Spring

The organization and administration of physical education and athletic programs and the functional considerations involved. Primary areas include: personnel, curriculum, budgeting, contract management, public relations, liability and safety, critical issues, and procedures essential to quality programs.

KINS 250. Advanced Exercise Physiology Laboratory. 3 Units  
Prerequisite(s): KINS 152 or instructor permission.  
Term Typically Offered: Fall, Spring

Describes, explains, and practices the application of selected measurement techniques in the laboratory as they relate to pertinent research in the areas of exercise physiology. Emphasis will be placed on the use and calibration of equipment as well as adaptation of equipment to different research settings. Lecture two hours; laboratory three hours.

KINS 252. Advanced Exercise Physiology. 3 Units  
Prerequisite(s): 1 year of General Chemistry, BIO 131 or equivalent, KINS 152 or equivalent, and KINS 153 or equivalent.  
Term Typically Offered: Fall, Spring

Human physiological responses, from the cellular level to organ system level, to both acute and chronic exercise will be studied in detail with an emphasis on integrative physiological responses to exercise. The course will emphasize a complex regulatory systems approach to the changes and adaptations that occur with exercise. Specifically, how the regulatory systems dictate these changes. The course will aid in the understanding of both theoretical and integrative concepts in the area of exercise physiology. The course will provide a solid foundation that is needed to review and understand complex research in exercise physiology.

KINS 254. Advanced Biomechanics. 3 Units  
Prerequisite(s): KINS 151, KINS 210; or instructor permission.  
Term Typically Offered: Fall, Spring

Study human movement from a mechanical perspective utilizing laws of physics and relevant functional anatomical principles. Human movement will be looked at from a broad perspective, including basic movements to more complex skills. Students will use a variety of techniques to study the biomechanical principles of movement production including laboratory work, library research and examination of the appropriate theoretical constructs. Lecture two hours; laboratory three hours.

KINS 258. Research in Motor Learning. 3 Units  
Prerequisite(s): KINS 158, KINS 210, or instructor permission.  
Term Typically Offered: Fall, Spring

Designed to provide students with a solid foundation experience in motor learning; focus is on an intensive examination of a selected topic in motor learning; directed individual pilot study and the nature of original laboratory research.

KINS 259. Research in Exercise Physiology. 3 Units  
Prerequisite(s): KINS 152, KINS 210, or instructor permission.  
Term Typically Offered: Fall, Spring

Provides students with a solid foundation experience in human performance research. Primary focus is on intensive examination of selected advanced topics in exercise physiology.

KINS 260. Psychology Of Sport. 3 Units  
Term Typically Offered: Fall, Spring

The in-depth study of parameters of human behavior as specifically related to sport including personality factors, motivational techniques, expectancy effects, group dynamics, leadership issues, aggression, arousal, concentration, and goal setting.

KINS 262. Psychological Aspects of Peak Performance. 3 Units  
Term Typically Offered: Fall, Spring

In-depth examination of current research relating to theories of and techniques for performance enhancement in sport and dance through psychological skills strategies.

KINS 270. Instructional Strategies for Physical Activity and Sport. 3 Units  
Term Typically Offered: Fall, Spring

Study of theoretical concepts, models and research that relates to organizational and instructional strategies for physical activity and sport. Along with developing problem solving and critical thinking skills, provides the student with the opportunity to partake in self-directed and cooperative learning experiences, and develops communications skills that will enhance staff development and teaching of individuals and groups in a variety of physical activity and sport environments.

KINS 276. Teaching and Coaching Effectiveness. 3 Units  
Term Typically Offered: Fall, Spring

Study of the research methodology, systematic observation, and findings that relate to effective teaching and coaching in the school environment. Provides an analytical approach to the investigation of teaching and coaching behaviors by examining models and critical variables involved in describing, analyzing and interpreting the instructional process.

KINS 284. Contemporary Topics in Sport Performance. 1 - 3 Units  
Prerequisite(s): KINS 210.  
Term Typically Offered: Fall, Spring

Advanced research seminars on topics of contemporary interest. Specific topics will vary.  
Note: May be taken more than once for credit, provided topic is not repeated.

KINS 294A. Contemporary Topics in Exercise Physiology. 1 - 3 Units  
Prerequisite(s): KINS 210.  
Term Typically Offered: Fall, Spring

Advanced research seminars on topics of contemporary interest. Specific topics will vary.  
Note: May be taken more than once for credit, provided topic is not repeated.
KINS 294C. Special Topics in Biomechanics. 1 - 3 Units
Prerequisite(s): KINS 254.
Term Typically Offered: Fall, Spring

Advanced research seminars on varied topics of contemporary interest.
Note: May be taken more than once for credit, provided topic is not repeated.

KINS 295. Practicum. 1 - 3 Units
Prerequisite(s): Approval of graduate faculty advisor and graduate coordinator.
Term Typically Offered: Fall, Spring

Graduate experiences in a practical setting.
Note: Open only to graduate students within the Physical Education Department.

Credit/No Credit

KINS 296A. Experimental Elementary Physical Education Workshop. 1 Unit
Term Typically Offered: Fall, Spring

Overview of the total elementary physical education curriculum. Major focus will be on appropriate practices, national content standards, establishing a learning environment, movement concepts, skill themes, and health-related physical fitness. Designed to meet the physical education component for graduate students seeking a multiple subject credential.
Note: Not open to undergraduate students, and it does not substitute for KINS 172.

Credit/No Credit

KINS 299. Directed Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research, project, or directed reading.
Note: Open only to majors who appear competent to carry on individual work. Admission to this course requires approval of the graduate advisor and the graduate coordinator. Formal written report required. May be repeated for credit.

Credit/No Credit

KINS 380. Methods of Teaching Elementary Physical Education. 1.5 Units
Prerequisite(s): KINS 130, Corequisite(s): KINS 198A
Term Typically Offered: Fall, Spring

KINS 380 is an 8 week course designed for the future physical educator who wishes to deliver an effective, meaningful elementary physical education curriculum to a diverse population of students. Emphasis is on physical education pedagogy - the skills and techniques that successful teachers use to ensure student learning.

KINS 381. Methods of Teaching Secondary Physical Education. 1.5 Units
Corequisite(s): EDTE 366A
Term Typically Offered: Fall, Spring

An 8 week course, KINS 381 is designed for the future physical educator who wishes to deliver an effective meaningful physical education curriculum to a diverse population of students. Emphasis is on physical education pedagogy - the skills and techniques that successful teachers use to ensure student learning.

KINS 500. Culminating Experience. 1 - 4 Units
Prerequisite(s): Advanced to candidacy. Completion of KINS 211 or concurrent enrollment.
Term Typically Offered: Fall, Spring

Completion of a thesis or project under the direction of a department committee.

BS in Exercise Science (Clinical Exercise & Rehabilitation Specialist)

Units required for Major: 60
Total units required for BS: 120

Program Description

Exercise Science program mission is to study the scientific basis of how the human body functions across the lifespan in response to physical activity, exercise, and sport. Exercise Science curriculum integrates knowledge from such science disciplines as biology, chemistry, and physiology so that students will gain a deep integrative understanding of human body functions at the mechanical, cellular, organ, and systems levels.

The major in Exercise Science qualifies an individual for career possibilities in cardiac rehabilitation, sports medicine, chiropractic, athletic training, geriatrics, health related fitness programming (fitness and corporate), and further scientific training in graduate school.

The Clinical Exercise and Rehabilitation Specialist concentration is designed for students who want to develop the knowledge, skills, and expertise required to work in a clinical rehabilitation setting. Students who complete this emphasis are prepared for careers in cardiac rehabilitation, clinical exercise physiology, electrophysiology, and clinical graduate programs such as Physical Therapy, Occupational Therapy, and other health related professional preparation programs.

Note: Students graduating with a BS in Exercise Science will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Pre-Major Requirements

Freshman or transfer students interested in the BS in Exercise Science are admitted as Pre-Exercise Science Major students.

To change to a BS in Exercise Science, Pre-major students are required to complete the following grade and course requirements and submit a Declaration of Major/Concentration to the Kinesiology Department Office along with transcript copies.

1. An overall GPA of 2.0.
2. Completion of the Pre-Major required courses with a "C-" or better. Only first and second attempts will be considered.

Minimum Grade Requirement

All courses counted for the Exercise Science major must be completed with a "C-" or better.
### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Lower Division Core Courses (17 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 10</td>
<td>Basic Biological Concepts ¹</td>
<td>3</td>
</tr>
<tr>
<td>BIO 22</td>
<td>Introductory Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I ¹ ²</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM 6A</td>
<td>Introduction to General Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM 6B</td>
<td>Introduction to Organic and Biological Chemistry</td>
<td></td>
</tr>
<tr>
<td><strong>Required Upper Division Core Courses (43 Units)</strong></td>
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</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
<td>4</td>
</tr>
<tr>
<td>KINS 151</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINS 151A</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KINS 152</td>
<td>Physiology Of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINS 152A</td>
<td>Fundamentals of Exercise Programs</td>
<td>3</td>
</tr>
<tr>
<td>KINS 152S</td>
<td>Energy Production &amp; Sports Performance</td>
<td>3</td>
</tr>
<tr>
<td>KINS 144</td>
<td>Analysis of Weight Training &amp; Muscular Fitness</td>
<td>2</td>
</tr>
<tr>
<td>KINS 153</td>
<td>Cardiovascular Testing and Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KINS 156</td>
<td>Care Of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>KINS 158</td>
<td>Motor Learning and Control</td>
<td>3</td>
</tr>
<tr>
<td><strong>Clinical Exercise &amp; Rehabilitation Specialist Concentration</strong></td>
<td>13</td>
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<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>60</strong></td>
</tr>
</tbody>
</table>

¹ Course also satisfies General Education (GE)/Graduation Requirement.

### Clinical Exercise & Rehabilitation Specialist Concentration

In prior consultation with an exercise science advisor, a minimal of 13 units from the recommended list of courses below are required in addition to the core courses above:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Select 13 units from the following:</strong></td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>BIO 39</td>
<td>Microbiology for Allied Health Students</td>
<td></td>
</tr>
<tr>
<td>BIO 106</td>
<td>Genetics: From Mendel to Molecules</td>
<td></td>
</tr>
<tr>
<td>BIO 122</td>
<td>Advanced Human Anatomy</td>
<td></td>
</tr>
<tr>
<td>BIO 123</td>
<td>Neuroanatomy</td>
<td></td>
</tr>
<tr>
<td>BIO 130</td>
<td>Histology</td>
<td></td>
</tr>
<tr>
<td>BIO 132</td>
<td>Neurophysiology</td>
<td></td>
</tr>
<tr>
<td>BIO 133</td>
<td>Cardiovascular, Respiratory and Renal Physiology</td>
<td></td>
</tr>
<tr>
<td>CHEM 20</td>
<td>Organic Chemistry Lecture—Brief Course</td>
<td></td>
</tr>
<tr>
<td>CHEM 161</td>
<td>General Biochemistry</td>
<td></td>
</tr>
<tr>
<td>NUFD 10</td>
<td>Nutrition And Wellness</td>
<td></td>
</tr>
<tr>
<td>NUFD 113</td>
<td>Nutrition And Metabolism ¹</td>
<td></td>
</tr>
<tr>
<td>KINS 122B</td>
<td>Cardiopulmonary Resuscitation</td>
<td></td>
</tr>
<tr>
<td>KINS 151B</td>
<td>Biomechanics II</td>
<td></td>
</tr>
<tr>
<td>KINS 153C</td>
<td>Cardiac Rehabilitation &amp; Exercise Electrocardiography</td>
<td></td>
</tr>
<tr>
<td>KINS 154A</td>
<td>Principles and Techniques in a Clinical Setting</td>
<td></td>
</tr>
<tr>
<td>NURS 14</td>
<td>Pharmacology</td>
<td></td>
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<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound ¹ ²</td>
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<tr>
<td>PHYS 5B</td>
<td>General Physics: Light, Electricity and Magnetism, Modern Physics</td>
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<tr>
<td>PSYC 150</td>
<td>Psychological Aspects of Aging</td>
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<tr>
<td>or PSYC 168</td>
<td>Abnormal Psychology</td>
<td></td>
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<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
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<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

¹ Course also satisfies General Education (GE)/Graduation Requirement.

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
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<tr>
<td><strong>Area B: Physical Universe and Its Life Forms (13-19 Units)</strong></td>
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<td></td>
</tr>
<tr>
<td>B1 - Physical Science ²</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms ²</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)²</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts ³</td>
<td>0</td>
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<tr>
<td><strong>Area C: Arts and Humanities (12 Units)</strong></td>
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<td></td>
</tr>
<tr>
<td>C1 - Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Area C Course</td>
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<td></td>
</tr>
<tr>
<td><strong>Area D: The Individual and Society (12 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Area E: Understanding Personal Development (0-3 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area E Course ⁵</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>46-55</td>
<td></td>
</tr>
</tbody>
</table>

¹ To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

² Required in Major; also satisfies GE.

³ Department offers students a "select from the following option" within the Concentration:

• If student chooses to take STAT 1, they will meet Area B4.
4 Department offers students a "select from the following option" within the Concentration:
   • If student chooses to take NUFD 113, they will meet Area BS.

5 Department offers students a "select from the following option" within the Concentration:
   • If student chooses to take NUFD 10, they will meet Area E.

**Graduation Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required.”

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Note: Students with a declared major of BS in Exercise Science are exempt from the Foreign Language Graduation Requirement.

---

**BS in Exercise Science (Health Fitness/Strength Conditioning)**

*Units required for Major: 60  
Total units required for BS: 120*

**Program Description**

Exercise Science program mission is to study the scientific basis of how the human body functions across the lifespan in response to physical activity, exercise and sport. Exercise Science curriculum integrates knowledge from such science disciplines as biology, chemistry, and physiology so that students will gain a deep integrative understanding of human body functions at the mechanical, cellular, organ, and systems levels.

The major in Exercise Science qualifies an individual for career possibilities in cardiac rehabilitation, sports medicine, chiropractic, athletic training, geriatrics, health related fitness programming (fitness and corporate), and further scientific training in graduate school.

The Health Fitness/Strength Conditioning Specialist Concentration is designed for students who are interested in advanced scientific knowledge of how physical activity, exercise and sport alter health and human performance. Many students from this option pursue careers in fitness and corporate wellness, strength conditioning, and further their scientific training in graduate school.

Note: Students graduating with a **BS in Exercise Science** will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

**Pre-Major Requirements**

Freshman or transfer students interested in the BS in Exercise Science are admitted as Pre-Exercise Science Major students.

To change to a BS in Exercise Science, Pre-major students are required to complete the following grade and course requirements and submit a Declaration of Major/Concentration to the Kinesiology Department Office along with transcript copies.

1. An overall GPA of 2.0.
2. Completion of the Pre-Major required courses with a "C-" or better. Only first and second attempts will be considered.

**Minimum Grade Requirement**

All courses counted for the Exercise Science major must be completed with a "C-" or better.

**Program Requirements**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Lower Division Core Courses (17 Units)</td>
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</tr>
<tr>
<td>BIO 10</td>
<td>Basic Biological Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM 6A</td>
<td>Introduction to General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM 6B</td>
<td>Introduction to Organic and Biological Chemistry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Required Upper Division Core Courses (43 Units)</td>
<td></td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
<td>4</td>
</tr>
<tr>
<td>KINS 151</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINS 151A</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KINS 152</td>
<td>Physiology Of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINS 152A</td>
<td>Fundamentals of Exercise Programs</td>
<td>3</td>
</tr>
<tr>
<td>KINS 152S</td>
<td>Energy Production &amp; Sports Performance</td>
<td>3</td>
</tr>
<tr>
<td>KINS 144</td>
<td>Analysis of Weight Training &amp; Muscular Fitness</td>
<td>2</td>
</tr>
<tr>
<td>KINS 156</td>
<td>Care Of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>KINS 153</td>
<td>Cardiovascular Testing and Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KINS 158</td>
<td>Motor Learning and Control</td>
<td>3</td>
</tr>
<tr>
<td>Health Fitness/Strength Conditioning Specialist Concentration</td>
<td>13</td>
<td></td>
</tr>
</tbody>
</table>

| Total Units | 60 |

1 Course also satisfies General Education (GE)/Graduation Requirement.

**Health Fitness/Strength Conditioning Specialist Concentration**

In prior consultation with an exercise science advisor, a minimal of 13 units from the recommended list of courses below are required in addition to the core courses above:
To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

3 Department offers students a "select from the following option" within the Concentration:
   • If student chooses to take STAT 1, they will meet Area B4.

4 Department offers students a "select from the following option" within the Concentration:
   • If student chooses to take NUFD 113, they will meet Area B5.

5 Department offers students a "select from the following option" within the Concentration:
   • If student chooses to take NUFD 10, they will meet Area E.

Graduation Requirements

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

3 Students with a declared major of BS in Exercise Science are exempt from the Foreign Language Graduation Requirement.

Program Description

The Bachelor of Science degree in Kinesiology provides students with a multi-disciplinary approach to the study of human movement, a
strong foundation in the natural and social sciences, and the knowledge and skills necessary to prepare students for careers in fields such as physical education, athletic coaching, athletic administration, corporate or commercial wellness, older adult fitness, athletic training, and other physical activity related professions.

The BS in Kinesiology offers five concentrations designed to meet students' specific academic needs and career interests in the areas of Physical Education Teacher Education, Athletic Coaching Education, Athletic Administration, Physical Activity and Wellness, and Athletic Care.

The Athletic Administration Concentration helps prepare students for future careers in the business of sports at the amateur, collegiate, and professional levels. The curriculum provides students with knowledge in the multiple sub-disciplines of Kinesiology as well as foundational business skills and hands-on experience in one or more areas of sport management including leadership, marketing, law, finance, and event planning. Students will also develop stronger communication, critical thinking, and problem-solving skills.

Note: Additional units may be required to meet the Sacramento State foreign language requirement.

Minimum Grade Requirement
All courses listed must be completed with a grade of "C" or better.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Lower Division (8 Units)</td>
<td></td>
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<tr>
<td>BIO 25</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 26</td>
<td>Human Anatomy and Physiology II</td>
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<tr>
<td>Required Upper Division (23 Units)</td>
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<tr>
<td>KINS 101</td>
<td>Kinesiology: Research and Practice</td>
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<td>KINS 134</td>
<td>History and Philosophy of Physical Education and Sport</td>
<td>3</td>
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<td>KINS 137</td>
<td>Sociology Of Sport</td>
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<tr>
<td>KINS 138</td>
<td>Sport Pedagogy</td>
<td>3</td>
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<tr>
<td>KINS 150</td>
<td>Exercise and Sport Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KINS 151D</td>
<td>Applied Kinesiology and Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KINS 158</td>
<td>Motor Learning and Control</td>
<td>3</td>
</tr>
<tr>
<td>KINS 160</td>
<td>Sport and Exercise Psychology</td>
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<tr>
<td>Concentration Requirements (28-29 Units)</td>
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<tr>
<td>Select one of the following five areas of concentration:</td>
<td>28-29</td>
<td></td>
</tr>
<tr>
<td>Athletic Care</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Athletic Coaching Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Activity and Wellness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Education Teacher Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sport Management</td>
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</tbody>
</table>

Total Units 59-60

Concentration in Athletic Administration (29 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>Required Concentration Courses (11 Units)</td>
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<tr>
<td>KINS 139</td>
<td>Leadership and Communication</td>
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<tr>
<td>KINS 161</td>
<td>Theory of Sport and Fitness Management</td>
<td>3</td>
</tr>
<tr>
<td>KINS 155</td>
<td>Theory of Coaching</td>
<td>3</td>
</tr>
<tr>
<td>KINS 194D</td>
<td>Assigned Field Experience in Coaching</td>
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</table>

Electives (18 Units)
Select six from the following: 18

Courses in Leadership and Communication

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>COMS 103</td>
<td>Presentational Speaking in the Organization</td>
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<tr>
<td>COMS 179</td>
<td>Media, Sports, and Society</td>
<td>3</td>
</tr>
<tr>
<td>COMS 119</td>
<td>Conflict Resolution Through Communication</td>
<td>3</td>
</tr>
<tr>
<td>or HROB 155</td>
<td>Conflict Management and Negotiation</td>
<td>3</td>
</tr>
<tr>
<td>KINS 121</td>
<td>Peak Performance Through Psychological Skills</td>
<td>3</td>
</tr>
<tr>
<td>KINS 166</td>
<td>Ethics, Inclusion and Equity in Coaching</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 32</td>
<td>Leadership and Group Development</td>
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Courses in Development, Budgeting and Fundraising

<table>
<thead>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>RPTA 60</td>
<td>Budgeting for Recreation Services</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 163</td>
<td>Grant Writing for Social, Community and Human Service Organizations</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 164</td>
<td>Leadership and Fundraising for Non-profit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 166</td>
<td>Administration in Recreation, Parks and Tourism</td>
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Courses in Marketing

<table>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MKTG 101</td>
<td>Principles Of Marketing</td>
<td>3</td>
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<tr>
<td>MKTG 140</td>
<td>Sports Marketing</td>
<td>3</td>
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<tr>
<td>RPTA 183</td>
<td>Marketing Recreation Services</td>
<td>3</td>
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</tbody>
</table>

Courses in Event Planning and Programming

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTA 105</td>
<td>Management in Recreation, Parks and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 106</td>
<td>Introduction to Inclusive Recreation and Recreation Therapy</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 130</td>
<td>Community Sport Programming</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 132</td>
<td>Campus Recreation</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 136</td>
<td>Program and Event Planning in Recreation, Parks and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 139</td>
<td>Conference and Meeting Planning</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 165</td>
<td>Volunteer Management in Nonprofit, Service, or Community Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 29

1 Students will receive 2 units of credit for KINS 194D.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
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<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
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<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1 - Physical Science</td>
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<td>B2 - Life Forms</td>
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<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) 2</td>
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<tr>
<td>B4 - Math Concepts</td>
<td>3</td>
<td></td>
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<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements. 2</td>
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<td></td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
BS in Kinesiology (Athletic Care)

Units required for Major: 59-60

Total units required for BS: 120

Program Description

The Bachelor of Science degree in Kinesiology provides students with a multi-disciplinary approach to the study of human movement, a strong foundation in the natural and social sciences, and the knowledge and skills necessary to prepare students for careers in fields such as physical education, athletic coaching, athletic administration, corporate or commercial wellness, older adult fitness, athletic training, and other physical activity related professions.

The BS in Kinesiology offers five concentrations designed to meet students’ specific academic needs and career interests in the areas of Physical Education Teacher Education, Athletic Coaching Education, Athletic Administration, Physical Activity and Wellness, and Athletic Care.

The Athletic Care Concentration is designed to provide students with the basics in injury evaluation, immediate care, rehabilitation, and injury prevention. Students in this concentration will develop knowledge and practical skills to pursue advanced study and future careers in athletic training, sports medicine, and other paramedical areas. Upon completion of the degree, students are also encouraged to pursue a teaching credential.

Note: Additional units may be required to meet the Sacramento State foreign language requirement.

Minimum Grade Requirement

All courses listed must be completed with a grade of "C" or better.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BIO 25</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
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<tr>
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</table>

**Required Upper Division (23 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINS 101</td>
<td>Kinesiology: Research and Practice</td>
<td>2</td>
</tr>
<tr>
<td>KINS 134</td>
<td>History and Philosophy of Physical Education and Sport</td>
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<tr>
<td>KINS 150</td>
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</tr>
<tr>
<td>KINS 151D</td>
<td>Applied Kinesiology and Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KINS 158</td>
<td>Motor Learning and Control</td>
<td>3</td>
</tr>
<tr>
<td>KINS 160</td>
<td>Sport and Exercise Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Concentration Requirements (28-29 Units)**

Select one of the following five areas of concentration:

- Athletic Administration
- Athletic Care
- Athletic Coaching Education
- Physical Activity and Wellness
- Physical Education Teacher Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
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**Concentration Requirements (28-29 Units)**

Select one of the following five areas of concentration:

- Athletic Administration
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- Athletic Coaching Education
- Physical Activity and Wellness
- Physical Education Teacher Education

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BS in Kinesiology (Athletic Care)

Units required for Major: 59-60

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**Concentration Requirements (28-29 Units)**

Select one of the following five areas of concentration:

- Athletic Administration
- Athletic Care
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- Physical Activity and Wellness
- Physical Education Teacher Education

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BS in Kinesiology (Athletic Care)

Units required for Major: 59-60

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**Concentration Requirements (28-29 Units)**

Select one of the following five areas of concentration:

- Athletic Administration
- Athletic Care
- Athletic Coaching Education
- Physical Activity and Wellness
- Physical Education Teacher Education

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</tr>
</thead>
<tbody>
<tr>
<td>KINS</td>
<td></td>
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</table>
## Concentration in Athletic Care (29 Units)

### Required Concentration Courses (21 Units)

<table>
<thead>
<tr>
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<th>Units</th>
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<tbody>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
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<tr>
<td>or CHEM 6A</td>
<td>Introduction to General Chemistry</td>
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<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
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</tr>
<tr>
<td>KINS 155A</td>
<td>Clinical Evaluation of the Upper Extremity</td>
<td>2</td>
</tr>
<tr>
<td>KINS 155B</td>
<td>Clinical Evaluation of the Lower Extremity</td>
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<tr>
<td>KINS 156</td>
<td>Care Of Athletic Injuries</td>
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<tr>
<td>KINS 157</td>
<td>Therapeutic Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINS 194A</td>
<td>Assigned Field Experience in Kinesiology</td>
<td>2</td>
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### Electives (8 Units)

Select three of the following:
- CHEM 6B Introduction to Organic and Biological Chemistry
- NUFD 10 Nutrition And Wellness
- NUFD 113 Nutrition And Metabolism
- NUFD 120 Practical Application in Sports Nutrition
- GER 100 Aging Issues in Contemporary America
- GER 121 Strategies for Optimal Aging
- GER 122 Interprofessional Approaches to Health Care in Older Adults
- KINS 122B Cardiopulmonary Resuscitation
- PUBH 148 Epidemiology
- PSYC 137 Stress Management
- STAT 1 Introduction to Statistics

Total Units: 29

1. Students will receive 2 units of credit for KINS 194A.

## General Education

### Area A: Basic Subjects (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
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</table>

### Area B: Physical Universe and Its Life Forms (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
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<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
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### Area C: Arts and Humanities (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
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<tr>
<td>C1/C2</td>
<td>Area C Course</td>
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<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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## Graduation Requirements

### Code | Title                                             | Units
<table>
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<tr>
<th></th>
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</thead>
<tbody>
<tr>
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### Area C: Arts and Humanities (12 Units)

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

### Area D: The Individual and Society (9 Units)

#### Area D Course

Area D Course: 3 units

### Total Units: 45

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies GE.

### Graduation Requirements (required by CSU) (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

### Graduation Requirements (required by Sacramento State) (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
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<td>Math Concepts</td>
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</tr>
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<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
</tbody>
</table>

### Foreign Language Proficiency Requirement

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies Graduation Requirement.

3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C" or better required; The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

## BS in Kinesiology (Athletic Coaching Education)

Units required for Major: 59-60

### Program Description

The Bachelor of Science degree in Kinesiology provides students with a multi-disciplinary approach to the study of human movement, a strong foundation in the natural and social sciences, and the knowledge and skills necessary to prepare students for careers in fields such as physical
education, athletic coaching, athletic administration, corporate wellness, commercial fitness, older adult fitness, and athletic training.

The BS in Kinesiology offers five concentrations designed to meet students' specific academic needs and career interests in the areas of Athletic Administration, Athletic Care, Athletic Coaching Education, Physical Activity and Wellness, and Physical Education.

The Athletic Coaching Education concentration provides students with knowledge and practical experience in supporting careers in athletic and community settings, athletic coaching, mental performance enhancement, and community and youth physical activity and sport programs. Students will also be eligible to earn a Coaching Certification from the American Sport Education Program (ASEP), which is required to coach at the high school level in the state of California (as mandated by the California Interscholastic Federation). This concentration also prepares students for advanced study in athletic coaching, administration, and other sport-related programs (e.g., sport psychology, sport sociology). Note: *The ASEP coaching certification does not fulfill the requirements for a Single Subject Physical Education California Teaching Credential. To be eligible for the teaching credential, students should meet the requirements for the Physical Education Teacher Education Concentration.

Note: Additional units may be required to meet the Sacramento State foreign language requirement.

Minimum Grade Requirement
All courses listed must be completed with a grade of "C" or better.

Program Requirements

Concentration in Athletic Coaching Education (29 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINS 120</td>
<td>Strength and Conditioning</td>
<td>3</td>
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<tr>
<td>KINS 121</td>
<td>Peak Performance Through Psychological Skills</td>
<td>3</td>
</tr>
<tr>
<td>KINS 139</td>
<td>Leadership and Communication</td>
<td>3</td>
</tr>
<tr>
<td>KINS 141</td>
<td>PRO ACT I - Dual Sports</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or KINS 145 - Pro Act III - Team Sports</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or KINS 146 - PRO ACT IV Individual Sports</td>
<td></td>
</tr>
<tr>
<td>KINS 165</td>
<td>Theory of Coaching</td>
<td>3</td>
</tr>
<tr>
<td>KINS 166</td>
<td>Ethics, Inclusion and Equity in Coaching</td>
<td>3</td>
</tr>
<tr>
<td>KINS 194D</td>
<td>Assigned Field Experience in Coaching</td>
<td>2</td>
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</tbody>
</table>

Electives (9 Units)
Select three of the following:

- KINS 110 - Women and Sport
- KINS 141 - PRO ACT I - Dual Sports
- KINS 142 - Professional Activities II - Creative Movement and Dance
- KINS 144 - Analysis of Weight Training & Muscular Fitness
- KINS 145 - Pro Act III - Team Sports
- KINS 146 - PRO ACT IV Individual Sports
- KINS 148 - ProAct V - Nontraditional Games and Sports
- KINS 149 - Professional Activities of Health and Skill Related Fitness
- KINS 156 - Care Of Athletic Injuries
- RPTA 32 - Leadership and Group Development
- RPTA 130 - Community Sport Programming
- NUFD 10 - Nutrition And Wellness
- NUFD 113 - Nutrition And Metabolism
- NUFD 120 - Practical Application in Sports Nutrition
- PSYC 137 - Stress Management

Total Units 29

Students will receive 2 units of credit for KINS 194D.

General Education Requirements

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<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
</tbody>
</table>
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.

**Area D: The Individual and Society (9 Units)**
- Area D Course 3
- Area D Course 3
- Area D Course - Take upper-division course to complete Area & upper division requirements.

**Area E: Understanding Personal Development (3 Units)**
- Area E Course 3

**Area F: Ethnic Studies (3 Units)**
- Area F Course 3

**Total Units** 45

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Required in Major; also satisfies GE.

**Program Description**

The Bachelor of Science degree in Kinesiology provides students with a multi-disciplinary approach to the study of human movement, a strong foundation in the natural and social sciences, and the knowledge and skills necessary to prepare students for careers in fields such as physical education, athletic coaching, athletic administration, corporate or commercial wellness, older adult fitness, athletic training, and other physical activity related professions.

The BS in Kinesiology offers five concentrations designed to meet students' specific academic needs and career interests in the areas of Physical Education Teacher Education, Athletic Coaching Education, Athletic Administration, Physical Activity and Wellness, and Athletic Care.

The Physical Activity and Wellness Concentration provides students with knowledge and practical experience in supporting careers in areas such as personal training, fitness center management, commercial and corporate wellness, and older adult fitness. It will also prepare students for advanced studies in sport and exercise psychology or other physical activity related programs.

**Note:** Additional units may be required to meet the Sacramento State foreign language requirement.

**Minimum Grade Requirement**

All courses listed must be completed with a grade of "C" or better.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 25</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 26</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>KINS 101</td>
<td>Kinesiology: Research and Practice</td>
<td>2</td>
</tr>
<tr>
<td>KINS 134</td>
<td>History and Philosophy of Physical Education and Sport</td>
<td>3</td>
</tr>
<tr>
<td>KINS 137</td>
<td>Sociology Of Sport</td>
<td>3</td>
</tr>
<tr>
<td>KINS 138</td>
<td>Sport Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>KINS 150</td>
<td>Exercise and Sport Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KINS 151D</td>
<td>Applied Kinesiology and Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KINS 158</td>
<td>Motor Learning and Control</td>
<td>3</td>
</tr>
<tr>
<td>KINS 160</td>
<td>Sport and Exercise Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Concentration Requirements (28-29 Units)**

Select one of the following five areas of concentration:
- Athletic Administration
- Athletic Care
- Athletic Coaching Education
- Physical Activity and Wellness
- Physical Education Teacher Education

**BS in Kinesiology (Physical Activity and Wellness)**

Units required for Major: 59-60
Total units required for BS: 120

**Concentration in Physical Activity and Wellness**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINS 99</td>
<td>Exercise for Healthy Living</td>
<td>2</td>
</tr>
</tbody>
</table>
### Electives (12 Units)

Select four or more of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINS 110</td>
<td>Women and Sport</td>
</tr>
<tr>
<td>KINS 121</td>
<td>Peak Performance Through Psychological Skills</td>
</tr>
<tr>
<td>KINS 122B</td>
<td>Cardiopulmonary Resuscitation</td>
</tr>
<tr>
<td>KINS 144</td>
<td>Analysis of Weight Training &amp; Muscular Fitness</td>
</tr>
<tr>
<td>KINS 152B</td>
<td>Exercise Physiology of Women</td>
</tr>
<tr>
<td>KINS 152C</td>
<td>Prolonged Exercise</td>
</tr>
<tr>
<td>KINS 156</td>
<td>Care Of Athletic Injuries</td>
</tr>
<tr>
<td>KINS 165</td>
<td>Theory of Coaching</td>
</tr>
<tr>
<td>KINS 166</td>
<td>Ethics, Inclusion and Equity in Coaching</td>
</tr>
<tr>
<td>GERO 100</td>
<td>Aging Issues in Contemporary America</td>
</tr>
<tr>
<td>GERO 121</td>
<td>Strategies for Optimal Aging</td>
</tr>
<tr>
<td>GERO 122</td>
<td>Interprofessional Approaches to Health care in Older Adults</td>
</tr>
<tr>
<td>NUFD 10</td>
<td>Nutrition And Wellness</td>
</tr>
<tr>
<td>NUFD 113</td>
<td>Nutrition And Metabolism</td>
</tr>
<tr>
<td>NUFD 120</td>
<td>Practical Application in Sports Nutrition</td>
</tr>
<tr>
<td>PSYC 137</td>
<td>Stress Management</td>
</tr>
</tbody>
</table>

**Total Units: 28**

### General Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
</table>

#### Area A: Basic Subjects (9 Units)

- **A1** - Oral Communication: 3 units
- **A2** - Written Communication: 3 units
- **A3** - Critical Thinking: 3 units

#### Area B: Physical Universe and Its Life Forms (9 Units)

- **B1** - Physical Science: 3 units
- **B2** - Life Forms: 3 units
- **B3** - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5): 0 units

#### Area C: Arts and Humanities (12 Units)

- **C1** - Arts: 3 units
- **C2** - Humanities: 3 units
- **C1/C2** - Area C Course: 3 units

#### Area D: The Individual and Society (9 Units)

- **Area D Course**: 3 units
- **Area D Course** - Take upper-division course to complete Area & upper division requirements: 3 units

#### Area E: Understanding Personal Development (3 Units)

- **Area E Course**: 3 units

#### Area F: Ethnic Studies (3 Units)

- **Area F Course**: 3 units

**Total Units: 45**

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Required in Major; also satisfies GE.

### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
</table>

#### Graduation Requirements (required by CSU) (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Graduation Requirements (required by Sacramento State) (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>E2</td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td>E3</td>
<td>Foreign Language Proficiency Requirement (Code)</td>
<td>6</td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Required in Major; also satisfies Graduation Requirement.

3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required:"

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

### BS in Kinesiology (Physical Education)

**Units required for Major: 59-60**

**Total units required for BS: 120**

### Program Description

The Bachelor of Science degree in Kinesiology provides students with a multi-disciplinary approach to the study of human movement, a strong foundation in the natural and social sciences, and the knowledge and skills necessary to prepare students for careers in fields such as physical education, athletic coaching, athletic administration, corporate or commercial wellness, older adult fitness, athletic training, and other physical activity related professions.
The BS in Kinesiology offers five concentrations designed to meet students’ specific academic needs and career interests in the areas of Physical Education Teacher Education, Athletic Coaching Education, Athletic Administration, Physical Activity and Wellness, and Athletic Care.

The **Physical Education Teacher Education** concentration is designed to prepare students for a teaching career in physical education. This is a subject matter approved program through the California Commission on Teacher Credentialing (CCTC). Students who complete the program in physical education will have the breadth and depth of knowledge regarding developmentally appropriate physical education and will take coursework for both subject matter content and pedagogy for teaching physical education at the K-12 level. Students who choose this option will then have the opportunity to attain their Single Subject Physical Education California Teaching Credential, an additional two semester program through the Department of Teacher Education at Sacramento State.

**Note:** Additional units may be required to meet the Sacramento State foreign language requirement.

### Minimum Grade Requirement
All courses listed must be completed with a grade of "C" or better.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Lower Division (8 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 25</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 26</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Required Upper Division (23 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>KINS 101</td>
<td>Kinesiology: Research and Practice</td>
<td>2</td>
</tr>
<tr>
<td>KINS 134</td>
<td>History and Philosophy of Physical Education and Sport</td>
<td>3</td>
</tr>
<tr>
<td>KINS 137</td>
<td>Sociology Of Sport</td>
<td>3</td>
</tr>
<tr>
<td>KINS 138</td>
<td>Sport Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>KINS 150</td>
<td>Exercise and Sport Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KINS 151D</td>
<td>Applied Kinesiology and Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KINS 158</td>
<td>Motor Learning and Control</td>
<td>3</td>
</tr>
<tr>
<td>KINS 160</td>
<td>Sport and Exercise Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Concentration Requirements (28-29 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following five areas of concentration:</td>
<td>28-29</td>
</tr>
<tr>
<td></td>
<td>Athletic Care</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Athletic Coaching Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Activity and Wellness</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Education Teacher Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Athletic Administration</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>59-60</td>
</tr>
</tbody>
</table>

### Concentration in Physical Education Teacher Education (29 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINS 130</td>
<td>Elementary Physical Education Curriculum and Content</td>
<td>3</td>
</tr>
</tbody>
</table>

### General Education Requirements

<table>
<thead>
<tr>
<th>Area A: Basic Subjects (9 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 - Oral Communication</td>
</tr>
<tr>
<td>A2 - Written Communication</td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area B: Physical Universe and Its Life Forms (9 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 - Physical Science</td>
</tr>
<tr>
<td>B2 - Life Forms</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area C: Arts and Humanities (12 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1 - Arts</td>
</tr>
<tr>
<td>C2 - Humanities</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area D: The Individual and Society (9 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area D Course</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area E: Understanding Personal Development (3 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area E Course</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area F: Ethnic Studies (3 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area F Course</td>
</tr>
</tbody>
</table>

| Total Units                       | 45    |

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

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2. Required in Major; also satisfies GE.
Certificate in Personal Trainer Strength and Conditioning

Units required for Certificate: 28

Program Description
Kinesiology is an academic area of study concerned with the art and science of human movement.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACS 113</td>
<td>Strength and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>KINS 120</td>
<td>Planning, Designing and Managing a Fitness Center</td>
<td>3</td>
</tr>
<tr>
<td>KINS 132</td>
<td>Sociology Of Sport</td>
<td>3</td>
</tr>
<tr>
<td>or KINS 160</td>
<td>Sport and Exercise Psychology</td>
<td></td>
</tr>
<tr>
<td>KINS 137</td>
<td>Analysis of Weight Training &amp; Muscular Fitness</td>
<td>2</td>
</tr>
<tr>
<td>KINS 151</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINS 152</td>
<td>Physiology Of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINS 153</td>
<td>Cardiovascular Testing and Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KINS 156</td>
<td>Care Of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>KINS 194A</td>
<td>Assigned Field Experience in Kinesiology</td>
<td>2</td>
</tr>
<tr>
<td>or KINS 195A</td>
<td>Directed Field Experience in Kinesiology</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 28

Credential in Adapted Physical Education Specialist

Units required for Credential: 21

Program Description
The Credential in Adapted Physical Education Specialist is intended that the courses in this specialty be taken in addition to or concurrent with the courses required for the Single Subject Teaching Credential in Physical Education.

Prerequisite Requirements
For students who are not Physical Education Teaching Concentration Majors

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 22</td>
<td>Introductory Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>PUBH 136</td>
<td>School Health Education</td>
<td>2</td>
</tr>
<tr>
<td>KINS 130</td>
<td>Elementary Physical Education Curriculum and Content</td>
<td>3</td>
</tr>
<tr>
<td>or KINS 172</td>
<td>Movement Education</td>
<td></td>
</tr>
<tr>
<td>KINS 151</td>
<td>Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINS 151D</td>
<td>Applied Kinesiology and Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KINS 158</td>
<td>Motor Learning and Control</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSP 230</td>
<td>Positive Behavior and Social Supports for Students with Mild to Moderate Support Needs</td>
<td>3</td>
</tr>
<tr>
<td>EDSP 230B</td>
<td>Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges Lab</td>
<td>1</td>
</tr>
<tr>
<td>KINS 171</td>
<td>Adapted Physical Education: Basic Skill/Fitness Activities and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>KINS 176</td>
<td>Perceptual Motor Development</td>
<td>3</td>
</tr>
<tr>
<td>KINS 177</td>
<td>Introduction to Adapted Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KINS 179</td>
<td>Adapted Physical Education: Program Planning</td>
<td>3</td>
</tr>
<tr>
<td>KINS 194E</td>
<td>Assigned Internship in Adapted Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 118</td>
<td>Recreation Therapy Facilitation Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 22

Minor in Coaching

Units required for Minor: 19-20

Program Description
Kinesiology is an academic area of study concerned with the art and science of human movement.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINS 150</td>
<td>Exercise and Sport Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KINS 156</td>
<td>Care Of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>KINS 110</td>
<td>Women and Sport</td>
<td>3</td>
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</tbody>
</table>

Total Units: 28
Minor in Supplementary Authorization in Physical Education

Units required for Minor: 18

Program Description
This minor will fulfill the California Commission on Teacher Credentialing requirements for a supplementary authorization to teach Introductory Physical Education, K-9.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINS 138</td>
<td>Sport Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>KINS 142</td>
<td>Professional Activities II - Creative Movement and Dance</td>
<td>3</td>
</tr>
<tr>
<td>KINS 172</td>
<td>Movement Education</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>KINS 145</td>
<td>Pro Act III - Team Sports</td>
<td></td>
</tr>
<tr>
<td>KINS 150</td>
<td>Exercise and Sport Physiology</td>
<td></td>
</tr>
<tr>
<td>KINS 176</td>
<td>Perceptual Motor Development</td>
<td></td>
</tr>
<tr>
<td>KINS 177</td>
<td>Introduction to Adapted Physical Education</td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>5-6</td>
<td></td>
</tr>
<tr>
<td>KINS 141</td>
<td>PRO ACT I - Dual Sports</td>
<td></td>
</tr>
<tr>
<td>KINS 144</td>
<td>Analysis of Weight Training &amp; Muscular Fitness</td>
<td></td>
</tr>
<tr>
<td>KINS 146</td>
<td>PRO ACT IV Individual Sports</td>
<td></td>
</tr>
<tr>
<td>KINS 148</td>
<td>ProAct V - Nontraditional Games and Sports</td>
<td></td>
</tr>
<tr>
<td>KINS 149</td>
<td>Professional Activities of Health and Skill Related Fitness</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>2-3</td>
<td></td>
</tr>
<tr>
<td>KINS 131</td>
<td>Secondary Physical Education Curriculum</td>
<td></td>
</tr>
<tr>
<td>KINS 134</td>
<td>History and Philosophy of Physical Education and Sport</td>
<td></td>
</tr>
<tr>
<td>KINS 135</td>
<td>Assessment Strategies in Physical Education</td>
<td></td>
</tr>
<tr>
<td>KINS 137</td>
<td>Sociology Of Sport</td>
<td></td>
</tr>
<tr>
<td>KINS 160</td>
<td>Sport and Exercise Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 19-21

Note: Substitutions can be made with permission of Department Chair.

MS in Kinesiology (Exercise Science)

Total units required for the MS: 30, including 15 units for concentrations (see below).

Program Description
The graduate program leading to the Master of Science degree in Kinesiology is designed to expand the students’ knowledge and to augment their qualifications for leadership in their chosen profession.

The objectives of the program are to increase the students’ breadth and depth of knowledge relative to the discipline of Kinesiology; to provide the opportunity for students to engage in scholarly activity that includes creative and analytical thinking, interpreting, evaluating and reporting published research, designing and conducting research; and to provide a focus of study that will enhance career commitment and allow for experiences that will lead to continued self-development and growth.

Admission Requirements
For students with an undergraduate major in Kinesiology, admission to the MS program as a classified graduate student requires:

- an overall GPA of 2.8 or 3.0 in the last 60 semester and 90 quarter units; and
- a statistics course (e.g., STAT 1 or equivalent).
- GRE scores;
- a statement outlining academic and professional goals related to graduate study in Kinesiology, including a selection of 2 faculty members with whom the student would like to study;
- a recent writing sample (e.g., research paper, creative project)
- 3 letters of recommendation that speak specifically to academic ability.
- passing score on the CSCS/NSCA exam (Strength and Conditioning Option students only)

Students who have deficiencies in admission requirements which can be removed by specific additional preparation may be admitted to unclassified or conditionally classified graduate status for the purpose of removing deficiencies. Coursework taken to qualify for classified graduate status is in addition to and not counted toward the master’s program. While completing admission deficiencies, students may, if they possess the necessary prerequisites, enroll also in degree coursework, but no more than 6 units as an unclassified student or 12 units as a conditionally classified student can be applied toward the MS degree. Students must remove all admission deficiencies before being considered for classified status.

Students applying for admission to the Kinesiology graduate program who do not have a degree in Kinesiology, are required to take a minimum of 20 specified units in Kinesiology. These students should see the graduate coordinator or a graduate advisor for details.

Admission Procedures
Applications are accepted for Fall admission only. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center, Room 215 (916) 278-6470:
an online application for admission;
- two sets of official transcripts from all colleges and universities attended, other than Sacramento State; and
- GRE scores
- writing sample
- three letters of recommendation
- evidence of passing score on the CSCS/NSCA exam (Strength and Conditioning Option students only)

For more admissions information and application deadlines please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

Following closure of the application period, faculty will review the applicant pool, and will make a recommendation to either admit, place on the waitlist, or deny admission. The review process will take approximately four weeks. Once a decision is made, the applicant will be notified by the Office of Graduate Studies. Students who earn a place on the waitlist will be notified by the Office of Graduate Studies if their admission status changes.

Note: A 15-unit core of courses is required of all students; 11 units of required courses and four units that are earned through the completion of a thesis or project. The thesis or project is required of all candidates for the Master of Science in Kinesiology. The courses in the core are designed to focus on an advanced study of the knowledge which is of common interest and concern to all graduate students pursuing a degree in Kinesiology. Within the remaining 15 units, the student is focused in an area of special interest by selecting a concentration: Exercise Science or Movement Studies. Each concentration includes a set of required courses and a specified number of elective units.

Note: Six semester units of graduate work taken at other accredited institutions may be approved by the Graduate Coordinator or the student’s graduate advisor. Prerequisite units, units taken for undergraduate majors/minors, and units taken to qualify for fully classified graduate status, will not be counted for graduate credit. Only rarely are undergraduate Kinesiology courses approved for graduate credit. A maximum of six elective units may be taken in upper division undergraduate courses with advisor approval. A maximum of four units of graduate Practicum or Directed Individual Study may be taken for degree credit with advisor approval.

Minimum Units and Grade Requirements for the Degree

Units required for the MS: 30, including 15 units for concentrations (see below).

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. The procedure may begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses with a minimum 3.0 GPA; and
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

This application must be filed no later than the semester prior to enrolling in KINS 211. Advancement to Candidacy forms are available on the Office of Graduate Studies website. See the Department’s graduate coordinator for more information about this process.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINS 209</td>
<td>Graduate Studies in Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINS 210</td>
<td>Research Methods in Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINS 211</td>
<td>Research Seminar</td>
<td>1</td>
</tr>
<tr>
<td>KINS 294A</td>
<td>Contemporary Topics in Sport Performance</td>
<td>4</td>
</tr>
<tr>
<td>KINS 500</td>
<td>Culminating Experience</td>
<td>4</td>
</tr>
<tr>
<td><strong>Concentrations</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Select one of the following concentrations:

- Exercise Science Concentration
- Exercise Science/Strength Conditioning Option
- Movement Studies Concentration
- Movement Studies/Sports Psychology Option
- Movement Studies/Sport Pedagogy Option

**Total Units**: 30

1. KINS 294A may be taken for 1 unit each time, for a total of 4 units in 4 different topical areas.
2. The first time the student registers for KINS 500, he/she must also register for KINS 211. During this semester, students will have to formally choose their culminating experience: a thesis or comprehensive exam option. Student’s planning on completing a thesis will develop their culminating project (thesis) with assistance from others in the seminar, the seminar professor and the student’s committee. When the culminating proposal is completed, formal presentations are made to the seminar with the student’s committee in attendance. If the student does not complete the culminating project proposal and have it approved, they must enroll and attend KINS 211 another semester. Students choosing to complete a comprehensive exam, rather than a thesis, will not be subject to the same conditions regarding the formal culminating project proposal requiring approval in KINS 211.

### Exercise Science Concentration (15 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINS 250</td>
<td>Advanced Exercise Physiology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>KINS 252</td>
<td>Advanced Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KINS 254</td>
<td>Advanced Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KINS 259</td>
<td>Research in Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Select 3 units of electives in consultation with an advisor</strong></td>
<td><strong>3</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**: 15

### Exercise Science/Strength Conditioning Option (15 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINS 250</td>
<td>Advanced Exercise Physiology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>or KINS 252</td>
<td>Advanced Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>or KINS 259</td>
<td>Research in Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KINS 203</td>
<td>Specificity of Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>KINS 295</td>
<td>Practicum</td>
<td>3</td>
</tr>
<tr>
<td>KINS 254</td>
<td>Advanced Biomechanics</td>
<td>3</td>
</tr>
</tbody>
</table>
Select 3 units of electives in consultation with an advisor 3

Total Units 15

Single Subject Credential in Physical Education K-12

Program Description

Blended Credential Option students must formally apply to the Teacher Preparation Program for acceptance into the credential option. A separate application and requirements are required for admission to the student teaching phase. Consult a Physical Education Concentration Advisor for details.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTE 471A</td>
<td></td>
<td></td>
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<tr>
<td>EDTE 471B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINS 198A</td>
<td>Seminar in Physical Education - Elementary</td>
<td>2</td>
</tr>
<tr>
<td>KINS 198B</td>
<td>Seminar in Physical Education - Secondary</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units 3

Note: The following must be attained before student teaching can begin:
- Standard First Aid Certification;
- Current CPR Certification; and
- Receive passing scores on the California Basic Educational Skills Test (CBEST).

Subject Matter Program Athletic Training

Program Description

Athletic Training students interested in teaching must meet the Commission on Teacher Credentialing standards prior to entrance into a credential program. Courses to meet standards can be taken concurrently with the Athletic Training courses.

Program Requirements

Note: The program is currently under review by the Commission on Teacher Credentialing and students are strongly encouraged to consult the Program Director for appropriate coursework.

Nursing

College of Health and Human Services

School of Nursing Mission and Vision

The School of Nursing (SON) prepares nurses to lead diverse individuals, families, and communities in achieving optimal health through nursing science, collaborative practice, advocacy, and service.

The School of Nursing transforms health care through innovative nursing education, community partnerships, and policy engagement. We believe that the SON serves its students and the society at large by creating an environment in which faculty and students pursue the knowledge of nursing practice guided by the following core values:
- caring;
- integrity;
- advocacy;
- collaboration;
- inclusion;
- equity; and
- leadership.

Degree Programs

BS in Nursing (Pre-Licensure) (p. 732)
LVN 30 Unit Option Non-Degree Program (p. 737)
MS in Nursing (p. 736) (includes ADN with degree - MSN option)
RN-BSN and ADN-BSN Collaborative Tracks (http://catalog.csus.edu/colleges/health-human-services/nursing/rn-bsn-and-adn-bsn-collaborative-tracks/)
School Nurse Credential (p. 737)
Special Teaching Authorization in Health (STAH) (p. 738)

Programs Descriptions

The baccalaureate program consists of a four-year curriculum of lower and upper division coursework. There are two (2) years of General Education including prerequisites and two (2) years of clinical nursing. The time to complete the prerequisites may increase the time to complete the degree. The Nursing program content prepares competent professional practitioners of nursing who will help meet the changing health care needs of society.

The School of Nursing offers two pathways for students who start their nursing education in a non-baccalaureate program to earn a bachelor’s degree (BSN). These pathways are: an RN-BSN Traditional 15-Week Semester track and an Associates Degree in Nursing (ADN) to BSN Collaborative track. Both tracks are designed to be completed in 12-15 months if attending full-time; the RN-BSN track has a part-time attendance option. Scheduling of program offerings and hybrid (mainly online) classes provides maximum flexibility and the opportunity for self-directed study.

The Master of Science in Nursing (MSN) is designed to prepare registered nurses with baccalaureate degrees for roles in nursing education, community, adult clinical roles, and credentialed school nurses. Nurses with an ADN and a non-nursing bachelors degree may enter the program after completing two (2) bridge courses offered in a 6-week summer session. The MSN curriculum emphasizes the systematic study of professional nursing practice and preparation for leadership roles. The program is designed for nurses who want, or are require, to earn graduate preparations to qualify for positions of greater responsibility and complexity. Scheduling of program offerings and hybrid (mostly online) classes provides maximum flexibility and the opportunity for self-directed study.

Accreditation

California State University, Sacramento is fully accredited by the Western Association of Schools and Colleges (WASC).

The baccalaureate degree in nursing program and master’s degree in nursing program at California State University, Sacramento are
Special Features

- The specific purposes of the baccalaureate program are to: 1) provide a program of study which includes the developing theory and practices of nursing leading to a Bachelor of Science degree with a major in Nursing, 2) prepare a generalist in nursing practice who is able to utilize the nursing process to meet the health care needs of the community, and 3) provide the student with a base for graduate study.

- In the baccalaureate program, students are provided with a variety of learning experiences both on and off campus. Examples of clinical facilities used in the Sacramento and surrounding areas include acute care hospitals, skilled nursing and extended care facilities, outpatient clinics, schools, and community health and social service agencies.

- Admission to ADN to BSN Collaborative track is restricted to students currently in good standing and actively enrolled in one of four community college nursing programs; American River, Sacramento City, Sierra College, and Yuba College. Pre-requisite courses must be met prior to admission.

- ADN students with a non-nursing bachelor’s degree interested in the MSN program apply to the MSN program through the Office of Graduate Studies and complete two (2) bridge courses (NURS 180 & NURS 181) through the College of Continuing Education before starting the program. NURS 180 & NURS 181 are offered in the first 6-week summer session.

- Students are encouraged to participate in the California Nursing Students’ Association (CNSA) as they pursue their academic studies. In their fourth semester of clinical nursing coursework, students are eligible for membership in Zeta Eta, the local chapter of Sigma Theta Tau, International Honor Society for Nursing.

- The Sacramento State program in professional nursing is approved by the California State Board of Registered Nursing. The baccalaureate degree in nursing program and the master’s degree in nursing program at California State University, Sacramento are accredited by the Commission on Collegiate Nursing Education (http://www.ccneaccreditation.org).

- The student satisfactorily completing the baccalaureate program is awarded a Bachelor of Science degree in Nursing (BSN) and is eligible to apply for licensure by the California Board of Registered Nursing. Graduates are also eligible to apply for a Public Health Certificate. For the RN-BSN and the ADN to BSN Collaborative students, there is a clinical elective course which, along with community health theory, allows the student to apply to the California Board of Registered Nursing for a Public Health Nursing certificate.

- Graduation from programs leading to licensure, credentialing, or certification eligibility does not guarantee that students will obtain a license, credential, or certification. Licensure, credentialing, or certification requirements are set by agencies that are not controlled by, or affiliated with, the California State University and licensure and certification requirements can change at any time.

Notice to Students RE: Professional Licensure and Certification

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Students are responsible for determining whether they can meet licensure, credentialing, or certification requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure, credentialing, or certification requirements. Information concerning licensure, credentialing, or certification requirements are available from Teri Lyn Fretz, Office Manager, at 916/278-6714 or fretz@csus.edu. Mailing address: 6000 J Street, Sacramento, CA 95819-6096. Physical address: 7667 Folsom Boulevard, Sacramento, CA 95826.

Career Possibilities

Registered Nurse (RN, BSN or RN, MSN): Hospital, e.g., Medical, Surgical, Emergency Room, Operating Room, Pediatrics, Obstetrics, Mental Health, Critical Care, Oncology, Rehabilitation · Community Health · Home Health · Extended Care · Physician’s Office · Clinics and Industry · Advanced Practice (MS) roles: Educator · Nurse Administrator · School Nurse · Advanced Clinical Role

Contact Information

Tanya K. Altmann, PhD, RN, School of Nursing Chair
Tori Lyn Fretz, Administrative Analyst · Specialist
Folsom Hall
(916) 278-6714
School of Nursing Website (http://www.csus.edu/hhs/nrs/)

Faculty

ALTMANN, TANYA
BLACKBURN, SAMANTHA
BRADY, DEBRA
CAMARENA, CHRISTIE
DANG, MICHELLE
FIELDS, BRONWYN
FINN-ROMERO, DEBORAH
HILL, RACHEL
LANDERS, STEPHANIE
MOUNTAIN, CAREL
MUNK, KIRSTEN
NURS 9.  Reasoning and Critical Thinking on Health Topics.  3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring, Summer

Provides students with an introduction to critical thinking and reasoning in evaluating societal issues related to health. Students will examine sources of health information, including mass and social media, and critically examine fact versus fiction. Emphasizes logical steps in problem-solving, decision-making, reasoning, and the construction of arguments about health problems and promotion. The study of critical thinking will be supplemented with readings, discussions, collaboration, presentations, dialogues, and written assignments around the topic of health.

NURS 10.  Health Care: Issues and Delivery Systems.  3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Explores the relationships between social, political and economic systems, and the health care and delivery systems currently operational in the U.S. today. Provides a format to debate current biomedical issues and explores crosscultural health practices. Lecture three hours.

NURS 14.  Pharmacology.  2 Units
Prerequisite(s): Entry level physiology course, such as BIO 25 or BIO 26
Term Typically Offered: Fall, Spring

Basic principles of pharmacology with a focus on pharmacokinetics, pharmacodynamics and related therapeutic implications for major drug categories. May be taken by pre-nursing or non-nursing students. Lecture two hours.

NURS 21.  First Year Seminar: Becoming an Educated Person.  3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

A first-year seminar intended to provide students with an introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. This course is designed to help students develop academic success strategies, and to improve information literacy, intercultural competence, and integrative thinking. The seminar also provides students with the opportunity to interact with fellow students, and seminar faculty to build a community of academic and personal support.
NURS 119. Mental Health Nursing for the LVN 30-Unit Option. 4 Units
Prerequisite(s): Microbiology with a lab, Physiology with a lab, and California licensure as a Vocational Nurse.
Corequisite(s): NURS 123.
Term Typically Offered: Fall, Spring

Theoretical basis for the nursing care of individuals who require nursing intervention to achieve and maintain mental health through adaptive processes. The course includes a supervised practicum which incorporates therapeutic modalities. A variety of psychodynamic theories related to anxiety, interpersonal relationships, crisis intervention, and group process are discussed.

NURS 120. Nursing Application of Research and Critical Analysis. 3 Units
Prerequisite(s): NURS 111, NURS 112, NURS 113 or instructor permission. GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Evaluation and application of research to nursing practice. Emphasis is placed on application of evidence to improve quality and safety in healthcare and advance nursing practice. Develop an understanding of the human sciences and diverse cultures through the lens of nursing practice. Application of a critical framework of sociocultural, historical, and economic perspectives to analyze scholarly inquiry of health and healthcare.

NURS 123. Nursing Families in Complex Illness. 6 Units
Prerequisite(s): NURS 111, NURS 112 and NURS 113; or instructor permission.
Term Typically Offered: Fall, Spring

Provides students with the opportunity to learn and apply nursing concepts through the care of individuals and families experiencing complex illness across the adult lifespan. The focus is on skill development and the synthesis of data from multiple sources to formulate nursing interventions. Lecture three hours; laboratory six-eight hours.

Note: This course require safety training and personal protective equipment (PPE).

NURS 129. Mental Health Nursing. 5 Units
Prerequisite(s): NURS 111, NURS 112 and NURS 113; or instructor permission.
Term Typically Offered: Fall, Spring

Provides an overview of multidimensional factors, perspectives, and approaches associated with mental health across the lifespan. Mental health concepts and interventions are applied across multiple settings. Lecture three hours; laboratory six-eight hours.

Note: This course require safety training.

NURS 133. Leadership and Management for the LVN to RN. 2 Units
Prerequisite(s): Microbiology with a lab; Physiology with a lab; NURS 119 and NURS 123
Corequisite(s): NURS 137 and NURS 138
Term Typically Offered: Fall, Spring

This course is designed to present leadership and management skills for the Licensed Vocational Nurse transitioning to the Registered Nurse role. The principle and processes of administration, management, and supervision will be discussed within an organizational framework. Lecture two hours.

NURS 136. Nursing Laboratory for the Childbearing Family. 1 Unit
Prerequisite(s): NURS 120, NURS 123 and NURS 129, or instructor permission
Corequisite(s): NURS 137
Term Typically Offered: Fall, Spring

Application of skills and assessment in the care of the childbearing family and women experiencing reproductive health changes across the lifespan.

Credit/No Credit

NURS 137. Nursing the Childbearing Family. 5 Units
Prerequisite(s): NURS 120, NURS 123 and NURS 129 or instructor permission.
Corequisite(s): NURS 136.
Term Typically Offered: Fall, Spring

Application of nursing concepts in the care of the childbearing family and women experiencing reproductive health changes across the lifespan.

Note: This course require safety training and personal protective equipment (PPE).

NURS 138. Nursing the Childrearing Family. 5 Units
Prerequisite(s): NURS 120, NURS 123, NURS 129, or instructor permission
Corequisite(s): NURS 139
Term Typically Offered: Fall, Spring

Introduction and application of nursing concepts in meeting health needs of the child from birth through adolescence. Emphasis is placed on health promotion and disease management within the context of the family and applied across multiple settings. Lecture three hours; laboratory six-eight hours.

NURS 139. Nursing Laboratory for the Childrearing Family. 1 Unit
Prerequisite(s): NURS 120, NURS 123, NURS 129, or instructor permission
Corequisite(s): NURS 138
Term Typically Offered: Fall, Spring

Acquisition of knowledge and practice using tools and techniques for assessing the child and the family in a variety of settings. Laboratory three hours.

Note: May be repeated for credit

Credit/No Credit
NURS 143. Leadership and Management in Nursing Practice. 3 Units
Prerequisite(s): NURS 136, NURS 137, NURS 138, and NURS 139, or instructor permission.
Term Typically Offered: Fall, Spring

Integration of leadership and management principles to promote health across the lifespan and care settings. Application of leadership and management principles in the examination of organizational structures, processes, and approaches to quality and safety concepts in health care systems and practice environments. Emphasis will be placed on career development and transition to professional practice.

Note: May be repeated for credit. Lecture three hours.

NURS 144. Community Health Nursing. 5 Units
Prerequisite(s): NURS 136, NURS 137, NURS 138, and NURS 139, or instructor permission.
Term Typically Offered: Fall, Spring

Contemporary role of the community health nurse is presented within a public health framework, emphasizing the concept of community as client. Presents nursing interventions related to groups and aggregates identified as high risk for the development of health problems. Clinical experience is provided across community settings. Lecture and clinical hours.

NURS 145. Clinical Leadership and Professional Role Development. 6 Units
Prerequisite(s): NURS 136, NURS 137, NURS 138, NURS 139 or instructor permission.
Corequisite(s): NURS 144.
Term Typically Offered: Fall, Spring

The purpose of this culminating senior practicum is to facilitate the transition of the nursing student into the role of a professional BSN graduate nurse. The course will integrate the theoretical and clinical nursing concepts acquired throughout the curriculum into a precepted senior practicum. Students will apply principles of clinical nursing, nursing management and nursing leadership in a selected clinical setting. Credit/No Credit

NURS 146. Human Sexuality. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Designed to explore the physiological, sociological, and psychological components of human sexuality in a sufficiently detailed manner to dispel the myths and confusion enveloping this sensitive subject. Students will be able to integrate these components in a meaningful pattern into their own lives, be better able to understand and accept their own sexual needs and behavior, and be more accepting and understanding of persons whose sexual attitudes and behavior might from their own.

NURS 165. Hospice and Palliative Nursing Care. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity
Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring, Summer

Evaluation of the role of the nurse in providing family-centered care throughout the death and dying process within a historical and cultural context. Exploration of differences in organizational models to end-of-life care, including hospice and palliative care. Integration of nursing care into unique cultural values and beliefs. Examination of significant aspects of cultural and social differences in death and dying.

NURS 167. Women’s Health. 3 Units
Term Typically Offered: Fall, Spring

Designed for people seeking knowledge about women’s health, women’s health risks, and the delivery of traditional and non-traditional medical interventions for the maintenance of health and management of illness. Covers the physiological and psychological components of women’s health. The leading acute and chronic illnesses which affect women are introduced. Discussions include: means of sustaining a wellness lifestyle; identification, management and consultation for acute and chronic illness; normal physiological life changes and adaptations to aging; mind/body connection in the control of health and illness; pharmacology and drug therapy for women; health management for infants and children; access and control of care for women in traditional and non-traditional health settings; and research in women’s health. Lecture-discussion three hours.

NURS 168. The Brain and Gender-Related Differences. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Gender-related differences which are mediated by the brain are examined from the theoretical framework of evolution. The place of molecular genetics, hormone physiology, neural function, biomedical research, human development, personality theory and research, and crosscultural research are studied in an attempt to understand the processes that affect sex differences. Gender-related differences in normal and abnormal behavior resulting from chronic and acute disease, and pathological states, will be introduced. The student should acquire the fundamentals of a scientific understanding of gender-related differences between humans, and an appreciation of the unique role the brain plays in the mediation of these differences.

NURS 170. Foundations for Evidence-Based Nursing Practice. 3 Units
Prerequisite(s): Acceptance into the RN to BSN Program or instructor permission.
Term Typically Offered: Fall, Spring

This course provides an overview of nursing research and application to practice. Students will identify components of evidence-based practice and develop skills in critiquing research and in professional writing.

NURS 171. Transitional Concepts: The Baccalaureate Nurse. 6 Units
Prerequisite(s): NURS 170, may be taken concurrently.
Term Typically Offered: Fall, Spring

This course expands students’ knowledge of theories, concepts, and social issues which have implications for nursing practice. Assignments and experiences are designed to transition the RN to the baccalaureate level of proficiency.

NURS 171A. Transitional Concepts: The Baccalaureate Nurse Role. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently.
This course expands students’ knowledge of theories, concepts, and social issues which have implications for the role of the nurse in any professional setting. Assignments and experiences are designed to transition the RN to the baccalaureate level of proficiency.

NURS 171B. Transitional Concepts: The Client Lifespan. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently.
This course expands students’ knowledge of theories, concepts, and social issues which have implications for health across the lifespan. Assignments and experiences are designed to transition the RN to the baccalaureate level of proficiency.
NURS 173. Theoretical Foundations for Leadership and Management. 6 Units
Prerequisite(s): NURS 170, may be taken concurrently.
Term Typically Offered: Fall, Spring

This course provides the theoretical foundations for leadership and management across multiple settings. Theories related to the principles and processes of leadership and management will be applied to select practice experiences.

NURS 173A. Theoretical Foundations for Leadership. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently
This course provides the theoretical foundations for leadership across multiple settings. Theories related to the principles and processes of leadership will be applied to select practice experiences.

NURS 173B. Theoretical Foundations for Management. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently
This course provides the theoretical foundations for management across multiple settings. Theories related to the principles and processes of management will be applied to select practice experiences.

NURS 174. Community Health Nursing: Concepts and Practice. 4 Units
Prerequisite(s): NURS 170, may be taken concurrently.
Term Typically Offered: Fall, Spring

This course presents the role of the community health nurse within a public health framework and examines public health systems, policies, and socioecological factors that shape the health of individuals, groups, and communities. Students will be introduced to principles of population health, epidemiology, disease prevention, and health promotion, to plan community health nursing interventions.

NURS 174C. Community Health Nursing: Clinical Elective. 2 Units
Prerequisite(s): NURS 170, NURS 174, both may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

In this course students will integrate and apply knowledge of population-based nursing and evaluate the role of the community health nurse in various systems. Students will provide care to individuals, families, or communities within a public health framework. This course meets the California BRN clinical requirements for the Public Health Nurse Certificate.

Note: NURS 174C is an elective course that is only required for students wishing to apply for the California Board of Registered Nursing Public Health Nurse Certificate; students not planning to apply for a Public Health Nurse Certificate must petition for an exemption from this clinical course; students who are granted exemption for NURS 174C will only complete 44 units.

NURS 178. Culminating Project. 3 Units
Prerequisite(s): Completion of 19 units in the program or instructor permission.
Term Typically Offered: Fall, Spring

Students will apply leadership and management principles within a community to determine a defined need or issue, identify goals to meet or solve the issue, and complete the culminating project based on previous course work.

NURS 179. Professional Communication and Reasoning Development. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently; and either department permission or GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (W), Humanities (Area C2)
Term Typically Offered: Fall, Spring

This hybrid course is designed to expand communication and leadership skills among RN to BSN students in their professional practice. Students will develop an understanding of the humanities and diverse cultures through the lens of nursing practice. Specifically, students will reflect on how culture and experience determines the human condition which is reflected in their animating ideas and values towards health and healthcare.

NURS 180. Transition to Graduate Nursing Education through Writing. 2 Units
Prerequisite(s): Acceptance into the Advanced Nursing Bridge pathway or department permission.
Term Typically Offered: Spring, Summer

This course provides an introduction to the role of the nurse leader by exploring theoretical and ethical concepts, professional communication, and evidence-based practice. Students will undertake critical analysis of nursing practice and healthcare systems with a focus on professional role development.

NURS 181. Research as the Foundation for Evidence-Based Nursing Practice. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

This course provides students with a clear understanding of the interrelationship between research, theory, and evidence-based nursing practice. Interpretation of quantitative and qualitative research findings to determine statistical and clinical significance. Application of research and epidemiological concepts to improve patient and population health outcomes.

NURS 194. Work Study in Nursing. 1 - 12 Units
Prerequisite(s): NURS 120, NURS 123 and NURS129; School of Nursing faculty recommendation; Instructor permission; Minimum 2.5 GPA
Corequisite(s): Enrollment in undergraduate nursing program
Term Typically Offered: Fall, Spring

Nursing students participate in clinical nursing experiences that reflect the realities of the healthcare environment and have opportunity to master learned skills.

Note: May be repeated for credit
Credit/No Credit

NURS 195. Field Study. 1 - 6 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Guided study and experience in a specified nursing area. Credit/No Credit
NURS 199. Special Problems. 2 Units
Term Typically Offered: Fall, Spring

Individual projects and directed reading for students who are competent to assume independent work. Admission to this course requires approval of faculty member under whom the independent work is to be conducted. Credit/No Credit

NURS 209. Advanced Role Development in Nursing. 3 Units
Prerequisite(s): Admission to Graduate Program.
Term Typically Offered: Fall, Spring

Students will explore emerging issues in healthcare and consider how these issues shape their practice. Through examination of current issues and challenges confronting the nursing profession, analysis of the literature, examination of personal values, rights, and obligations, and the application of ethical decision-making processes, students’ ability to engage in ethical discussions will be enhanced, as well their ability to provide professional leadership.

Note: Satisfies the GWAR requirement.

NURS 210. Research as the Foundation for Advanced Nursing. 3 Units
Prerequisite(s): Admission to the graduate program for nursing
Term Typically Offered: Fall, Spring

Participants will explore nursing research as the foundation for clinical and organizational decision making. Content will include understanding key elements of evidence-based practice, developing skills to access data bases in nursing and healthcare, evaluation of evidence in nursing including published nursing research, problem identification within the practice setting, and incorporation of evidence in initiating change and improving clinical practice.

NURS 213. Seminar in Organizational and Systems Leadership. 3 Units
Prerequisite(s): NURS 209 and NURS 210, and 21 units of graduate coursework.
Term Typically Offered: Fall, Spring

This course requires that students operationalize knowledge, skills, and dispositions acquired in previous courses. Students will identify contemporary healthcare issues and apply graduate core competencies to guide nursing practice in the planning, implementation and evaluation of quality healthcare for individuals, families, groups and communities.

NURS 213C. Seminar in Specialized Nursing Processes: School Nursing I. 4 Units
Prerequisite(s): Admission to School Nurse Credential Program.
Term Typically Offered: Fall, Spring

Provision and application of concepts needed for nursing practice in the schools. Focuses on the three major competencies of school nursing practice: providing health and wellness services, providing direct client care services for school age children (pre-k through age 22), and professional management of school nursing services. Emphasis is on the foundations of school nursing practice, legal and ethical issues, special education services, and management of episodic illness and chronic health conditions.

NURS 213D. Seminar in Specialized Nursing Processes: School Nursing II. 4 Units
Prerequisite(s): NURS 213C.
Term Typically Offered: Fall, Spring

Provision and application of concepts needed for nursing practice in the schools. Focuses on the three major competencies of school nursing practice: providing health and wellness services, direct client care services for school age children (pre-k through age 22), and health service program coordination and management. Emphasis is on ethical issues and federal laws addressing education for students with disabilities, health promotion programs, issues of adolescent health, and behavior assessment and management including considerations for students receiving special education services.

NURS 214. Educational Program Development in Nursing. 3 Units
Prerequisite(s): NURS 209 and NURS 210 or instructor's permission.
Term Typically Offered: Fall, Spring

Introduction to curriculum development and instructional design concepts in preparation for the role of educator in an educational institution or health care setting. Emphasis will be on instructional design, instructional strategies, and measurement of learner outcomes. Lecture three hours.

Note: FOCUS alternates between K-12 and higher education.

NURS 214C. Educational Program Development in Nursing II. 3 Units
Prerequisite(s): NURS 214B.
Corequisite(s): NURS 294C.
Term Typically Offered: Fall, Spring

Introduction to curriculum development and instructional design concepts in preparation for the role of educator in an educational institution or health care setting. Continues emphasis on instructional design, related to curriculum development and implementation, and to program evaluation. Lecture three hours.

Note: FOCUS alternates between K-12 and higher education.

NURS 215. Community Health Services and Policy. 3 Units
Prerequisite(s): NURS 209 and NURS 210, or instructor’s permission.
Term Typically Offered: Fall, Spring

Examines issues of health policy, financing, and the organization and delivery of health services at the local, national, and global levels. Health promotion will be defined and the influence of community on the individual, group, and family’s health will be explored. Epidemiological data bases will be identified. These data bases will be critiqued and used to develop a health promotion program.

NURS 216. Vision and Scoliosis Screening. 1 Unit
Term Typically Offered: Fall, Spring

Theory and practice of detecting idiopathic scoliosis, and visual disorders resulting from inadequate refraction, ocular mal-alignment, and color deficiency in the school setting. The pathophysiology of said conditions will be presented, the nursing role delineated, and opportunities for paired screening practice provided.

NURS 230. Advanced Concepts in Pathophysiology. 3 Units
Term Typically Offered: Fall, Spring

Seminar designed to promote the understanding and application of fundamental disease processes and physiological principles in cross-clinical settings for the purpose of improving nursing assessments and patient care management. Lecture three hours.
NURS 231. Pharmacology for Advanced Practice. 3 Units
Term Typically Offered: Fall, Spring

Conceptual and systematic study of pharmacodynamics, pharmacokinetics, pharmacoeconomics and therapeutic implications for healthcare practitioners. Efficient use of traditional and web based pharmaceutical resources is encouraged. Designed to meet Board of Registered Nursing requirements for prescriptive privileges. Requires familiarity with disease process. Lecture three hours.

NURS 232. Advanced Physical Assessment Across the Lifespan. 3 Units
Prerequisite(s): NURS 209 and NURS 210.
Term Typically Offered: Fall, Spring

Advanced concepts and skills in health and physical assessment are essential to the clinical decision making and caring process for the nurse in advanced practice and leadership roles. The emphasis is on eliciting an accurate and thorough history considering the client's multiple dimensions, development of advanced physical examination skills and the development of documentation skills to provide a database for continuous improvement of nursing practice.

Note: Availability of a stethoscope is required. Individual practice outside of class is required.

NURS 232A. Advanced Physical Assessment: Infant, Child, Adolescent. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Seminar designed to present techniques related to the physical assessment, in the school or home setting, of the child, age birth through 18 years. Emphasis is on the common morbidities and mortalities of these age groups including interrelationship of the physical, emotional and socioeconomic causes of health problems and illnesses. Availability of an otoscope and stethoscope required. Individual practice required outside of class. Lecture three hours.

NURS 293. Practicum in Organizational and Systems Leadership. 3 Units
Prerequisite(s): NURS 209, NURS 210, NURS 214, NURS 230, NURS 231, NURS 232, and instructor permission.
Corequisite(s): NURS 213.
Term Typically Offered: Fall, Spring

This course provides supervised field experience to provide the student with an opportunity to apply theoretical concepts from NURS 213 in a clinical practice setting focusing on the care of adult clients. The emphasis of this experience will be to application of graduate core competencies to guide leadership in nursing praxis in the planning, implementation and evaluation of quality healthcare for individuals, families, and groups.

Credit/No Credit

NURS 293D. Practicum in Specialized Nursing Processes: School Nursing. 4 Units
Prerequisite(s): NURS 213C.
Corequisite(s): NURS 213D.
Term Typically Offered: Fall, Spring

Application of a planned sequence of supervised clinical experiences in one or more California public school districts offering nursing services to infants, children and adolescents for the purpose of developing a clinical leadership role in school nursing. Focuses on the three major competencies of school nursing practice: providing health and wellness services, providing direct client care services for school-age children (pre-k through age 22, including students with special health care needs), and professional management of school nursing services.

Credit/No Credit

NURS 294. Practicum in Educational Program Development in Nursing. 3 Units
Prerequisite(s): NURS 214, may be taken concurrently.
Term Typically Offered: Fall, Spring

Opportunity for analysis and synthesis of concepts of management and leadership in an educational setting while practicing the role of a nursing educator.

Credit/No Credit

NURS 295. Field Study. 1 - 6 Units
Term Typically Offered: Fall, Spring

Experiences in an off-campus facility are provided for the continued development of clinical or functional role skills. Each student spends 45 hours per unit. Field study is not designed to be used in lieu of regularly scheduled practicums. Enrollment in NURS 295 requires permission of a faculty member who will serve as sponsor and coordinator of the experience.

Credit/No Credit

NURS 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research, study, and directed reading in an area not directly covered in the Division's core courses, role preparations or electives. Students pursue a particular course of study on a one-to-one basis with a faculty member. Educational objectives must be specified in advance.

Credit/No Credit

NURS 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy for the Master's degree and must be in the final semester of the program.
Term Typically Offered: Fall, Spring

The Culminating Experience is in the form of a comprehensive examination. The comprehensive examination is an original scholarly paper that reflects an in-depth problem-solving proposal or a business proposal. Students that wish to do a thesis or project as the culminating experience must petition the Division of Nursing Graduate Committee and will be approved on an individual basis.

BS in Nursing (Pre-Licensure)

Units required for Pre-Clinical: 29
Units required for Major: 61
Total units required for BS: 120
Program Description

The School of Nursing prepares nurses to lead diverse individuals, families, and communities in achieving optimal health through nursing science, collaborative practice, advocacy, and service.

Admission Requirements

Admission to the Sacramento State baccalaureate Nursing program is a two-step process:

1. admission to the University and
2. admission to the Clinical Nursing program

Prospective first-time freshmen and transfer students, who will not complete certain Clinical Nursing prerequisites by the time they enroll, may apply for University admission at any time up to the regular application deadline. They will be considered "expressed interest" until they enter the Clinical Nursing program.

Up to 80 traditional pre-licensure students are admitted to the clinical portion of the baccalaureate Nursing program each semester. A competitive selection process has been established since applications exceed program space in the traditional pre-licensure program. Newly admitted students are selected from among candidates who meet the prerequisite requirements and follow the supplemental application procedures described below. Continuing Sacramento State, transfer students, and second baccalaureate degree applicants are given equal consideration in the selection process for available new seats.

The clinical portion of the nursing program is open only to those who can satisfy the California residence requirements. Students who qualify for Deferred Action for Childhood Arrivals (DACA) status, AB 540 status, or military fee waiver are eligible.

Admission Advising

Group advising meetings are scheduled throughout the academic year. Times of these meetings and program publications are available on the School of Nursing website (http://www.csus.edu/hhs/nrs/).

Application Procedures - Nursing Pre-Licensure BSN Program

Clinical Nursing Selection Criteria

- The GPA of the pre-clinical and corequisite courses completed at the time of application, the results of the ATI Test of Essential Academic Skills (TEAS), and the optional criteria, if selected by the student, will be used to determine program admission.
- Applicants who satisfy the minimum admission point total are selected from a rank ordering or total points assigned to different GPA and TEAS result levels as well as points assigned to the optional criteria.

Prerequisites Requirements - Nursing Pre-Licensure BSN

The following prerequisites are to be met by time of enrollment unless otherwise stated.

- Completion of six of the eight specific courses listed under pre-clinical courses. One science and one non-science pre-clinical course may be in progress at the time of application. All eight pre-clinical courses must be completed in December when applying for a spring term; June for fall. When applying for a fall term, coursework completed in summer will not be considered or accepted. Pre-Clinical courses are acceptable regardless of date completed, but current knowledge is essential.
- Applicants are encouraged to complete the corequisite courses prior to admission. Introductory Psychology, Nutrition, and Life Span Human Development must be completed prior to the second semester of the nursing program. A societal-cultural patterns course must be completed prior to licensure and graduation.
- A minimum science GPA of 3.0 is required on the pre-clinical science courses completed at the time of application (anatomy, physiology, microbiology, and chemistry). One science course may be in progress at the time of application.
- A minimum GPA of 3.3 is required on the pre-clinical and corequisite courses completed at the time of application. Applicants may omit up to two grades from their GPA calculation providing they have a minimum of eight grades total, including 2 science grades. For example, an applicant applying with nine grades may omit one grade; an applicant with 10-12 grades may omit up to two grades. All pre-clinical and corequisite courses must be completed with a grade of "C" or better. Up to 50 admission points will be assigned based on the applicant’s GPA (see School of Nursing website for details).
- All GPAs will be calculated using standard weights, not varying institutional unit assignments. Science lab courses will be weighted four (4) units; all other coursework will be weighted three (3) units. Pluses and minuses are not considered.
- Only three (3) of the twelve (12) grades in the Nursing GPA calculation may be repeats; only one (1) of the three (3) repeats may be a science course. A third attempt will not be considered. Courses over seven (7) years old are acceptable, but not included in repeat count.
- Completion of the ATI, Test of Essential Academic Skills (TEAS).

A minimum score of 75.0% is required. The test must be taken no later than March 1 for the following fall semester or October 1 for the following spring semester. The test may be taken three times within a five-year period preceding the Supplemental Nursing Application deadline. The highest score will be used. Points will be assigned based on the applicant's total score from the best testing. See School of Nursing website for current point details and amounts.

- A minimum admission point total is required. The total will be based on current applicant pool statistics and posted on the Nursing website.

Optional points for admission (see School of Nursing website for current point details and amounts) are awarded in the following categories:

Bilingual Skills in Spanish, Chinese, South East Asian Languages, Indian Languages (Hindi, Punjabi), Tagalog, Russian, Farsi, Arabic, or American Sign Language will be determined by:

- completion of an oral proficiency examination;
- transcript documenting instruction provided in approved language.

Health-Related Work Experience. Candidates may receive points for documentation of paid or volunteer work in acute, long term, clinical, or community settings which involves direct human-client/patient interactions. Hours may be combined from multiple locations. Points are awarded for the following increments of time:

- 50 hours – minimum possible points
- 75 hours
- 100 hours – maximum possible points

Background. Details can be found on the nursing website.
• First-Generation College Student. Neither parent graduated with an associate or higher degree.

• Environmental Background: (see School of Nursing website for details).

**GPA Calculation:** Candidates may receive points for having no course omits for total GPA calculation and/or not having a repeat of a pre- or co-requisite course. Details can be found on the nursing website.

**Additional Information**

**Health Requirements**

Students admitted to the Clinical Nursing program are required to have specified immunizations by the Student Health Center or a private physician prior to beginning nursing coursework. Drug and alcohol screening is required before beginning clinical nursing (see below for details). Health insurance is required. Complete information on health requirements for nursing students may be secured from the School of Nursing.

**Technology Competence**

To be successful in the curriculum, students must be able to demonstrate competency in computer technology, such as word processing, use of the Internet, e-mail, and database searches. Clinical nursing students are required to own a personal computer.

**Professional Liability Insurance, Automobile Insurance, Transportation and CPR Certification**

All students enrolled in clinical laboratory courses in the nursing major must pay the University fee for professional liability insurance, provide proof of automobile insurance, and have a means of transportation to extended campus facilities. Professional liability insurance is mandatory prior to beginning clinical experiences. CPR certification for medical professionals is required as a prerequisite to the program and recertification must be maintained according to the requirements of the American Heart Association.

**Background Checks**

Nursing students must satisfactorily complete all clinical, community, and laboratory requirements in order to progress in courses, progress in the program, and to receive their degree. In order to make an initial determination as to whether there are any current barriers to admitted students qualifying for and/or participating in clinical programs, all admitted students must submit to a background check and drug screen under the direction of the nursing program prior to enrollment. Requirement for drug screening is consistent with the California Board of Registered Nursing guidelines for safe nursing practice. Results of background checks and drug screens will be provided to the nursing program’s affiliating clinical agencies (partner agencies) which must approve the background checks and drug screens in order for students to qualify for participation in and fulfillment of the required clinical component. Students will be advised of any identified issues impacting their eligibility for participation in required clinical and community placements prior to making their decision to enroll. The full policy concerning background checks and drug screening in the nursing program can be found on the School of Nursing website (http://www.csus.edu/hhs/nrs/). Students should also be aware that the State of California Board of Registered Nursing makes determinations for licensure based in part on background checks. Students who have concerns regarding their background checks should review the BRN website (http://www.rn.ca.gov/enforcement/convictions.shtml/) for information related to initial licensure before determining whether to apply and/or enroll in the nursing program.

**Challenge by Examination**

The School of Nursing offers the opportunity of petitioning certain nursing courses for credit by examination. Students who by reason of special study, experience or training, already possess the skills, knowledge, and attitudes which are the objectives of the given course, may petition for credit by examination. A maximum of 30 units may be challenged. Licensed Registered Nurses, Licensed Vocational Nurses, and Corpsmen are examples of students who may be eligible to challenge specific nursing courses. Additional information may be obtained by referring to “Credit by Examination” in this catalog or by contacting the School of Nursing.

**Note:** Students graduating with a Pre-Licensure BS Program in Nursing (traditional) will not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td></td>
<td><strong>Required Pre-Clinical Courses (29 Units)</strong></td>
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<tr>
<td></td>
<td>Select a two-semester Anatomy and Physiology series with an in-class lab such as:</td>
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<td></td>
<td>BIO 25 &amp; BIO 26 Human Anatomy and Physiology I</td>
<td>8</td>
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<tr>
<td></td>
<td>Select a Microbiology course with an in-class lab such as:</td>
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<td></td>
<td>BIO 39 Microbiology for Allied Health Students</td>
<td>5</td>
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<tr>
<td></td>
<td>Select a Chemistry course; general, inorganic, organic, or integrated (with associated lab if required at the Institution where the course was taken) such as:</td>
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<td></td>
<td>CHEM 6A Introduction to General Chemistry</td>
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<td></td>
<td>Select an introductory college composition (any GE Area A2) course such as:</td>
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<td></td>
<td>ENGL 5 Accelerated Academic Literacies</td>
<td>1</td>
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<td></td>
<td>Select an Oral Communication (any GE Area A1) course such as:</td>
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<td></td>
<td>COMS 4 Introduction to Public Speaking</td>
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<td></td>
<td>Select a statistics (any GE Area B4) course such as:</td>
<td>3</td>
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<tr>
<td></td>
<td>STAT 1 Introduction to Statistics</td>
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<td></td>
<td>Select a Critical Thinking (any GE Area A3) course such as:</td>
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<tr>
<td></td>
<td>COMS 2 Argumentation</td>
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<tr>
<td></td>
<td>or ANTH 4 Language, Culture, and Critical Thinking</td>
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<tr>
<td></td>
<td><strong>Required Clinical Nursing Courses (61 Units)</strong></td>
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<td></td>
<td><strong>At any time prior to 2nd semester</strong></td>
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<tr>
<td></td>
<td>CHDV 30 (or similar course in Life Span Human Development)</td>
<td>3</td>
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<td></td>
<td>FACS 10 (or similar course in Human Nutrition)</td>
<td>3</td>
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<tr>
<td></td>
<td>PSYC 2 Introductory Psychology (or similar course in Introductory Psychology)</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>First Semester Courses</strong></td>
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<tr>
<td></td>
<td>NURS 111 Introduction to Professional Nursing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NURS 112 Nursing Care Of Adults</td>
<td>5</td>
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<tr>
<td></td>
<td>NURS 113 Professional Nursing Communication, Assessment and Skills</td>
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<tr>
<td></td>
<td><strong>Second Semester Courses</strong></td>
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<tr>
<td></td>
<td>NURS 120 Nursing Application of Research and Critical Analysis</td>
<td>3</td>
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<tr>
<td></td>
<td>or NURS 121 Nursing Application of Research and Critical Analysis</td>
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<tr>
<td></td>
<td>NURS 123 Nursing Families in Complex Illness</td>
<td>6</td>
</tr>
</tbody>
</table>
Notes:

• Applicants with a prior baccalaureate degree are exempt from General Education requirements.

• In addition to the major in Nursing, students may also complete a minor in another discipline. There are numerous disciplines which would enrich the baccalaureate degree in Nursing (e.g., Gerontology). Information on minors can be obtained by contacting the department of interest.

• Satisfactory completion of the program requires a grade of "C" or better in every nursing course. The policy in the School of Nursing permits one repeat of only one failed course. However, opportunity to repeat a failed nursing course will depend upon the number of students enrolled in the course, the availability of clinical and community experiences (if applicable), and a successful petition to repeat from the School of Nursing. Course repeats are not permitted to increase grade.

When possible, students are encouraged to apply their pre-clinical courses to General Education requirements.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>Area A: Basic Subjects</td>
<td></td>
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<tr>
<td>A1</td>
<td>Oral Communication</td>
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</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
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</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>0</td>
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<tr>
<td>Area B: Physical Universe and Its Life Forms (3 Units)</td>
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<tr>
<td>B1</td>
<td>Physical Science</td>
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</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
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</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
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<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
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<tr>
<td>C1</td>
<td>Arts</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
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<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
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<tr>
<td>Area D: The Individual and Society (3-6 Units)</td>
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<tr>
<td>D1</td>
<td>Course</td>
<td>3</td>
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<tr>
<td>Area E: Understanding Personal Development</td>
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<td>E1</td>
<td>Course</td>
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<tr>
<td>Area F: Ethnic Studies (3 Units)</td>
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<td>F1</td>
<td>Course</td>
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Graduation Requirements

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<tr>
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<th>Units</th>
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<tbody>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
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<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
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<tr>
<td>Writing Intensive (WI)</td>
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<tr>
<td>Graduation Requirements (required by Sacramento State) (6 Units)</td>
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<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
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<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td>0</td>
<td></td>
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</tbody>
</table>
To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

### Required in Major; also satisfies Graduation Requirement.

- have an overall GPA of 3.0 (if the GPA requirement is unmet, the student may apply for conditional classification and demonstrate academic ability by enrolling in, and successfully passing with a "B" (83%) or better, NURS 209 and NURS 210 in one attempt);
- possess a current unencumbered RN license in California; and
- submit a statement of purpose that outlines the goals and objectives for the pursuit of graduate study.

### Professional Liability and Automobile Insurance and Health Requirements

All students enrolled in clinical laboratory courses in the Master’s program must pay the fee for the University professional liability insurance. Professional liability insurance is mandatory prior to beginning clinical experiences. Proof of automobile insurance may be required for clinical experience. The student admitted to the Master’s program is required to have specified immunizations by the Student Health Service or a private physician prior to beginning nursing coursework. Drug and alcohol and background screening is required. Health insurance is required. Complete information on health requirements may be secured from the School of Nursing.

### Technology Competence

To be successful in the curriculum, students must be able to demonstrate competency in computer technology, such as word processing, use of the Internet, e-mail, and database searches.

### Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following materials as a complete admission packet with the Office of Graduate Studies:

- an online application for admission;
- one set of official transcripts from all colleges and universities attended, other than Sacramento State;

For more admissions information and application deadlines please visit the School of Nursing website (http://www.csus.edu/gradstudies/).

Notice of the decision regarding admission will be mailed to the applicant after files are complete and reviewed. Students will be assigned a faculty advisor at the beginning of the school year.

### Minimum Units and Grade Requirement for the Degree

Units required for the MS: 33

Minimum Cumulative GPA: 3.0

### Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. The procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program, with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.
Advancement to Candidacy forms are available online at www.csus.edu/gradstudies/forms (http://www.csus.edu/gradstudies/forms/), Office of Graduate Studies. The student fills out the form after planning a degree program in consultation with his/her advisor. The completed form is then returned to the Office of Graduate Studies for approval. Students may not register for the Culminating Requirement until they have advanced to candidacy.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 209</td>
<td>Advanced Role Development in Nursing</td>
<td>3</td>
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<tr>
<td>NURS 210</td>
<td>Research as the Foundation for Advanced Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 213</td>
<td>Seminar in Organizational and Systems Leadership</td>
<td>3</td>
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<tr>
<td>NURS 214</td>
<td>Educational Program Development in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 215</td>
<td>Community Health Services and Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

**Advanced Practice Role Preparation (15 Units)**

Select one of the following areas:  

**Advanced Clinical/Educator Role**

- NURS 230 Advanced Concepts in Pathophysiology
- NURS 231 Pharmacology for Advanced Practice
- NURS 232 Advanced Physical Assessment Across the Lifespan
- NURS 293 Practicum in Organizational and Systems Leadership
- NURS 294 Practicum in Educational Program Development in Nursing

**School Nursing Role**

- NURS 213C Seminar in Specialized Nursing Processes: School Nursing I
- NURS 213D Seminar in Specialized Nursing Processes: School Nursing II
- NURS 232A Advanced Physical Assessment: Infant, Child, Adolescent
- NURS 293D Practicum in Specialized Nursing Processes: School Nursing

**Culminating Requirement (3 Units)**

- NURS 500 Culminating Experience | 3     |

**Total Units** 33

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**Prerequisite Requirements**

**Prerequisites (8 Units)**

- Microbiology with a lab (such as BIO 39) | 4     |
- Physiology with a lab (such as BIO 25) | 4     |

**Total Units** 8

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**Program Requirements**

**First Semester**

- NURS 119 Mental Health Nursing for the LVN 30-Unit Option | 4     |
- NURS 123 Nursing Families in Complex Illness | 6     |

**Second Semester**

- NURS 133 Leadership and Management for the LVN to RN | 2     |
- NURS 137 Nursing the Childbearing Family | 5     |
- NURS 138 Nursing the Childrearing Family | 5     |

**Total Units** 12

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**School Nurse Credential**

Units required for Credential: 22-25

**Program Description**

Students who are eligible for the California School Nurse Services Preliminary Credential from the California Commission on Teacher Credentialing and who meet the graduate program admission criteria may apply to the program. Admission criteria and procedures are similar to those for the MS program except the application and recommendation forms are directed to the School Nurse Program Coordinator. Students are held to the same professional liability and automobile insurance and health requirements as MS students.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 213C</td>
<td>Seminar in Specialized Nursing Processes: School Nursing I</td>
<td>4</td>
</tr>
<tr>
<td>NURS 213D</td>
<td>Seminar in Specialized Nursing Processes: School Nursing II</td>
<td>4</td>
</tr>
<tr>
<td>NURS 214</td>
<td>Educational Program Development in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 215</td>
<td>Community Health Services and Policy</td>
<td>3</td>
</tr>
<tr>
<td>NURS 216</td>
<td>Vision and Scoliosis Screening</td>
<td>1</td>
</tr>
<tr>
<td>NURS 232A</td>
<td>Advanced Physical Assessment: Infant, Child, Adolescent</td>
<td>3</td>
</tr>
<tr>
<td>NURS 293D</td>
<td>Practicum in Specialized Nursing Processes: School Nursing</td>
<td>4</td>
</tr>
</tbody>
</table>

Coursework required to become certified as a California school audiometrist | 0 - 3 |

**Total Units** 22-25

In addition to the above courses, the Professional Credential for MS candidates requires two years of full-time school nurse experience (or its part-time equivalent).

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**LVN 30 Unit Option Non-Degree Program**

Units required for Major: 30

**Program Description**

California law allows Licensed Vocational Nurses to take the Registered Nurse licensure exam after completing 30 units of academic coursework in Nursing and related science subjects. For more information on this option contact the School of Nursing to make an appointment to speak with an advisor. Admission to the University and a 3.0 combined average GPA on the two prerequisite science courses is required.
Special Teaching Authorization in Health (STAH)

Program Description
The STAH option is available to school nurses who wish to position themselves to become faculty of record for health classes within public school districts. The STAH is not required for the school nurse credential but is considered a supplemental credential. Candidates for the STAH must hold a school nurse credential or apply for both credentials at the same time. The STAH authorizes nurses to provide health education instruction beyond that of periodic guest presentations (e.g., Family Life Education) and allows school administrators to utilize nurses in the capacity of health educators through the provision of direct and regular health instruction.

Program Requirements
Completion of nine units of educational pedagogy including a supervised student (practice) teaching experience and passing of the CBEST (California Basic Educational Skills Test).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>NURS 214C</td>
<td>Educational Program Development in Nursing II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 294</td>
<td>Practicum in Educational Program Development in Nursing</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>6</strong></td>
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</table>

Physical Therapy

College of Health and Human Services

Program Description
The primary mission of the California State University, Sacramento Doctor of Physical Therapy program is to graduate knowledgeable, effective, adaptable, and reflective physical therapist generalist practitioners and health care leaders. Graduates demonstrate ethical, responsible, professional behavior, are sensitive to cultural and psychosocial differences, use evidence derived from the scientific and professional literature to inform independent judgments to meet patient needs and to advance the profession. They utilize critical and integrative thinking and problem-solving, practice lifelong learning, and provide services that contribute to the optimal health and function of community residents.

Physical Therapy at Sacramento State is one of several professional curricula in the College of Health and Human Services. The program complements others in the College and provides opportunities for scholarship, instructional collaboration, and interaction.

The doctoral curriculum of 3 years, including summers, encompasses didactic instruction, laboratory experience, and clinical education. The clinical component is thirty-six weeks of full-time, off-campus clinical experiences.

Degree Program
Doctor of Physical Therapy (p. 745)

Accreditation
In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Doctor of Physical Therapy is also individually accredited by Commission on Accreditation in Physical Therapy Education (CAPTE).

Notice to Students RE: Professional Licensure and Certification
California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features
• Following successful completion of both the clinical and regular academic program, students are awarded a Doctor of Physical Therapy and will be eligible to take the National Physical Therapy Licensure Examination.
• The Doctor of Physical Therapy degree program at Sacramento State is fully accredited by the Commission on Accreditation in Physical Therapy Education/APTA. The Commission can be contacted for questions at:
  1111 North Fairfax Street
  Alexandria, VA 22314-1488
  (703) 684-2782

Notes:
• Admission is for fall semester only.
• Classes are offered primarily during daytime hours, and full-time study is required.

Career Possibilities
Hospitals · Ambulatory Care Centers · Private Practice · Sports Medicine Centers · Rehabilitation Centers · Industries · Extended Care Facilities · Home Health Care · Schools · University Teaching and Research · Consulting

Contact Information
D. Michael McKeough, PT, Ed.D., Director
Mable Boban, Administrative Coordinator
Folsom Hall 1054
(916) 278-6426
Department of Physical Therapy Website (http://www.csus.edu/hhs/pt/)

Faculty
COLEMAN-SALGADO, BRYAN
ESCAMILLA, RALPH
GARCIA, WILLIAM
GREEN, ERIN
LAZARO, ROLANDO
MacLEOD, TORAN
MATTERN-BAXTER, KATRIN
McKEOUGH, D. MICHAEL
MOORE, BRIAN
THOMPSON, IRWIN SCOTT

PT 280. Graduate PT Seminar II. 1 Unit
Term Typically Offered: Fall, Spring

Presented after the final clinical field experience, will review students’ experiences in the clinic and promote reflection on the professional practice of physical therapy. Serves as a review of a variety of physical therapy subjects in preparation for the licensure examination. Students will use computer interactive software to assist with preparation for this standardized national test format.

Note: Open to Physical Therapy majors only.

PT 295. Physical Therapy Clinical Experience. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised clinical affiliation equivalent to two full-time weeks up to six full-time weeks in a physical therapy setting under the direct supervision of a licensed Physical Therapist.

Note: Placement is arranged through the Program. Permission of Clinical Coordinator required.

Credit/No Credit

PT 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading designed for students capable of independent study.

Note: Admission requires written approval of instructor and program director.

Credit/No Credit

PT 510. Audiology Progress Exam. 1 Unit

Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 620, CSAD 620C, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 630, CSAD 630C, CSAD 631, CSAD 632.

Term Typically Offered: Summer only

Formative written and practical exam based on coursework and clinical experiences from the first year of the Doctor of Audiology program.

Credit/No Credit

PT 500. Pathokinesiology. 5 Units

Prerequisite(s): Open to Physical Therapy majors only.

Corequisite(s): BIO 633, PT 602, PT 608, PT 630.

Term Typically Offered: Fall, Spring

This course will address functional anatomy, surface anatomy with palpation, arthrology, biomechanics, pathologies related to the musculoskeletal and nervous systems. Both normal motion and pathological motion will be addressed. Students will gain competence in surface anatomy and palpation skills.
PT 614. Neuroscience for Physical Therapy. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 606, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

This course is designed to prepare clinicians to better understand the neurological control of human behavior. A systems approach is used to examine the major anatomical and physiological principles and mechanisms by which the nervous system controls behavior under normal and pathological conditions. Because the course is being taught to health care professionals, clinical correlates of each system will also be presented. One class session is dedicated to presentation of human gross anatomical specimens.

PT 618. Foundations for Patient Management. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 606, PT 614, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

This course introduces the disablement model that forms the conceptual framework for understanding and organizing the practice of physical therapy. The model delineates the possible consequences of disease and injury for the person and society. The course goes on to identify how the model informs the five elements of patient management: Examination, Evaluation, Diagnosis, Prognosis (including Plan of Care), and Intervention. The course will further expand on professionalism introduced in PT 608.

Note: Open to Physical Therapy majors only.

PT 620. Physical Therapy Interventions I. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 606, PT 614, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

In this course students learn, practice and demonstrate the clinical application of basic exercise regimes for the prevention of limitations, improvement of functional abilities and the treatment of disorders associated with the neuromuscular, skeletal and cardiopulmonary systems. In addition, the application of motor control principles to exercise and aquatic therapy are addressed.

Note: Open to Physical Therapy majors only.

PT 622. Evidence Informed Practice II. 3 Units
Corequisite(s): PT 604, PT 606, PT 614, PT 618, PT 620.
Term Typically Offered: Fall, Spring

Designed to build upon the data analysis and research design topics covered in PT 602. Emphasis will be placed on evidence based methodologies currently used in the physical therapy literature evaluating the effectiveness of interventions, the validity of outcome measures, the validity of diagnostic measures, and the identification of prognostic measures.

Note: Open to Physical Therapy majors only. Prerequisite

PT 624. Adult Neuromuscular Patient Management I. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 626, PT 630, PT 632, PT 634, PT 636, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course is first in a three course sequence focused on acquisition and integration of knowledge and skills needed to manage patients with movement dysfunction caused by neurological damage (Referred to in the Guide as Neuromuscular Practice Patterns). Focus is on development and implementation of plans of care based on sound evaluative, treatment and problem-solving skills.

Note: Open to Physical Therapy majors only.

PT 625. Musculoskeletal Patient Management I. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 638.
Corequisite(s): PT 624, PT 626, PT 636, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course, the first of three, focuses on acquisition, integration, knowledge and skills involved in developing and implementing a patient management plan for the patient with musculoskeletal dysfunction based on sound evaluative findings. Lectures address etiology, signs and symptoms, medical, surgical, and physical therapy management of musculoskeletal dysfunction. Labs address skill development for performing evaluation and interventions safely and effectively. The course addresses the management of lower extremity dysfunction.

Note: Open to Physical Therapy majors only.

PT 626. Clinical Agents. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 638.
Corequisite(s): PT 624, PT 625, PT 636, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course presents theory, demonstration and laboratory practice in physical therapy modalities and techniques including thermal agents, hydrotherapy, ultrasound (US), ultraviolet, diathermy and massage. Theory, demonstration and practice using electrical modalities are included. Case studies will be utilized for decision making in the proper application of modalities based on current research evidence, knowledge of indications, contradictions and physiologic effects.

Note: Open to Physical Therapy majors only.

PT 627. Physical Therapy Educator. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 646.
Corequisite(s): PT 644, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course presents the role of the physical therapist as health educator. The course introduces teaching and learning theory, learning domains, the identification of learning styles, and teaching strategies to address different learner needs across the life-span. Students will practice instructional formats and prepare and analyze patient education materials. Students will practice applications of appropriate technology for the design of professional presentations. Self-assessment, reflection and peer-assessment are required course components.

Note: Open to Physical Therapy majors only.
PT 630. Pathophysiology. 3 Units
Prerequisite(s): Admission to the Doctor of Physical Therapy Program.
Corequisite(s): BIO 633, PT 600, PT 602, PT 608.
Term Typically Offered: Fall, Spring

This course is designed to promote the understanding and application of fundamental disease processes in clinical settings. General concepts of disease, including etiology, pathogenesis, morphology, and clinical significance are discussed within the context of cases. General pathophysiology concepts include: cell injury, necrosis, inflammation, wound healing and neoplasia. These concepts are applied in a systems-orientated approach to disease processes affecting musculoskeletal, cardiopulmonary, renal, nervous, gastrointestinal, immune, hematological and endocrine systems.

PT 632. Pharmacology for Physical Therapists. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 634, PT 638.
Term Typically Offered: Fall, Spring

This course provides a study of pharmacological agents and their effects on the musculoskeletal, neuromuscular, cardiopulmonary and integumentary systems. Particular emphasis is placed on recognition of adverse reactions and side effects of various drugs as they affect patients receiving physical therapy.
Note: Open to Physical Therapy Majors only.

PT 634. Diagnostic Imaging for Physical Therapy. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 632, PT 638.
Term Typically Offered: Fall, Spring

This course provides an overview of imaging techniques commonly used in radiology and their implications to the role of physical therapists in professional practice. The role of imaging techniques in the diagnostic and intervention-planning processes for physical therapists is presented.
Note: Open to Physical Therapy Majors only.

PT 636. Geriatrics/Gerontology for Physical Therapists. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 638.
Corequisite(s): PT 624, PT 625, PT 626, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course explores normal and pathological aging and the implications of both on Physical therapist practice. It will explore the ramifications of aging components of patient management interventions including major practice patterns: musculoskeletal, neuromuscular, cardiopulmonary, and integumentary. It will also explore how aging may impact patient teaching.
Note: Open to Physical Therapy Majors only.

PT 638. Health, Wellness and Ergonomics in Physical Therapy. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 632, PT 634.
Term Typically Offered: Fall, Spring

This course presents basic philosophical, historical, psychological and scientific foundations in wellness; reviews cultural forces/theories that affect individuals and society; applies concepts of healthy lifestyle education to reach an understanding of the importance of wellness and to establish an effective and potentially fulfilling lifestyle.
Note: Open to Physical Therapy majors only.

PT 640. Physical Therapy Interventions II. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, and PT 638.
Corequisite(s): PT 624, PT 625, PT 626, PT 636, PT 646
Term Typically Offered: Fall, Spring

This course is a continuation of Physical Therapy Interventions I. This course focuses on the presentation of selected topics in acute care and cardiopulmonary Physical Therapy. Students will learn how to perform appropriate and comprehensive examinations, interpret the examination findings as well as design and implement a plan of care based upon the next available evidence.
Note: Open to Physical Therapy majors only.

PT 644. Adult Neuromuscular Patient Management II. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course is the second in a three course sequence focused on acquisition and integration of knowledge and skills needed to manage patients with movement dysfunctions caused by neurological damage (Referred to in the Guide as Neuromuscular Practice Patterns). Focus is on development and implementation of plans of care based on sound evaluative findings and evidence of efficacy. Case presentation, video demonstrations, and patient contact is used to develop evaluation, treatment and problem solving skills.
Note: Open to Physical Therapy majors only.

PT 645. Musculoskeletal Patient Management II. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course, the second of three, focuses on acquisition and integration of knowledge and skills involved in developing and implementing management plans for patients with musculoskeletal dysfunction from sound evaluative findings. Lectures address etiology, signs and symptoms, medical, surgical, and physical therapy management of musculoskeletal dysfunction. Labs address safe and effective evaluation and interventions, specifically joint mobilizations. Joint mobilizations will cover one technique per joint restriction. This course addresses upper extremity and spine dysfunction.
Note: Open to Physical Therapy majors only.
PT 646. Acute Care and Cardiopulmonary Physical Therapy. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636 and PT 638.
Corequisite(s): PT 624, PT 625, PT 626, PT 640.
Term Typically Offered: Fall, Spring

This course focuses on the presentation of selected topics in acute care and cardiopulmonary Physical Therapy. The course includes a discussion of common pathologies in the cardiopulmonary system and those associated with an acute care setting, as well as common medical tests, laboratory tests, surgical procedures and pharmacological interventions used with this patient population.

Note: Open to Physical Therapy majors only.

PT 648. Health Care Delivery in Physical Therapy I. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course provides a historical overview of health care delivery and financing in the U.S., up to and including the current effects on the delivery of physical therapy care. The continuum of care concept, an overview of national economic policy and the mechanisms for financing physical therapy services will be presented. Administrative topics including human resources, financial management, planning, marketing, patient’s rights, and medical records management will be covered.

Note: Open to Physical Therapy majors only.

PT 660A. Graduate Physical Therapy Seminar A: Research. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630
Term Typically Offered: Fall, Spring, Summer

This seminar is the first designed for advanced study and mentoring in physical therapy research. Students will be participating in faculty-directed research projects. Students’ activities will vary depending on the faculty member and research project being conducted. Students are required to perform at least 50 hours of activities toward the directed research project to receive credit for this course. This course satisfies one of two requirements for selected seminars in the curriculum.

Note: Open to Physical Therapy majors only.

PT 660B. Graduate Physical Therapy Seminar B: Research. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630
Term Typically Offered: Fall, Spring, Summer

This seminar is the second designed for advanced study and mentoring in physical therapy research. Students will be participating in faculty-directed research projects. Students’ activities will vary depending on the faculty member and research project being conducted. Students are required to perform at least fifty hours of activities toward the directed research project to receive credit for this course. This course satisfies one of two requirements for selected seminars in the DPT curriculum.

Note: Open to Physical Therapy majors only.

PT 660C. Graduate Physical Therapy Seminar C: Research. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630
Term Typically Offered: Fall, Spring, Summer

This seminar is the third designed for advanced study and mentoring in physical therapy research. Students will be participating in faculty directed research projects. Students’ activities will vary depending on the faculty member and research project being conducted. Students are required to perform at least 50 hours of activities toward the directed research project to receive credit for this course. This course satisfies one of two requirements for selected in the DPT curriculum.

Note: Open to Physical Therapy majors only.

PT 660D. Graduate Physical Therapy Seminar D: Electrotherapeutics. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This is a seminar laboratory experience focusing on electromyography and electrodiagnostics in physical therapy. The lab will allow students to research and apply evidence-based practice and gain advanced hands-on practice in performing and interpreting the results of electromyographic and nerve conduction velocity testing with clients. This course satisfies one of two requirements for selected seminars in the curriculum.

Note: Open to Physical Therapy majors only.

PT 660E. Graduate Physical Therapy Seminar IE: NeuroPediatric Laboratory. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This seminar laboratory experience focuses on pediatric patient management. The lab will allow students to research and apply evidence-based practice and gain advanced hands-on practice in pediatric physical therapy. This course is best suited for students planning a career in pediatric patient management. The course satisfies one of two requirements for selected seminars in the curriculum.

Note: Open to Physical Therapy majors only.

PT 660F. Graduate Physical Therapy Seminar IF: Adult Neuromuscular Laboratory. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 646, PT 662, PT 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This seminar laboratory experience focuses on adult neuromuscular patient management. The laboratory will allow students to research and apply evidence-based practice and gain advanced hands-on practice in adult neurorehabilitation. Students will also serve as mentors for the Mock Clinic portion of PT 624. This course satisfies one of two requirements for selected seminars in the curriculum.

Note: Open to Physical Therapy majors only.
**PT 660G. Certified Strength and Conditioning Specialist (CSCS). 2 Units**

**Prerequisite(s):** BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.

**Corequisite(s):** PT 663, PT 664, PT 665, PT 668

**Term Typically Offered:** Fall, Spring

This seminar is designed to prepare students to take the Certified Strength and Conditioning Specialist Examination. The seminar covers the topics of exercise physiology, bioenergetics, nutritional factors in performance, resistance, speed, and agility training, and the clinical applications of these concepts. Video demonstrations, and actual patient contact will be used to develop the student's clinical skills. This course satisfies one of two requirements for selected seminars in the curriculum.

**Note:** Open to Physical Therapy majors only.

**PT 660H. Graduate Physical Therapy Seminar H: Cardiovascular Wellness Clinic Experience. 1 Unit**

**Prerequisite(s):** BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.

This elective provides mentored clinical experience for students in the area of cardiovascular wellness. The student will design and implement an evaluation of a volunteer client in a cardiovascular wellness program, develop an individualized plan of care, and monitor the impact of the intervention. A written comprehensive case report will analyze the impact of the interventions on the cardiovascular well being of the client.

**Note:** Open to Physical Therapy majors only.

**PT 660J. Graduate Physical Therapy Seminar IJ: Adv. Biomechanics I. 2 Units**

**Prerequisite(s):** BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.

**Corequisite(s):** PT 624, PT 625, PT 626, PT 636, PT 640, PT 646

**Term Typically Offered:** Fall, Spring

This elective is designed to prepare students to run a gait analysis clinic. The course covers the topics of assessment of balance, lower extremity strength assessment, special tests, and running analysis from both the research “gold standard” as well as the clinically feasible perspective with a particular focus on running.

**Note:** Open to Physical Therapy majors only.

**PT 660K. Graduate Physical Therapy Seminar 1K Adv. Biomechanics II. 2 Units**

**Prerequisite(s):** BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 632, PT 634, PT 636, PT 638, PT 624, PT 625, PT 626, PT 640, PT 696J

**Corequisite(s):** PT 627, PT 644, PT 645, PT 648, PT 669, PT 662

This elective is designed to prepare students to run a gait analysis clinic in the biomechanics laboratory. The course is one unit of lecture and one unit of lab, and covers the topics of assessment of balance, lower extremity strength assessment, special tests, and running analysis from both the research “gold standard” as well as the clinically feasible perspective with a particular focus on running.

**Note:** Open to Physical Therapy Majors only.
PT 665. Musculoskeletal Patient Management III.  3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669, PT 695A. Corequisite: PT 663, PT 664, PT 668, PT 690.
Term Typically Offered: Fall, Spring

This course builds on the foundational intervention techniques established for management of the patient with musculoskeletal dysfunction in PT 625 and PT 645. It will address additional manual therapy skills and students will apply their developing skills under faculty supervision to patients referred from the Student Health Center. Students will be responsible for patient management of a case load including accurate documentation and submission of patient records to the Student Health Center.

Note: Open to Physical Therapy Majors only.

PT 668. Health Care Delivery in Physical Therapy II.  2 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 662, 669 and 695A.
Corequisite(s): PT 663, PT 664, PT 665, PT 680, PT 690.
Term Typically Offered: Fall, Spring

In this course, students will have professional practice behavior expectations and requirements previously introduced in other courses reinforced through the review of the American Physical Therapy Association documents: the Standard of Practice for Physical Therapy and the Code of Ethics, as well as the State of California’s Physical Therapy Practice Act. Additionally, students will hear from other health care professionals on their expectations of the physical therapist’s role on a health care team.

Note: Open to Physical Therapy majors only.

PT 669. Psychosocial Issues in Physical Therapy.  1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662.
Term Typically Offered: Fall, Spring

This course examines psychological and social impact of and reactions to illness and physical disability. Explores elements of the psycho-social dynamics related to disability with a focus on adjustments required of the disabled and the provider. The course addresses social, cultural, personal, and familial factors which impact comprehensive rehabilitation in the clinical setting. Attention will be placed on interpersonal relationships between patients, family, health care providers, and society.

Note: Open to Physical Therapy majors only.

PT 680. Graduate Physical Therapy Seminar II.  1 Unit
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 662 and 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668, PT 690.
Term Typically Offered: Fall, Spring

This course, presented just prior to the final clinical internships, will review student's experiences in the curriculum and promote reflection on the professional practice of physical therapy. The course will review professional core values and expectations for clinical internships. The course will also review portfolio requirements to determine students' readiness to proceed into final internships. In addition, students will be expected to develop five year personal professional development plans.

Note: Open to Physical Therapy Majors only.

PT 689. Doctoral Project Proposal.  1 Unit
Corequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, and PT 646
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662, and PT 669
Term Typically Offered: Spring only

The Doctoral Project Proposal must demonstrate students' understanding of the application of current evidence-based practice to physical therapist practice in a multicultural and complex health care environment. The case report proposal and oral defense are the final requirements for Advancement to Candidacy in the Doctor of Physical Therapy program. The 3000-word minimum case report completes the Writing Enriched Curriculum began in PT608 for fulfilling the Graduate Writing Assessment Requirement (GWAR) in the DPT program.

Note: Graduate Writing Intensive (GWI) course that is part of the Writing Enriched Curriculum (WEC) of the program; Open to Physical Therapy Majors only.

Credit/No Credit

PT 690. Doctoral Project/Culminating Experience.  3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 663, PT 664, PT 665, PT 668, PT 669, and PT 695A
Term Typically Offered: Fall, Spring

The Doctoral Project/Culminating Experience may include evidence-based practice projects, clinical research projects, or case reports consistent with the Chancellor's Office Executive Order. Culminating events must demonstrate students' understandings of the application of current evidence-based practice in a multicultural and complex health care environment. They must be of sufficient rigor to ensure students' demonstrations of critical and independent thinking and abilities to interpret the research literature and apply to current physical therapist practice.
PT 695A. Clinical Experience I. 6 Units
**Prerequisite(s):** BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 669 and 689.
**Term Typically Offered:** Fall, Spring, Summer

The first full-time clinical experience in the Doctor of Physical Therapy (DPT) program curriculum totals 12 weeks of clinical education in an assigned clinical setting under the direct supervision of a licensed physical therapist. Students improve and refine evaluation and treatment abilities developed during their first two academic years and integrate knowledge and skills in a selected variety of clinical settings.

**Note:** Open to Physical Therapy majors only who have successfully completed the first five semester of the DPT curriculum.

Credit/No Credit

PT 695B. Clinical Experience II. 6 Units
**Prerequisite(s):** BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 669, 689, 663, 664, 665, 668, 690 and 695B.
**Term Typically Offered:** Fall, Spring, Summer

The second full-time clinical education experience in the Doctor of Physical Therapy (DPT) program curriculum totals 12 weeks of clinical education in an assigned clinical setting under the direct supervision of a licensed physical therapist. Students improve and refine patient management skills and abilities developed during their first seven semesters.

**Note:** Open to Physical Therapy majors only who have successfully completed the first seven semesters of the DPT curriculum.

Credit/No Credit

PT 695C. Clinical Experience III. 6 Units
**Prerequisite(s):** BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 669, 689, 663, 664, 665, 668, 690, 695A, and 695B.
**Term Typically Offered:** Fall, Spring, Summer

The third full-time clinical education experience in the Doctor of Physical Therapy (DPT) program curriculum totals 12 weeks of clinical education in an assigned clinical setting under the direct supervision of a licensed physical therapist. Students improve and refine patient management skills and abilities developed during their first eight semesters.

**Notes:** Open to Physical Therapy majors only who have successfully completed the first eight semesters of the DPT curriculum.

Credit/No Credit

PT 695J. Graduate Physical Therapy Seminar IJ Adv. Biomechanics I. 2 Units
**Prerequisite(s):** BIO 633, PT 600, 602, PT 608, PT 630, PT 604, PT 606, PT 614, PT 618, PT 620, PT 622, PT 632, PT 634, PT 636, PT 638, PT 624, PT 625, PT 626, PT 640, and PT 646
**Corequisite(s):** PT 627, PT 644, PT 645, PT 648, PT 669, and PT 662

This elective is designed to prepare students to run a gait analysis clinic in the biomechanics laboratory. The course is one unit of lecture and one unit of lab, and covers the topics of assessment of balance, lower extremity strength assessment, special tests, and running analysis from both the research “gold standard” as well as the clinically feasible perspective with a particular focus on running.

**Note:** Fall semester only

Credit/No Credit

Doctor of Physical Therapy

Total units required for Doctorate: 104-113

Program Description

Physical Therapy at Sacramento State is one of several professional curricula in the College of Health and Human Services. The program complements others in the College and provides opportunities for scholarship, instructional collaboration, and interaction.

The doctoral curriculum of 3 years, including summers, encompasses didactic instruction, laboratory experience, and clinical education. The clinical component is thirty-six weeks of full-time, off-campus clinical internships.

Admission Requirements

To be eligible for admission consideration, students must meet the following criteria:

- Attain a baccalaureate degree from an accredited college or university prior to enrollment in the program;
- Eligible for admissions as a graduate student in good standing;
- Complete nine of the eleven prerequisite courses by the application deadline. The two remaining courses must be completed in the Spring and/or Summer semester (a maximum of one of these course may be completed during the summer);
- Complete a minimum 50 total Observation hours (work/volunteer experience) observing licensed physical therapists at work. Please check the PTCAS program page or the Departmental website to see the current application cycle requirements on inpatient and outpatient setting minimums, if any;
- Three letters of recommendation, one from a college professor and two from licensed physical therapists;
- GRE taken within five years of application.

Admission Procedures

Submit the following applications:

1. Physical Therapist Centralized Application Service (PTCAS) online application by the listed deadline;
2. CSU, Sacramento's Department of Physical Therapy (DPT) Supplemental Application, by the listed deadline.

Both applications are accessible via the department website. Following the initial screening, the top 100 applicants will be invited to interview and to submit a Cal State Apply application.

Applicants will submit the following requirements with their PTCAS application:

- Official transcripts from all colleges and universities that you have attended.
- Verification of completing a minimum 100 total hours of work/volunteer experience in at least one "Inpatient" and one "Outpatient" setting. Each setting must have at least twenty-five (25) hours of exposure. All PT experience hours must be completed and verified by the deadline.
- Three letters of recommendation, two from U.S. licensed physical therapists and one from a college professor.
• Graduate Record Examination (GRE) scores taken within five years of applying to the DPT program using code: 7588.
• Applicants who do not possess a baccalaureate degree from a post-secondary institution where English is a principal language must take the TEST of English as a Foreign Language (TOEFL). Submit TOEFL scores with your PTCAS application.
• Applicants who previously attended another professional entry-level physical therapy program must submit a letter from the director of the previous physical therapy program designating their academic standing (if applicable).

Admission is granted on a competitive basis. Meeting the admission requirements does not guarantee acceptance into the DPT program.

Selection Procedures
Application materials are reviewed by the DPT Admissions Committee. During the first screening applications are reviewed for the prerequisite coursework GPA, recommendation forms from two licensed physical therapists and one academic professional, GRE scores, volunteer hours, and additional background criteria. Based on the results of this first screening, the top applicants will be invited for a panel interview. The top thirty-two applicants along with alternates will be notified of their status within two weeks of the final interviews.

Additional Information
Health Requirements
Students admitted to the graduate program in the Department of Physical Therapy are required to have specified immunizations by the Student Health Center or a private physician prior to any clinical participation. Complete information on health requirements will be provided to incoming students.

Costs and Fees
In addition to University tuition and fees, students can be expected to incur costs of approximately $1,800 per year for books, and supplies. Students are required to assume responsibility for transportation and housing costs for clinical internships which may be anywhere in a contracted site in California.

Health Insurance, Transportation Schedules, CPR Certification, and Background Screens
All students accepted into the graduate program in the Department of Physical Therapy must provide their own health insurance and transportation to clinical facilities. Major medical health insurance is mandatory prior to beginning clinical experiences. CPR certification (Basic Adult and Pediatric for healthcare providers) must be maintained according to the requirements of the American Heart Association or American Red Cross. Students will be required to complete a criminal background check prior to clinical placements. A positive criminal history may limit or preclude student participation in the clinical courses.

Required Prerequisite Courses (41-42 units)
Prerequisite coursework must have been completed at an accredited college or university with a minimum grade of "C" or better.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td></td>
<td>Prerequisite Courses Required for enrollment consideration (41-42 Units)</td>
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<td>Human Anatomy with Lab 1</td>
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<td>Select one of the following:</td>
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<td>BIO 22</td>
<td>Introductory Human Anatomy</td>
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Minimum Units and Grade Requirement for the Degree
Units Required for the DPT: 104-113

Minimum Cumulative GPA: 3.0; students must earn a grade of "B" in all courses taken in the Doctor of Physical Therapy Program.

Advancement to Candidacy
Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure may begin as soon as the classified graduate student has:

• removed any deficiencies in admission requirements and achieved classified status;
• successfully completed all courses with a grade of "B" or higher in the first 4 terms with a minimum of 3.0 ("B") overall grade point average in all DPT graduate level coursework;
• passed (with a grade of "B" or higher) a Graduate Writing Intensive (GWI) course (PT 608) and
• passed the faculty candidacy assessment.

Program Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>First Fall Semester (16 Units)</td>
<td>BIO 633</td>
<td>Human Gross Anatomy for Physical Therapists</td>
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<td>PT 600</td>
<td>Pathokinesiology</td>
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<td></td>
<td>PT 602</td>
<td>Evidence Informed Practice I</td>
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<td></td>
<td>PT 608</td>
<td>PT/Patient/Professional Interactions</td>
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<td>PT 630</td>
<td>Pathophysiology</td>
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<td>First Spring Semester (16 Units)</td>
<td>PT 604</td>
<td>Principles of Human Movement</td>
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<td>PT 606</td>
<td>Therapeutic Measurements and Techniques</td>
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<td>Neuroscience for Physical Therapy</td>
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<td>PT 618</td>
<td>Foundations for Patient Management</td>
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<td>PT 620</td>
<td>Physical Therapy Interventions I</td>
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<td>PT 622</td>
<td>Evidence Informed Practice II</td>
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<td>First Summer Semester (8 Units)</td>
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<td>Pharmacology for Physical Therapists</td>
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<td>PT 634</td>
<td>Diagnostic Imaging for Physical Therapy</td>
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<td>PT 636</td>
<td>Geriatrics/Gerontology for Physical Therapists</td>
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<td>PT 638</td>
<td>Health, Wellness and Ergonomics in Physical Therapy</td>
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<td>Second Fall Semester (16 Units)</td>
<td>PT 624</td>
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<td>PT 625</td>
<td>Musculoskeletal Patient Management I</td>
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<td>PT 626</td>
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<td>PT 640</td>
<td>Physical Therapy Interventions II</td>
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<td>PT 646</td>
<td>Acute Care and Cardiopulmonary Physical Therapy</td>
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<td>Physical Therapy Educator</td>
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<td>PT 648</td>
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<td>PT 660D</td>
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<td>PT 662</td>
<td>Differential Diagnosis in Physical Therapy</td>
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<td>Psychosocial Issues in Physical Therapy</td>
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<td>PT 689</td>
<td>Doctoral Project Proposal</td>
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<td>Second Summer Semester (6 Units)</td>
<td>PT 695A</td>
<td>Clinical Experience I</td>
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<td>Third Fall Semester (17 Units)</td>
<td>PT 660C</td>
<td>Graduate Physical Therapy Seminar C: Research</td>
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PT 660E Graduate Physical Therapy Seminar IE: NeuroPediatric Laboratory 2
PT 660F Graduate Physical Therapy Seminar IF: Adult Neuromuscular Laboratory 2
PT 663 Integumentary Patient Management 2
PT 664 Neuropediatric Patient Management 2
PT 665 Musculoskeletal Patient Management III 3
PT 668 Health Care Delivery in Physical Therapy II 2
PT 690 Doctoral Project/Culminating Experience 3

Third Spring Semester (6 Units)
PT 695B Clinical Experience II 6

Third Summer Semester (7 Units)
PT 680 Graduate Physical Therapy Seminar II 1
PT 695C Clinical Experience III 6

Total Units 113

1 Elective Course. A minimum of 2 elective units is required.

Public Health

Department of Public Health

Program Description

Students pursue a Public Health concentration leading to a degree with specialization and job skills applicable to one of three professional areas of study: community health; healthcare administration; or occupational health and safety. The faculty supports focused academic preparation in each concentration to prepare Public Health program graduates for success in their chosen professional field.

The field of Public Health includes a wide variety of agencies, professionals and programs that keep people healthy by encouraging healthy behaviors and creating conditions that support human health. Public Health has three primary aims: to Prevent injury and illness, Protect the health of the public, and Promote healthy behaviors, policies, institutions, and infrastructure. These aims are achieved using methods that embody the professional values of prevention, health equity, social justice, evidence-based science, and community problem-solving.

Students can expect to be involved, via classroom and field experiences, in areas that address significant issues within a selected concentration. Examples include health program planning, health communication strategies, community engagement, health care costs, quality improvement, organizational development, injury and illness prevention, health management, workplace safety, epidemiology, research methods, and many other topics related to modern Public Health practice.

Students interested in pursuing advanced degrees in the Public Health will find that the BS program provides an excellent foundation for graduate education, including a Master of Public Health or similar graduate program related to the concentration area.

The Public Health Bachelor of Science program at Sacramento State is a highly sought after degree. Due to the large number of applications, the program has pre-major requirements that must be met before admission to the major can be granted. Students wishing to become Public Health majors must complete a series of required lower division courses and submit an Eligibility Form that documents successful completion of the pre-major requirements in order to gain admission to the program. Check the Department website (https://www.csus.edu/college/health-
human-services/public-health/impaction.html) for requirements and recommended timing. It is highly recommended that interested students speak with the Public Health Academic Advisor in the CHHS Student Success Center.

**Degree Programs**

BS in Public Health (Community Health Education) (p. 753)

BS in Public Health (Health Care Administration) (p. 755)

BS in Public Health (Occupational Health and Safety) (p. 756)

Master of Public Health (p. 758)

Minor in Occupational Health and Safety (p. 760)

**Special Features**

- A key feature of the program involves the diversity of the field experiences available. Students may select from state, county, city, or local health and safety related agencies, hospitals, as well as any private voluntary not-for-profit agency. This on-site experience continues to be a valuable professional experience that may lead to employment.

- Employment opportunities can be identified in any of the school/community health/safety/health care related programs, as well as in the private sector. Employment opportunities often evolve from the networking that develops naturally from students’ field experiences.

- Because of the unique location of the University in the state capital, students majoring in Public Health benefit from professional health resources of numerous state and local health agencies that include, but are not limited to the Sacramento County Department of Health and Human Services, California State Departments of Health Services, Mental Health, Aging and Alcohol and Drug Abuse. A variety of health/safety related agencies provide opportunities for field work experiences, internships, part-time, and summertime employment.

- The faculty consists of experts with specialized preparation in the Public Health field. Our full-time faculty is augmented by the use of adjunct instructional staff selected from the above mentioned Public Health agencies.

**Career Possibilities**

Public Health comprises an enormous range of possible career pathways and areas of application. Below is a sample of the common Areas of Expertise and related job titles that program graduates could pursue (note that some options listed below may require training additional coupled with a degree in Public Health):

**Chronic Disease:** Health Educator, Health Program Director, Behavioral Scientist, Public Health Dentist

**Disaster Response:** Emergency Preparedness Specialist, U.S. Public Health Service Member

**Drug Safety:** Clinical Researcher, Pharmacist, Biostatistician, Regulatory Affairs Specialist

**Environmental Health:** Toxicologist, Hydrologist, Environmental Engineer, Hazardous Waste Inspector

**Food Safety & Nutrition:** Consumer Safety Officer, Food Scientist 

**Global Health:** Peace Corps Volunteer, Genetics Researcher, Entomologist, Translator, Ethnographer

**Health Administration:** Health Commissioner, Medical Director, Hospital Administrator

**Health Communication:** Journalist, Communications Director, Social Marketer 

**Health Disparities:** Minority Health Director, Patient Navigator, Community Organizer

**Health Education:** Health Teacher, Professor, Health Education Coordinator, Worksite Wellness Director

**Infectious Disease:** Epidemiologist, Medical Offer, Public Health Nurse, Public Health Veterinarian

**Maternal & Child Health:** Health Administrator, Home Visit Nurse, Community Health Worker, Nutritionist

**Mental Health:** Mental Health Researcher, Public Health Social Worker, Behavioral Health Coordinator

**Nonprofit Management:** Grant Writer, Development Director, Program Officer 

**Occupational Safety:** Industrial Hygienist, Occupational Safety Specialist, Sanitarian/Safety Inspector

**Public Health Policy & Law:** Policy Analyst, Health Economist, Public Health Attorney, Consumer Advocate

**Public Safety:** Injury Prevention Specialist, Emergency Medical Services Director, Forensic Pathologist

**Quality Improvement:** Program Evaluator, Informatics Specialist, Patient Safety Specialist, Health Facility Surveyor

**Contact Information**

Michael D. Mink, Chair

Andrew Haff, Administrative Coordinator

Solano Hall 3002

(916) 278-6441

Department of Public Health Website (https://www.csus.edu/college/public-health/)

**Faculty**

**PUBH 50. Healthy Lifestyles.** 3 Units

**General Education Area/Graduation Requirement:** Understanding Personal Development (E)

**Term Typically Offered:** Fall, Spring

Examines the concepts of: health and wellness; the determinants of health and wellness; and the concept of self-responsibility for health and wellness. These health and wellness concepts shall be applied to the areas of: mental wellness, nutrition, fitness, human sexuality, and drugs. The lecture/discussion format provides for a sharing of views regarding the integrated concepts of health that emphasizes the physical, mental, emotional, social, spiritual, and environmental factors that influence an individual’s health status.
PUBH 98. Health Science ProSeminar. 3 Units
Term Typically Offered: Fall, Spring

Potential and beginning Health Science students become oriented to the Health Science discipline. They will acquire and develop the knowledge and understanding needed to fulfill the Health Science major learning outcomes. Students will develop their individual learning plans designed to assure fulfillment of the Health Science major, General Education, and University graduation requirements.

PUBH 100. Fundamentals of Safety and Health. 3 Units
Prerequisite(s): must be a Public Health or a Fire Service Management major or minor to enroll in this class
Term Typically Offered: Fall, Spring

Explores global and national issues in occupational and non-occupational safety and health. Subjects include motor vehicle, consumer, workplace, fire, school, and home safety. Examines concepts and principles related to the cause, control, and mitigation of unintentional injuries and illnesses. Emphasizes the development, implementation, and integration of effective safety and health program strategies in the prevention and control of loss.

PUBH 106. Occupational Health. 3 Units
Prerequisite(s): Public Health majors or minors only, or instructor permission.
Term Typically Offered: Spring only

Concepts of occupational health as they pertain to appraising and controlling occupational health hazards, including occupational diseases, chemical, biological, and physical agents. Discusses techniques for the recognition, evaluation, prevention, and control or occupational health hazards.

PUBH 107. Occupational Safety. 3 Units
Prerequisite(s): Public Health majors or minors only, or instructor permission.
Term Typically Offered: Spring only

Examines common hazards and problems encountered in the workplace, including concepts and principles related to the control and mitigation of occupational safety hazards. Emphasizes the development, implementation, and integration of effective occupational safety and health program components.

PUBH 108. Occupational Health and Safety Laws and Regulations. 3 Units
Prerequisite(s): Public Health majors or minors only, or instructor permission.
Term Typically Offered: Fall only

Overview of regulatory agencies involved in occupational health and safety and their functions in the enforcement of regulation and/or compliance of safety laws. Special emphasis on Cal/OSHA. Other topics: application of surveillance, research, control technology, and trained personnel to maintain compliance. Recognizes that strategies to achieve a safe workplace includes an analysis of economic and employment impacts on the employer.

PUBH 109. Cause and Control of Occupational Loss. 3 Units
Prerequisite(s): Public Health majors or minors only, or instructor permission.
Term Typically Offered: Fall only

Study of the characteristics, causes, and control of occupational loss; influence of the work environment and system structure on incident outcomes; and analysis of occupational injuries and illnesses through the application of incident investigation and system safety techniques. Course will use occupational injuries and illnesses to focus on the process of problem identification and analysis, including the development and implementation of control measures.

PUBH 110. Issues in Occupational Health and Safety. 3 Units
Prerequisite(s): PUBH 100 or instructor permission
Term Typically Offered: Fall, Spring

Examines current and emerging issues in occupational health and safety, including historical, philosophical, and conceptual factors that serve as a basis for predicting, understanding, and resolving occupational health and safety issues. Examples include: Issues in high hazard industries, special populations at risk, emerging technologies, occupational hazards, and traumatic injuries.

PUBH 112. Disease Prevention. 3 Units
Prerequisite(s): Public Health majors or minors only, or instructor permission
Term Typically Offered: Fall, Spring

Surveys the current methods of promoting high level wellness through a preventive medicine approach for the promotion of more enjoyable and productive living. Attention directed toward the specific methods of promoting personal health through various current methodologies including the "holistic health" movement. Meets the needs of major students as well as those in allied fields such as nursing, social work and other interested students.

PUBH 114. Human Ecology and Health. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Emphasizes the social and natural environmental influences that have a direct impact upon the health of the individual. Primary consideration is directed to an analysis of health as influenced by a person's interaction with his/her environment.

PUBH 116. Public Health Policy, Management & Administration. 3 Units
Prerequisite(s): Must be a Public Health, Health Sciences, or Gerontology major or minor or admitted by permission of instructor
Term Typically Offered: Fall, Spring

In Public Health Policy, Management and Administration we will build an understanding of: how public health systems are structured and managed; how public health policy is shaped and implemented; and the reciprocal relationship between culture, context, and economics and public health policies and systems. We will compare and contrast public policies, systems and management at local, national, and global levels.
PUBH 117. Global Health.  3 Units  
**Prerequisite(s):** Public Health majors or minors only, or instructor permission  
**Term Typically Offered:** Fall, Spring  
Introduction to the globalization of public health and the critical health issues facing all citizens of the world, with special emphasis on health concerns of developing countries. Topics include global malnutrition, primary health care, maternal and child health, international environmental health, comparative health care systems, epidemiology and international health threats, and sustainable health and development programs undertaken by nongovernmental organizations.

PUBH 118. Introduction to Public Health.  3 Units  
**Prerequisite(s):** Must be a Public Health major or minor  
**Term Typically Offered:** Fall, Spring  
The course introduces students to a range of topics, issues, methods, approaches, and frameworks to help understand current public health issues, systems and areas of practice. This course explores the ways in which public health practice prevents harm and promotes and protects health and well-being of people, communities and their environments.

PUBH 119. Community Health Promotion.  3 Units  
**Prerequisite(s):** Must be a Public Health major or minor with a minimum "C" grade or better in PUBH 118 or have instructor permission  
**Term Typically Offered:** Fall, Spring  
In this course, we will explore the theoretical constructs of community, community building, community organizing and community-based participatory action research as levers to address social determinants of health to promote individual and community health and well-being. Emphasis on developing effective community health promotion materials, strategies and advocacy activities.

PUBH 122. Health Psychology.  3 Units  
**Prerequisite(s):** Must be a Public Health or Child Development major or minor  
**Term Typically Offered:** Fall, Spring  
Introduction to behavioral and social factors which influence health and illness. Explores the causes of premature death, the relationships between personality and health, and the development of health problems. Includes an overview of psychological principles in behavioral medicine, physiological foundations of health psychology, the role of emotions in immune function, and topical theories of, techniques for, and research on how psychology can help people live longer, healthier lives.

PUBH 124. Ethical Considerations in Public Health.  3 Units  
**Prerequisite(s):** WPJ score of 80 or above, or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL; or WPJ score of 70/71 + co-enrollment in ENGL 109X  
**General Education Area/Graduation Requirement:** Writing Intensive Graduation Requirement (WI)  
**Term Typically Offered:** Fall, Spring, Summer  
This course examines ethical issues related to public health practice, policy, and research. Questions of autonomy, liberty, individual rights, power, coercion, social justice, discrimination, stigma, community, paternalism, and the common good are the basis of ethical challenges in public health. Public health ethical considerations in health promotion, health policy, healthcare, and issues of safety where people work, live and play will be the focus both domestically and globally. Students will develop an analytical methodology to apply to public health work.  
**Note:** Students must be eligible to take a writing intensive course.

PUBH 130. Alcohol and Other Drugs.  3 Units  
**General Education Area/Graduation Requirement:** GE AREA D  
**Term Typically Offered:** Fall, Spring, Summer  
Various aspects of drug usage will be studied with emphasis on the role of health education in reducing abuse. This course is designed to explore contemporary issues related to alcohol and other drugs. The course will examine the physiological, psychological, social, and cultural impact of licit and illicit drugs.

PUBH 134. Understanding Human Sexuality.  3 Units  
**General Education Area/Graduation Requirement:** GE AREA D  
**Term Typically Offered:** Fall, Spring  
This course is designed to explore gender and social issues associated with human sexuality. The course will examine the impact of physiological, psychological, social, and cultural differences and similarities on the sexual health of diverse groups. The course will explore issues related to age, ability/disability, sexual identity, sexual myths, misconceptions, gender and gender expression.

PUBH 136. School Health Education.  2 Units  
**Prerequisite(s):** CPR training; may be taken concurrently.  
**Term Typically Offered:** Fall, Spring, Summer  
Provides teacher candidates, social workers, and nurses an understanding of the educational methods, processes, and content of the scope of health education as provided in the Framework for Health Instruction of the California State Department of Education. Offers an understanding of current problems related to personal, family and community health. General theories and organization for teaching health education will be discussed. Meets the requirement for teacher candidates under the SB2042.  
**Note:** Not open to lower division students.

PUBH 144. Community Health Planning and Evaluation.  3 Units  
**Prerequisite(s):** PUBH 118, PUBH 148; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X; or instructor permission; restricted to Public Health majors and minors.  
**Term Typically Offered:** Fall, Spring  
Introduces students to the process and practice of program planning and evaluation. Examines the social and physical determinants of health, the impact of the community structure on health status; and, the influence of personal health behavior on community health education practice. These concepts shall be applied in the planning, implementation, and evaluation of health education services.

PUBH 147. Health Data Analysis.  3 Units  
**Prerequisite(s):** STAT 1, Public Health major or instructor permission.  
**Term Typically Offered:** Fall, Spring  
Introduction to methods and statistical practices used in the health sciences. Emphasis on the methods of collection, analysis, interpretation, and presentation of health data. Conceptual learning will be facilitated by sessions using computational software.
PUBH 148. Epidemiology. 3 Units
Prerequisite(s): STAT 1 or instructor permission; Public Health or Biological Sciences major or minor.
Term Typically Offered: Fall, Spring, Summer

Designed to offer cognitive insights into community health epidemiology. Provides understanding of the study of the distribution and determinants of communicable, infectious and chronic disease, and of injuries in the human population.

PUBH 150. Aging and Health. 3 Units
Prerequisite(s): Student must be admitted to the Public Health, Kinesiology, or Gerontology major or minor, or have instructor permission to enroll in this course.
Term Typically Offered: Fall, Spring

Designed to introduce students to the basic aging and health concerns of older people and to broader issues of aging, health and society. Examines the: demography of the aging population, biological theories of aging, social and psychological aspects of aging. Includes such issues as nutrition, drugs, exercise, sexuality, patterns of health services utilization, institutionalization, alternatives to the provision of long-term care in institutions, and dying.

PUBH 151. Introduction to the U.S. Healthcare System. 3 Units
Prerequisite(s): Student must be admitted to the Public Health major or minor, or have instructor permission to enroll in this course.
Term Typically Offered: Fall, Spring

This course presents an overview of the historical, structural, and operational aspects of the nation’s healthcare systems. Students will examine the factors that shape public policy regarding the allocation of health care resources and will gain an understanding of the relationship between healthcare costs, quality of care, and the access to health services. The influence of professional associations, medical technology, and social values in health reform initiatives is discussed.

PUBH 152. Healthcare Systems and Operations. 3 Units
Prerequisite(s): Public Health majors and minors only; or instructor permission
Term Typically Offered: Fall, Spring

Introduce students to a broad range of issues related to managing healthcare organizations. Students will explore areas such as organizational behavior and theory applied to healthcare organizations and the role of administrators in planning, organizing, and overseeing the delivery of healthcare services. Organizational principles and decision-making strategies are applied to functional areas of health administration including finance, human resources, performance improvement, strategic planning, and healthcare information systems.

PUBH 153. Administration of Healthcare Organizations. 3 Units
Prerequisite(s): Public Health majors only
Term Typically Offered: Fall, Spring

Introduction to the study of healthcare administration. Examines the broad field of healthcare administration. Topics include healthcare management, leading healthcare professionals, strategic planning in healthcare, healthcare budgeting and finance, healthcare insurance, healthcare marketing, healthcare information technology, healthcare ethics and law, and healthcare fraud and abuse.

PUBH 154. Healthcare Organizational Behavior. 3 Units
Prerequisite(s): Public Health majors only

The study of healthcare organizational behavior including individual and group dynamics in the context of healthcare settings. Examines the impact of organizational contexts on the behavior of individuals and groups in healthcare organizations. Topics include individual motivation, power and influence, leadership theory, stress in the workplace, decision-making, conflict and negotiation, group dynamics, and change planning in healthcare.

PUBH 155. Introduction to Healthcare Process Improvement. 3 Units
Prerequisite(s): Public Health majors only
Term Typically Offered: Fall, Spring

An exploration of the basic principles and techniques of process improvement in healthcare through a range of topics, including measurement of health care system performance to creating high-quality services that result in organizational improvement and customer satisfaction.

PUBH 195. Fieldwork - Health or Safety. 2 - 4 Units
Prerequisite(s): Permission of faculty advisor, program coordinator and Department chair.
Term Typically Offered: Fall, Spring, Summer

To obtain insights into the practical application of the classroom teachings, fieldwork experiences are required of those preparing for a career in community health education or other areas of health and safety studies.

Note: Submit an application for field work no later than the fourth week of the semester prior to taking HLSC 195. May be repeated once for credit.

Credit/No Credit

PUBH 196. Experimental Offerings in Health Science. 1 - 3 Units
Term Typically Offered: Fall, Spring

Undergraduate seminar designed to provide an in-depth examination and discussion of current topics in the area of personal and community health and safety.

PUBH 196A. Public Health International Study Abroad. 3 Units
Term Typically Offered: Summer only

Students experience a unique culture first-hand and through designed learning experiences, view a different society through the lens of health and wellbeing while expanding one's cultural awareness. Students will understand and compare the organization of different healthcare and the public health systems, and gain insight into how to bring positive change into the systems in which they work.

PUBH 199. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of faculty under whom individual work will be conducted, program coordinator, and Department chair; PUBH 116, PUBH 118, PUBH 119, and PUBH 148 are strongly recommended.
Term Typically Offered: Fall, Spring

Note: Open only to HLSC majors and minors who appear competent to conduct independent work such as

Credit/No Credit
PUBH 201. Behavioral and Social Sciences in Public Health. 3 Units
Prerequisite(s): MPH major or instructor approval.
Term Typically Offered: Fall, Spring

Psychological and social concepts and models relevant to population health are reviewed and critiqued. The course will enable students to describe core theoretical perspectives from each of the social science disciplines of psychology, sociology, and anthropology. Students will learn how to select and apply appropriate social and behavioral models to the design of public health interventions and policies. The course will also cover the critical interrelationships among social determinants, environmental influences, behavioral risk factors, and health disparities.

PUBH 202. Ecological Determinants of Human Health. 3 Units
Term Typically Offered: Fall, Spring

This course will explore both natural and built environments and their impact and consequences on human health. It will examine the social, structural & political determinants affecting ecology, examining social & environmental justice. An emphasis will be placed on unintentional consequences of human interactions with respect to their physical environment. The course will examine current national and international issues in environmental health, including but not limited to anthropogenic climate change, biodiversity loss, ocean acidification, and carbon footprinting.

PUBH 203. Public Health Management and Leadership. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

This course examines the role of management and leadership practices in public health organizations and draws on theory to explore the role of public health leaders in planning, budgeting, staffing, and controlling performance. Students will explore relevant leadership topics such as organization development, employee motivation, and emotional intelligence. The nuances of leading in a government agency are also considered. These topics are set in the context of ethical management and leadership practices.

PUBH 204. Healthcare Systems, Structures, and Policies. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

This course explores health care systems from a macro perspective, including historical development, information technology, healthcare policy and resource allocation, the healthcare workforce, issues surrounding access to healthcare, prevention in healthcare, population health and medicine, various delivery models, and public health's partnership with healthcare. Comparisons are made between the US health care system and other nations in relation to costs and quality.

PUBH 207A. Health Research Methods and Analysis (A). 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Introduces students to the fundamentals of research methodology in applied epidemiology, biostatistics and evaluation research. Students learn quantitative, qualitative, mixed method and participatory approaches to research, as well as ethical behavior in conducting research. Through the mix of texts, articles from the public health literature and course work, students will build skills for conducting research and analysis across a variety of public health applications.

PUBH 207B. Health Research Methods and Analysis (B). 3 Units
Prerequisite(s): MPH major or instructor approval.
Term Typically Offered: Fall, Spring

Explores intermediate and advanced research methods in applied epidemiology, biostatistics and evaluation research. Students learn about tools for describing central tendency and variability in data, methods for performing inference on population parameters via sample data, statistical hypothesis testing and its application to group comparisons, issues of power and sample size in study design, and sampling techniques. Students will also examine common research methods used in program evaluation.

PUBH 220. Health Policy Analysis. 3 Units
Prerequisite(s): MPH major or instructor approval.
Term Typically Offered: Fall, Spring

Students develop strategies for the analysis of health policy issues and learn to communicate effectively in the policy environment. Students gain a local, state, and federal perspective on the historical and political context of health policy and its effects on public health and health care systems, with an emphasis on population health outcomes.

PUBH 221. Strategies for Community Engagement. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Students master the concepts and practices of community engagement, including defining a community, developing community coalitions, forming multi-sector partnerships, social network theory, community-based participatory research, the community engagement continuum of impact, trust, and readiness, models of community change/intervention, community psychology, and community organizing. Students will apply these concepts in a culminating semester project that includes developing a community engagement strategy to address a health issue. Ethics in community engagement underlies the basic approach taken throughout the course.

PUBH 222. Methods of Health Promotion. 3 Units
Prerequisite(s): Master of Public Health major or instructor permission.
Term Typically Offered: Fall, Spring

This course explores theories of health communication, teaching and learning, marketing and advertising, and health behavior to prepare students to design effective health promotion interventions. Students will learn to utilize multiple methods of health promotion, including presentation planning, social marketing, material design, and mediated communication. This course also emphasizes the importance of public engagement and the development of effective communication with public health stakeholders including consumers, community groups, policy makers, health care providers, news media, and the general public.

PUBH 223. Leadership in Public Health Practice. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Examines the role of leadership in public health practice at the program, agency, and community-organization level, with an emphasis on leading community health improvement efforts. Students become aware of their leadership style through assessment and experiential activities, while learning to adapt their approach to leading across multiple settings. Particular emphasis is placed on leading groups and teams in practice settings often encountered by public health professionals.
PUBH 224. Program Planning and Evaluation. 3 Units
Prerequisite(s): Master of Public Health majors or instructor permission.
Field trip.
Term Typically Offered: Fall, Spring
Covers the essential elements of planning, implementing, and evaluating a health promotion program. Aspects of the course include the application of health behavior theory and program planning models, consideration of the social and physical determinants of health, structural influences on personal health status, and the influences of social and health policy on communities.

PUBH 225. Topics in Public Health Seminar. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Summer only
Introduces students to a variety of pressing issues impacting current public health practice and provides an opportunity to explore one or more of those issues in greater depth. Students conduct research using multiple sources on a variety of topics, present findings to the class, and create a solution-centered project with potential applications for practice.

PUBH 295. Public Health Practicum. 3 Units
Prerequisite(s): Master of Public Health major or instructor permission.
Term Typically Offered: Fall, Spring, Summer
Provides students with an in-depth, supervised experience in an applied practice setting. Students explore broad areas of public health practice and conduct supervised field research on a specific area of professional interest. Students further develop expertise in an area of interest by providing consultation and technical assistance to a project or organization engaged in public health work.

PUBH 500. Public Health Capstone. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring
Guides students through a culminating experience in the Master of Public Health program. Seminars discuss and review the integration of core public health concepts and concentration competencies. Students create materials that demonstrate the analysis, synthesis, and intersection of course work, while demonstrating mastery of the broad field of public health.

BS in Public Health (Community Health Education)
Pre-Major Requirements
Freshman or transfer students interested in the Public Health Major are admitted as Pre-Major Public Health students.

To declare the Public Health major, all students are required to complete the following grade and course requirements and submit a Declaration of Major form to the Public Health Department along with transcript copies:

1. An overall GPA of 2.5 and be in good academic standing.
2. Completion of the Pre-Major Required Courses, as identified in the Program Requirements, with a "C" or better in each course. Only first or second attempts will be considered.
3. Completion of more than 45 units.

Additional Information
Repeat Policy: Health Science majors and minors can only repeat Health Science courses one time if they receive less than a "C." Students must meet with their academic advisor before petitioning the department to repeat the course. Refer to the Repeat Policy section of the Sacramento State Catalog for additional information.

Credit by Examination: A student who seeks course credit by examination is to enroll in the course to be challenged. No course may be challenged after the first two weeks of the semester. The instructor of the course will conduct an assessment of the student's readiness for the challenge for credit examination. Refer to Credit by Examination section of the Sacramento State Catalog.

Advising: It will be necessary to work very closely with an advisor to complete the BS degree in a timely manner. Therefore, the Health Science faculty strongly recommends that all Health Science students consult with an advisor prior to enrollment for any course. This procedure should be followed each semester.

Pre-Major Requirements
Freshman or transfer students interested in the Public Health Major are admitted as Pre-Major Public Health students.

To change to a Public Health major, all students are required to complete the follow grade and course requirements and submit a Declaration of Major form to the Public Health Department along with transcript copies:

1. An overall GPA of 2.5 and be in good academic standing.
2. Completion of the Pre-Major Required Courses with a "C" or better in each course. Only first or second attempts will be considered.
3. Completion of more than 45 units.

Additional Information
Repeat Policy: Public Health majors can only repeat Public Health courses one time if they receive less than a "C." Students must meet with their academic advisor before petitioning the department to repeat the course. Refer to the Repeat Policy section of the Sacramento State Catalog for additional information.

Credit by Examination: A student who seeks course credit by examination is to enroll in the course to be challenged. No course may be challenged after the first two weeks of the semester. The instructor of the course will conduct an assessment of the student's readiness for the challenge for credit examination. Refer to Credit by Examination section of the Sacramento State Catalog.

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Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<th>Units</th>
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<tbody>
<tr>
<td>BIO 25</td>
<td>Human Anatomy and Physiology I</td>
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<tr>
<td>BIO 26</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
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<tr>
<td>CHEM 6A</td>
<td>Introduction to General Chemistry</td>
<td>5</td>
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<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
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Required Upper Division Courses (15-16 Units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PUBH 118</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 147</td>
<td>Health Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 148</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 151</td>
<td>Introduction to the U.S. Healthcare System</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 195</td>
<td>Fieldwork - Health or Safety</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Concentrations (27-31 Units)

Select one concentration from the following:

- Community Health Education
- Health Care Administration
- Occupational Health and Safety

Total Units: 58-63

1. Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in Community Health Education (27 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>PUBH 100</td>
<td>Fundamentals of Safety and Health</td>
<td>3</td>
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<tr>
<td>PUBH 112</td>
<td>Disease Prevention</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 114</td>
<td>Human Ecology and Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 116</td>
<td>Public Health Policy, Management &amp; Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 119</td>
<td>Community Health Promotion</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 134</td>
<td>Understanding Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 144</td>
<td>Community Health Planning and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 150</td>
<td>Aging and Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- PUBH 117 Global Health
- PUBH 122 Health Psychology
- PUBH 124 Ethical Considerations in Public Health
- PUBH 130 Alcohol and Other Drugs

Total Units: 27

1. Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements ¹

<table>
<thead>
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<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
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<td>A2</td>
<td>Written Communication</td>
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<td>A3</td>
<td>Critical Thinking</td>
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Area A: Basic Subjects (9 Units)

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<tr>
<td>B1</td>
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<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
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<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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Area B: Physical Universe and Its Life Forms (6 Units)

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<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>0</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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<tr>
<td>B4</td>
<td>Math Concepts</td>
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Graduation Requirements ¹

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<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>0</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
</tr>
</tbody>
</table>

B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.

Area C: Arts and Humanities (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Arts</td>
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</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
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<tr>
<td>C1/C2</td>
<td>Area Course C</td>
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</tbody>
</table>

Area D: The Individual and Society (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>D1</td>
<td>Area D Course</td>
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</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Area E: Understanding Personal Development (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>Area E Course</td>
<td>3</td>
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</table>

Area F: Ethnic Studies (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>F1</td>
<td>Area F Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 39

¹ To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.
If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Note: Students with a declared major of BS in Public Health (Occupational Health and Safety), BS in Public Health (Health Care Administration), or BS in Public Health (Community Health Education) are exempt from the Foreign Language Graduation Requirement.

BS in Public Health (Health Care Administration)

Units required for Major: 58-63
Total units required for BS: 120

Program Description

The academic area of study in Public Health is part of the College of Health and Human Services. Students pursue a Public Health concentration leading to a degree with specialization and job skills applicable to one of three professional areas of study: community health, healthcare administration, or occupational health and safety. The faculty supports the idea of focused academic preparation in each concentration such that Public Health BS graduates will have job appeal in their chosen professional field.

Students can expect to be involved, both in class and field experiences, in areas that deal with significant issues within general Public Health practice and within each concentration, such as health care costs and quality, consumer health issues, alcohol and other drugs, human sexuality, health promotion, health management and administration, unintentional injury causes and prevention, and other personal, occupational, and community health and safety issues.

The Public Health Bachelor of Science program at Sacramento State is a highly sought-after degree. Due to the large number of applications, the program has a pre-major status. Students wishing to become Public Health majors must complete a series of required lower division courses in order to be eligible to declare the major. Students should check the Department website (https://www.csus.edu/college/health-human-services/public-health/) for requirements and speak with the Public Health academic advisor to help with their academic plans.

Note: Students graduating with a BS in Public Health (all concentrations) will not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

Pre-Major Requirements

Freshman or transfer students interested in the Public Health Major are admitted as Pre-Major Public Health students.

To change to a Public Health major, all students are required to complete the follow grade and course requirements and submit a Declaration of Major form to the Public Health Department along with transcript copies:

1. An overall GPA of 2.5 and be in good academic standing.
2. Completion of the Pre-Major Required Courses with a "C" or better in each course. Only first or second attempts will be considered.
3. Completion of more than 45 units.

Additional Information

Repeat Policy: Public Health majors can only repeat Public Health courses one time if they receive less than a "C." Students must meet with their academic advisor before petitioning the department to repeat the course. Refer to the Repeat Policy section of the Sacramento State Catalog for additional information.

Credit by Examination: A student who seeks course credit by examination is to enroll in the course to be challenged. No course may be challenged after the first two weeks of the semester. The instructor of the course will conduct an assessment of the student's readiness for the challenge for credit examination. Refer to Credit by Examination section of the Sacramento State Catalog.

Advising: It will be necessary to work very closely with an advisor to complete the BS degree in a timely manner. Therefore, the Public Health faculty strongly recommends that all Public Health students consult with an advisor prior to enrollment for any course. This procedure should be followed each semester.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Public Health (Lower Division) Cours es (16 Units)</td>
<td></td>
</tr>
<tr>
<td>BIO 25</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 26</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 6A</td>
<td>Introduction to General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Upper Division Courses (15-16 Units)</td>
<td></td>
</tr>
<tr>
<td>PUBH 118</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 147</td>
<td>Health Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 148</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 151</td>
<td>Introduction to the U.S. Healthcare System</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 195</td>
<td>Fieldwork - Health or Safety</td>
<td>4</td>
</tr>
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</table>

Concentrations (27-31 Units)

Select one concentration from the following:

Community Health Education

Health Care Administration

Occupational Health and Safety

Total Units: 58-63

1 Course also satisfies General Education (GE)/Graduation Requirement.

Note: Public Health courses depend upon concentration, permission of the faculty advisor, program coordinator, and department chair.

Concentration in Health Care Administration (27 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
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</tbody>
</table>
General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td></td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area Course C</td>
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</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>The Individual and Society (3-6 Units)</td>
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</tr>
<tr>
<td>D</td>
<td>Area D Course</td>
<td>3</td>
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<tr>
<td>D</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
<tr>
<td>E</td>
<td>Understanding Personal Development (3 Units)</td>
<td>3</td>
</tr>
<tr>
<td>E</td>
<td>Area E Course</td>
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Graduation Requirements

<table>
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<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
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<td>A1</td>
<td>Oral Communication</td>
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</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td></td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
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<td>B5</td>
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<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
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<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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</tr>
<tr>
<td>D</td>
<td>The Individual and Society (3-6 Units)</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
<tr>
<td>E</td>
<td>Understanding Personal Development (3 Units)</td>
<td>3</td>
</tr>
<tr>
<td>E</td>
<td>Area E Course</td>
<td>3</td>
</tr>
</tbody>
</table>
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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PUBH 100</td>
<td>Fundamentals of Safety and Health</td>
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</tr>
<tr>
<td>PUBH 106</td>
<td>Occupational Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 107</td>
<td>Occupational Safety</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 108</td>
<td>Occupational Health Laws and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 109</td>
<td>Cause and Control of Occupational Loss</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three of the following:

- **BIO 39**  Microbiology for Allied Health Students
- or **BIO 139**  General Microbiology
- **ENVS 128**  Environment and the Law
- **ENVS 130**  Environmental Toxicology
- **ENVS 165**  American Environmental History
- **FIN 138**  Principles of Risk Management and Insurance
- **PHYS 5A**  General Physics: Mechanics, Heat, Sound

**Concentration in Occupational Health and Safety (27 - 31 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 6B</td>
<td>Introduction to Organic and Biological Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 20</td>
<td>Organic Chemistry Lecture--Brief Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three courses from the following:

- **BIO 39**  Microbiology for Allied Health Students
- **BIO 139**  General Microbiology
- **ENVS 128**  Environment and the Law
- **ENVS 130**  Environmental Toxicology
- **ENVS 165**  American Environmental History
- **FIN 138**  Principles of Risk Management and Insurance
- **PHYS 5A**  General Physics: Mechanics, Heat, Sound

**Note:** Public Health courses depend upon concentration, permission of the faculty advisor, program coordinator, and department chair.
Graduation Requirements

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
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<tr>
<td></td>
<td>American Institutions: U.S. History</td>
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</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
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General Education Requirements

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
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<tr>
<td>B1</td>
<td>Physical Science</td>
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<td>Life Forms</td>
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<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>3</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
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<tr>
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</tr>
<tr>
<td>D1</td>
<td>The Individual and Society</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
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</tr>
<tr>
<td>D2</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>E1</td>
<td>Understanding Personal Development</td>
<td>3</td>
</tr>
<tr>
<td>F1</td>
<td>Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>39-42</td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2 Required in Major; also satisfies GE.

3 Department offers students a "select from the following option":

- If student chooses to take ENVS 165, they will meet upper division Area D.

Master of Public Health

Total units required for MPH: 42

Program Description

Sacramento State offers a Master of Public Health (MPH) degree with a concentration in Health Promotion, Policy, and Leadership. The MPH degree is offered in a hybrid format to students who are working professionals, providing flexibility to complete the degree in two years (five consecutive semesters). The MPH consists of 42 units incorporating the foundational concepts and competencies of public health as identified by the Council on Education for Public Health (CEPH). The program focuses on preparing public health professionals to develop effective strategies for preventing illness and disease within diverse communities, while increasing the student’s capability in conducting health policy analysis and development. The program is offered in a cohort format to help facilitate teamwork and learning. The program also includes a residency program with three intensive residencies at program start, middle and end. The residency program focuses on leadership development and creating strong personal connections between students, and between students and faculty.

The MPH program has a practice-oriented approach, emphasizing community-based training in coursework. The program's mission is to prepare public health leaders and practitioners to promote, protect, and advocate for the health and well-being of diverse communities at the local, state and global levels. This mission is achieved through the following coordinated efforts: offering core public health content through applied experiences which develop passionate, informed, and practice-based public health professionals; fostering faculty and student engagement in scholarly activities that contribute to the theory and practice of public health using evidence-based applications; and establishing connections between faculty, students and community partners to address public health problems among diverse populations.
Admission Requirements
To be considered for admission to the Master of Public Health program, applicants must meet the minimum qualifications:

- a completed baccalaureate degree from an accredited college or university;
- a minimum GPA of 3.0 from the last undergraduate or graduate degree completed;
- 2 years of full-time, professional work experience in public health or a related field is preferred.

Domestic applicants with foreign documents and international students (F-1 or J-1 visa applicants) must consult the Office of Graduate Studies (http://www.csus.edu/gradstudies/) and International Programs & Global Engagement (http://www.csus.edu/ipge/international-admissions/) for specific application instructions. These students must also submit TOEFL scores; for more information, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

Applicants must submit the following requirement documents to be considered for admissions:

- Completed CalStateApply application;
- MPH Supplemental Application Form;
- Official transcripts from all higher education (unofficial transcripts may be submitted with the application, but official transcripts must be received before matriculation);
- A professional resume or CV;
- Personal statement (essay).

Minimum Units and Grade Requirements
Units required for the MPH: 42

Minimum cumulative GPA: 3.0

Policies and Procedures
- A student must maintain a minimum of a 3.0 GPA in the graduate coursework. Only courses approved by the Program of Study will count toward the MPH degree. It is expected that all courses will be passed with a grade of B or higher in order to count toward the MPH degree. Courses with a grade of C are permitted, as long as the overall GPA is above a 3.00 for the semester, and the course grade of a C is not earned in any course prior to Advancement to Candidacy.
- Students failing to maintain a GPA of 3.0 are automatically placed on academic probation. Students placed on academic probation must meet with the Program Director to discuss steps the student must take to remediate coursework or to address the deficiencies identified by the course instructor.
- MPH program policy related to violations of student conduct, which includes cheating and/or plagiarism is as follows: the first incident of academic dishonesty in the program will result in a zero for the assignment; the second such incident in the program will result in a failing grade for the course; the third such incident in the program will result in dismissal from the MPH program.
- Students must complete the program within 7 years of enrollment in the first MPH program course.

Advancement to Candidacy
Each student must file an application for Advancement to Candidacy for the master’s degree indicating the proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admissions requirements;
- completed at least 17 units in the graduate program with a minimum 3.0 GPA; and
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

Advancement to Candidacy forms are available on the Office of Graduate Studies website (http://www.csus.edu/gradstudies/forms/). Students will complete the form after planning a degree program in consultation with the Graduate Coordinator. The completed form should then be returned to the Office of Graduate Studies for approval.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 202</td>
<td>Ecological Determinants of Human Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 203</td>
<td>Public Health Management and Leadership</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 204</td>
<td>Healthcare Systems, Structures, and Policies</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 207A</td>
<td>Health Research Methods and Analysis (A)</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 207B</td>
<td>Health Research Methods and Analysis (B)</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 224</td>
<td>Program Planning and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 295</td>
<td>Public Health Practicum</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 201</td>
<td>Behavioral and Social Sciences in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 220</td>
<td>Health Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 221</td>
<td>Strategies for Community Engagement</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 222</td>
<td>Methods of Health Promotion</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 223</td>
<td>Leadership in Public Health Practice</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 225</td>
<td>Topics in Public Health Seminar</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 500</td>
<td>Public Health Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Culminating Experience (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 500</td>
<td>Public Health Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Requirements

<table>
<thead>
<tr>
<th>Residency Sessions</th>
<th>Total Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>42</td>
</tr>
</tbody>
</table>

Capstone Project
The program requires that all students complete a culminating experience, called the Public Health Capstone Project, during the last semester before graduation. The goal of the Capstone Project is to assess each student’s (i) mastery of public health concepts and skills, and (ii) ability to integrate and apply these concepts and skills in practice.

PUBH 500 (https://catalog.csus.edu/search/?P=PUBH%20500) is designed to provide a degree of flexibility, such that students can select from the list of program Learning Outcomes in consultation with the instructor. Achievement of these learning outcomes will be documented in the written Capstone Project and certified by the instructor.

To meet these requirements, students choose a public health problem to solve that reflects current health concerns within a specified population.
Students will analyze the problem using applied research and propose a feasible solution that reflects the capabilities of a public health organization. Student products will demonstrate a thorough grasp of the concepts, background, and tools necessary to address the issue through health promotion planning, policy development, leadership, and community engagement.

Residency Sessions

MPH Students are also required to attend three multi-day intensive residency sessions during the program. These sessions are designed to immerse students in leadership development, foster community connections, and facilitate cohesion across cohorts.

Minor in Occupational Health and Safety

Units required for the Minor: 18, all of which must be Public Health courses. There are 12 units of required upper division courses and 6 units of upper division electives.

Program Description

Students can expect to be involved in areas that deal with significant issues within the public health pertaining to occupational health and safety, such as occupational diseases, biological, and physical agents; control, mitigation and management of health and safety hazards; laws and regulations; unintentional injury causes and prevention; analysis and investigation of occupational injuries and illness; and other personal, occupational, and community health and safety issues. The curriculum emphasizes the interdisciplinary nature of occupational health and safety.

The Occupational Health and Safety Minor requirements are achievable and relevant to all disciplines, especially sciences, engineering, environmental studies, health and business. Undergraduate students in any discipline can choose this minor as part of their curriculum. This minor will help students prepare for jobs in various settings such as state and federal agencies, hospitals, manufacturing, construction, insurance, automotive industry, and warehouses, typically in roles such as occupational health and safety specialists, safety managers, safety engineers, EHS specialist, industrial hygienist, safety inspectors and insurance specialists. It will also prepare them for higher studies and research in the area of occupational health and safety.

Admission Requirements

Students need to have an overall GPA of 2.5 or more and be in good academic standing to declare the Minor in Occupational Health and Safety.

Minimum Grade Requirement

All Public Health courses must be completed with a "C" grade or better.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBH 100</td>
<td>Fundamentals of Safety and Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 106</td>
<td>Occupational Health</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 107</td>
<td>Occupational Safety</td>
<td>3</td>
</tr>
</tbody>
</table>

PUBH 108 Occupational Health and Safety Laws and Regulations 3

Additional Upper Division Requirements (18 Units) 6

Select two of the following:

- PUBH 109 Cause and Control of Occupational Loss 3
- PUBH 116 Public Health Policy, Management & Administration 3
- PUBH 118 Introduction to Public Health 3
- PUBH 147 Health Data Analysis 3

Recreation, Parks, and Tourism Administration

College of Health and Human Services

Program Description

The Department of Recreation, Parks and Tourism Administration offers three separate Bachelor of Science degrees, a Master of Science degree, and several Minor and Certificate programs. The department's programs provide students with the skills to manage people, programs, and events in a variety of recreational settings that include city parks and recreation programs, state and national parks, hotels, playgrounds, forests, beaches, health clubs, tourism destinations, recreational therapy programs, and non-profit community centers. Students will also gain an understanding of professional advocacy, ethics, inclusion, and current evaluation procedures applicable in a variety of employment settings.

RPTA students and graduates will find a wide range of internship and job opportunities with public and private agencies in the Greater Sacramento Region, the State of California, and throughout the United States.

Degree Programs

BS in Recreation Administration (p. 772)

BS in Recreation Therapy (p. 774)

BS in Hospitality and Tourism Management (p. 771)

Minor in Non-Profit Management (p. 777)

Minor in Recreation Management (p. 778)

Certificate in Event Planning (p. 775)

Certificate in Natural Resources Administration (p. 776)

Certificate in Non-Profit Administration (p. 776)

Certificate in Outdoor Adventure Administration (p. 776)

MS in Recreation Administration (p. 779)

Accreditation

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Recreation Administration and the Bachelor of Science in Recreation Therapy are also individually accredited by Council on Accreditation of Parks, Recreation, Tourism and Related Professions (COAPRT).
Notice to Students RE: Professional Licensure and Certification
California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features and Fast Facts
• The Sacramento area provides a wide variety of resources to supplement the formal classroom education of students enrolled in the concentrations offered by the Department.
• Sacramento County, the City of Sacramento, and a variety of smaller cities and special districts have numerous park and recreation programs, and facilities.
• The State Capitol offers opportunities to observe state government in operation and numerous state and federal agencies have central or regional offices within the urban area.
• Faculty and students work closely with a variety of natural resource agencies that include: California State Parks, the U.S. Forest Service, Bureau of Land Management, and the National Park Service.
• Students completing necessary coursework in the Recreation Therapy and Recreation and Park Management Concentrations are eligible for both state and national certifications (e.g. CTRS, MPI, CHA, and CPRP).
• California has more National Parks than any other state in the country.
• Both clinical and community based recreation therapy programs provide services to a variety of special populations.
• Leisure businesses of all types abound in the immediate area, and in the Sierra Nevada and California Coastal regions within a 90 mile radius of the campus.
• California is one of the world’s most-visited tourism destinations, and Sacramento provides access to the Central Valley, the mountains, the coast, wine country, and numerous adventure recreation and recreational sporting opportunities.
• The RPTA program at Sacramento State is the oldest COAPRT accredited program in Recreation Administration in California.

Career Possibilities
Recreation Therapist · Recreation Administrator · Event Planner · Conference Center Manager · Campus Recreation Facilities Manager · Recreation Program Planner · Intramural Sports Coordinator · Environmental Interpreter · Hotel Manager · Park Manager · Park Ranger · Outdoor Recreation Specialist · Camp Supervisor · Recreation Resources Manager · Community Center Director · ADA/Inclusion Consultant · Employee Recreation Manager · Fitness Club Manager · Vacation Resort Manager · Ski Resort Manager · Water Park Manager · Amusement Park Manager · Entertainment Facility Manager · Leisure Products · Resort Sales Representative · Recreation Specialist · Recreation Supervisor · Leisure Educator

Contact Information
Samantha Blackburn, Department Chair
Krystle Peay, Administrative Support Coordinator
MaVie Ivashkevich, Administrative Support Assistant
Solano Hall 4000
(916) 278-6752
FAX (916) 278-3866
Department of Recreation, Parks, and Tourism Website (http://www.csus.edu/hhs/RPTA/)

Faculty
BREUNIG, MARY
DAVIS, CHRISTINA
ERICKSON, ELIZABETH
HOFFMAN, JAMIE
HUR, JUNGYUN "CHRISTINE"
JORGENSEN-EASTERLA, LISA J.
KIVEL, B. DANA
LUVAA, ERIK
ROLLOFF, DAVID
SHAW, GREG
SHEPPARD, ANTHONY G.
SHIRSAT, ABHIJEET
New Faculty Member:
JOYNER, LEAH

RPTA 1. Orientation to Recreation, Parks and Tourism Administration. 1 Unit
Term Typically Offered: Spring, Summer
Introduction to the RPTA major with an emphasis on degree options, major advising, referrals to GE for general advising, information about the RPTA undergraduate student association, other local, statewide and national professional associations, scholarship opportunities, the 600-hour volunteer/paid placement prior to the internship, an overview of the internship process. Credit/No Credit
RPTA 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only
A first-year seminar intended to provide students with an introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. This course is designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. The seminar also provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

RPTA 22. Happiness, Quality of Life, and Recreation Over the Lifespan. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
This course focuses on the interrelationship between happiness, positive leisure, recreation, one's personal growth and development, and quality of life. Emphasis is placed on the interplay between psychological, physical, and social factors that affect one's development and lifestyle choices. The course offers a survey of philosophical and scientific concepts linked to happiness and well-being as pertains to important components of the life experience ranging from conception to the end of life.

RPTA 30. Recreation, Parks and Tourism in Contemporary Society. 3 Units
Term Typically Offered: Fall, Spring
Orientation to the nature, scope and significance of the recreation, park and tourism in today's world. Analyzes philosophical and related elements essential to the effective delivery of leisure services, including the role of affective, cognitive and social motivations and outcomes.

RPTA 32. Leadership and Group Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
The purpose of this course is for students to develop an understanding of the theory and practice of leadership in various recreational organizational settings. The course will allow students the opportunity to develop leadership skills through lectures, self-assessments, experiential exercises, class discussions and case studies. Students are exposed to diverse theories and perspectives on leadership and are encouraged to apply critical thinking skills to develop their own working philosophy of the leadership that will serve them in their career contexts.

RPTA 33. Race, Class Gender and Leisure. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Examination of the role of leisure in the social construction of markers of identity across gender, race, class, sexuality and disability; and leisure's role in the construction of institutional oppressions such as racism, sexism, homophobia and discrimination based on class and disability.

RPTA 34. The Outdoor Recreation Experience. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
Encourages the student to identify and demonstrate an understanding of the value, meaning and benefits of outdoor recreation experiences and to explore a variety of outdoor adventure experiences. Outing skills such as trip planning, meal preparation, camp selection and set-up, equipment and clothing, map and compass, hygiene and first aid will be discussed and practiced. Students will also develop an awareness of and appreciation for minimum impact wilderness travel techniques and environmental responsibility and ethics.

RPTA 42. Recreation and Parks: Natural, Cultural, and Heritage Resources. 3 Units
Term Typically Offered: Fall, Spring
Examines the use of natural, cultural, and heritage resources for recreation, tourism and leisure purposes in a variety of settings and under the auspices of various agencies. Includes study of various protected areas and facilities, including parks, forests, museums, and cultural sites and how they are influenced by social trends, conflicting use demands, agency responsibilities, environmental considerations, and fiscal implications.

RPTA 50. Introduction to Rock Climbing. 1 Unit
Term Typically Offered: Fall, Spring
Designed to provide students with the basic knowledge, skills, and techniques of modern rock climbing. Students will learn skills pertaining to indoor top-roping and lead climbing, indoor and outdoor bouldering, and outdoor sport climbing. Students will also learn and discuss outdoor ethics and environmental impact in relation to rock climbing.

RPTA 60. Budgeting for Recreation Services. 3 Units
Prerequisite(s): RPTA major and minors only, or instructor permission.
Term Typically Offered: Fall only
Introduces students to budget topics in Recreation, Parks, and Tourism, through the use of theoretical readings, case studies, and a series of professional speakers. Students will gain a broad understanding of the planning and implementation of the budget process for a leisure service agency, primarily those that are non-profit or tax-supported.
Note: Only one of RPTA 60 or RPTA 61 may be counted for credit

RPTA 61. Cost Management for Hospitality. 3 Units
Prerequisite(s): RPTA major and minors only, or instructor permission.
Term Typically Offered: Spring only
Introduces students to a broad range of topics related to cost management in hospitality, and teaches students to analyze numerical data for decision-making in hospitality operations. Considers systems, techniques, information types, and presentational forms commonly used by hospitality managers. Additional topics include, financial statements and ratio analysis, various pricing methods, types of costs in hospitality and service industries, cost-volume-profit techniques, and the application of standard cost controls used in hospitality.
Note: Only one of RPTA 60 or RPTA 61 may be counted for credit
RPTA 62. Introduction to Recreation Law. 3 Units
Prerequisite(s): RPTA majors and minors only, or instructor permission.
Term Typically Offered: Fall, Spring

Introduces students to legal topics and regulations in Recreation, Parks and Tourism industries. Students are given a practical knowledge of the law, operation of the legal system, contracts, and legal applications to agency management, human rights and personnel. Course uses text book readings, case law from actual published decisions in the field of Recreation law, courtroom visitations, and professional speakers.

RPTA 80. Introduction to Hospitality and Tourism. 3 Units
Term Typically Offered: Fall only

Hospitality and tourism are vitally important to California’s image and economy, and these two related industries are among the world’s top employment providers. This course provides an introductory overview of the broad hospitality and tourism industries, covering several topics, including growth and development, trends and current concerns, and professional employment sectors.

RPTA 82. Introduction to Hospitality and Tourism Law. 3 Units
Term Typically Offered: Fall, Spring

This course provides insight into the laws and regulations governing the hospitality and tourism industries with an emphasis on labor relations and human resources best practices. The course addresses the general concepts of tort, contracts, liability, risk management, employment practices, licensing, and insurance needs. The course also explores the legal issues that today’s industry professionals face such as privacy, labor laws, the common law system for innkeepers and newer hospitality products in the shared economy such as AirBnB or VRBO. Field Trip(s). Field trip(s) may be required.

RPTA 84. Hotel and Lodging Operations. 3 Units
Term Typically Offered: Fall, Spring

This course is designed to provide knowledge of hotel and lodging operations. Students will acquire an understanding of how a variety of lodging types, specifically hotels, operate by detailed examination of the departments common to most lodging properties, including the front office, sales and marketing, housekeeping, maintenance, and others. Additionally, topics relevant to operations like green initiatives and revenue optimization will be discussed in this course. Field Trip(s). Field trip(s) may be required.

RPTA 100. Recreation and Leisure Lifestyle Development. 3 Units
Term Typically Offered: Fall, Spring

Broad general overview of the recreation and leisure movement followed by a specific examination of changing leisure lifestyles and their impact on the individual’s choice of recreation and leisure patterns. Also examine the impact that the choice of leisure lifestyles has on other aspects of the individual’s life as well as the negative effects of restrictive or inadequate leisure involvement.

RPTA 101. Senior Seminar. 1 Unit
Prerequisite(s): RPTA 1 and senior status
Term Typically Offered: Fall, Spring, Summer

Students will focus on identifying potential internships, refining resumes and writing cover letters for securing internships. Students will also complete the RPTA Department Exit Exam.
Credit/No Credit

RPTA 102. Recreation Therapy Professional Practice. 1 Unit
Prerequisite(s): RPTA 1, RPTA 106, RPTA 115, RPTA 116, RPTA 117, RPTA 118 and senior level.
Corequisite(s): RPTA 115, RPTA 116, and/or RPTA 118 may be taken concurrently.
Term Typically Offered: Fall, Spring

This senior level course is intended to build upon a student’s previous coursework in recreation therapy, and link the theoretical foundation with day-to-day practical applications. Students will fine-tune skills and interests in recreation therapy, learn methods for effective networking, and develop interviewing techniques in order to identify appropriate internships and employment opportunities.

RPTA 105. Management in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 30 or instructor permission
Term Typically Offered: Fall or Spring

Analyzes the functions of managers including planning, organizing, staffing, leading and controlling. Also examines basic principles, techniques and tools associated with these functions. Consideration of internal and external environments which influence the managerial process and the manager’s role in various areas of enterprise activity.

RPTA 106. Introduction to Inclusive Recreation and Recreation Therapy. 3 Units
Prerequisite(s): RPTA majors or minors or HLSC majors or minors only, or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Addresses the etiology and nature of common disabling conditions and examines issues of leisure participation and inclusion for underrepresented populations. Topics include: attitudinal barriers, advocacy, normalization, universal design, activity analysis and modification, and legislation. Emphasis on leadership, supervision and organizational development of inclusive and recreation therapy programs.

RPTA 110. Research and Evaluation in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 1 and RPTA 30.
Term Typically Offered: Fall, Spring

Provides students with tools to analyze leisure behavior, interests and the motivational basis of leisure as they apply to the field of recreation and leisure services. Emphasizes applied research techniques including qualitative, descriptive and analytical methods, and program evaluation.

RPTA 115. Recreation Therapy Assessment and Documentation. 3 Units
Prerequisite(s): CHDV 30, PSYC 168, RPTA 30, RPTA 106 and RPTA 117, or instructor permission.
Term Typically Offered: Fall, Spring

Assessment procedures and instruments used to assure competence in assessment of client function in leisure. Documentation, assessment, regulations in different settings (i.e., community hospital, and clinical settings), protocols and development of individual treatment plans. Students are exposed to the Recreation Therapy process (APIE) in a variety of clinical and community settings.
RPTA 116. Recreation Therapy Principles and Practices and the Recreation Therapy Process.  3 Units
Prerequisite(s): CHDV 30, RPTA 30, RPTA 106 and RPTA 117; or instructor permission. RPTA 117 may be taken concurrently.
Term Typically Offered: Fall, Spring

Philosophy and principles underlying the work performed by the recreation therapist are studied including assessment, individual program planning, interpersonal interaction skills, and working with families.

RPTA 117. Recreation Therapy and Contemporary Aspects of Disability.  3 Units
Prerequisite(s): RPTA 106; RPTA 106 may be taken concurrently.
Term Typically Offered: Fall, Spring

In-depth exploration of a variety of disabilities and diseases, including physical disabilities, developmental disabilities, intellectual disabilities, mental health, hearing and vision impairments, and disabilities related to aging. Content will focus on etiology, prognosis, symptomatic conditions, prescription drugs, and recreation therapy interventions. Medical terminology will be covered.

RPTA 118. Recreation Therapy Facilitation Techniques.  3 Units
Prerequisite(s): CHDV 30, PSYC 168, RPTA 30, RPTA 106 and RPTA 117; or instructor permission.
Term Typically Offered: Fall, Spring

Covers basic concepts, methods and techniques associated with the practice of recreation therapy. Students will understand and apply the recreation therapy process through intervention and facilitation methods that are critical to helping clients in health and human service settings. The goal is to assist students in developing the ability to use recreation, leisure and play in recreation therapy programs as interventions in the treatment process.

RPTA 119. Recreation Therapy Management and Advancement of the Profession.  3 Units
Prerequisite(s): BIO 25, CHDV 30, PSYC 168, RPTA 105, RPTA 106, RPTA 115, RPTA 116, RPTA 117 and RPTA 118; or instructor permission.
Term Typically Offered: Fall, Spring

Examination of existing recreation programs in clinical settings (acute care hospitals, rehabilitation centers, state hospitals, skilled nursing facilities, intermediate care facilities, etc.); review of standards and regulations pertaining to recreation programs, development of recreation therapy programs, review of the roles of practitioners in related disciplines. Review of intervention techniques, program organization, management, and advancement of the profession and professional ethics.

RPTA 120. Leisure Education.  3 Units
Prerequisite(s): RPTA 106.
Term Typically Offered: Fall, Spring

History, scope and process of leisure education. A survey of guidance theories and procedures, including assessment techniques, program development, implementation and evaluations. The role of leisure education in diverse leisure delivery systems and with diverse populations. Legal, ethical, and professional aspects of leisure education.

RPTA 121. Innovations in Recreation for Health and Wellness.  3 Units
Term Typically Offered: Fall, Spring

This course provides an introduction to the outcomes and benefits of engagement in recreation, parks, and tourism activities. Examines how play, recreation, and engagement in nature, travel, and social activities contribute to enhancing the health and wellness of individuals and society. Innovative trends and issues will be explored from a holistic health perspective looking at quality of life.

RPTA 122. Perspectives On Leisure.  3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Understanding Personal Development (E), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Basic philosophical, historical, psychological and scientific foundations and developments in leisure and recreation theory; review of the cultural forces, institutions and theories that affect individuals and society.

RPTA 124. The Science of Nature Engagement and Human Health & Wellbeing.  3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (BS)
Term Typically Offered: Fall, Spring

This course examines contemporary and emerging research evidence on human health and wellbeing impacts from nature engagement. It is anecdotally understood that spending leisure time outdoors is beneficial, but public understanding of the science behind this phenomenon is lacking. Areas of scientific literature covered include relevant scientific theories, validity of evidence-based forms of nature engagement, and mechanistic pathways of benefits. Analyzes the scientific research methodologies utilized globally and impacts on equity issues for different population groups access to nature-based activities.

RPTA 125. Leisure, the Individual, and Contemporary Society.  3 Units
Prerequisite(s): Students must have passed the WPE or Eng 109W/E prior to enrollment in RPTA 125
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Provides an understanding of the social science of leisure in contemporary society by examining the philosophical, socio-cultural, ethical, economic, behavioral, political and historical dimensions of leisure; exploration of the interrelationship between individuals, groups, and society in the context of leisure. Course also examines beliefs, values, and social structures, and compares and contrasts them with individual and social influences such as race, ethnicity, gender, gender expression, sexuality, age, economic status and ability.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTA 126</td>
<td>The Science of Play.</td>
<td>3</td>
<td>Fall, Spring, Summer</td>
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<tr>
<td></td>
<td>General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5</td>
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<tr>
<td>RPTA 128</td>
<td>Recreation Services for Diverse, Underserved and Underrepresented Populations.</td>
<td>3</td>
<td>Spring only</td>
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<tr>
<td>RPTA 129</td>
<td>Youth Development in Recreation, Parks &amp; Tourism.</td>
<td>3</td>
<td>Fall only</td>
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<tr>
<td>RPTA 130</td>
<td>Community Sport Programming.</td>
<td>3</td>
<td>Fall, Spring</td>
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<tr>
<td>RPTA 131</td>
<td>Morale Welfare and Recreation (MWR): Military Recreation Services.</td>
<td>3</td>
<td>Fall, Spring</td>
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<tr>
<td>RPTA 132</td>
<td>Campus Recreation.</td>
<td>3</td>
<td>Fall, Spring</td>
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<tr>
<td>RPTA 136</td>
<td>Program and Event Planning in Recreation, Parks and Tourism.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>RPTA 32</td>
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<tr>
<td>RPTA 137</td>
<td>Community Organization.</td>
<td>3</td>
<td>Fall, Spring</td>
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<tr>
<td>RPTA 138</td>
<td>Conference and Meeting Planning.</td>
<td>3</td>
<td>Fall only</td>
<td>RPTA 139</td>
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<tr>
<td>RPTA 139</td>
<td>Field trip(s) may be required.</td>
<td>3</td>
<td>Fall only</td>
<td></td>
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<tr>
<td>RPTA 148</td>
<td>Experiential Education in Outdoor Recreation Settings.</td>
<td>3</td>
<td>Spring only</td>
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**Note:** The course will be a lecture format.

This course introduces students to campus recreation programs. Students will be introduced to theories of student development in these recreational settings; the organizational context and history of recreational programs within a college setting; and the range of programming, facilities, and managerial duties within campus and base recreation. This will provide a great starting point for students preparing for a profession on campus, institutional and/or military recreation, or students wanting to broaden their knowledge in the overall field.

**Prerequisite(s):** RPTA 32.

**Term Typically Offered:** Fall, Spring

The program/event planning process will be described and explained. Relevant principles and methods will be identified. Students will develop a program/event plan for a local organization. Field trips may be required. Field trip(s) may be required.

**Term Typically Offered:** Fall, Spring

Study of institutions and leisure service systems within the community, and the dynamics of community organization practices and actions. The role of the recreation and leisure service practitioner in bringing about community changes. Defining and promoting citizen participation through advisory council membership, survey applications, and public hearing attendance.

**Term Typically Offered:** Fall, Spring

Analyzes this varied, growth industry. Considers the range of conferences and meetings, from small corporate retreats to international conventions. Topics include: the scope of the industry, the role of convention centers, hotel and resort based meeting facilities, organizations that hold meetings and the nature of those meetings, meeting planning and the role of the professional planner and industry related careers. Field trips may be required. Field trip(s) may be required.

**Term Typically Offered:** Spring only

Exposes the students to theoretical and philosophical concepts of experiential education and provides a means through which they can put theory into practice in outdoor recreation settings. Using methods such as demonstrations, observation, presentations, and discussions, the course will explore the history and current trends of experience-based learning.
RPTA 149. Developing and Programming Adventure Experiences. 3 Units
Term Typically Offered: Fall only

Provides students with the working knowledge needed to produce enriching and fulfilling adventure leisure experiences. In order to most effectively aid and assist others in the process of maximizing their leisure experiences, the student of leisure must first know how to maximize these experiences for and within themselves. Therefore, students will be participating in leisure adventure experiences so they can be as effective as possible when developing and programming leisure adventure experience opportunities for others.

RPTA 150. Ecology Of Resource Areas. 3 Units
Term Typically Offered: Fall, Spring

Study of the fundamentals of ecology, silvics, soil science and manipulations of an ecosystem with emphasis on the whole biota as it relates to outdoor recreation areas. Designed to provide an understanding of the scientific basis for and the operational rationale of manipulation of natural resources for a variety of recreation uses.

RPTA 151. Visitor Management in Recreation Areas. 3 Units
Term Typically Offered: Fall, Spring

Visitor safety in recreation areas as it relates to the role and functions of management. Emphasis is given to principles and current legislation in hazard reduction, deviant behavior, liability, law enforcement, and other related topics.

RPTA 152. Law Enforcement for Forest and Park Rangers. 3 Units
Term Typically Offered: Spring only

State, county and federal park rangers and wardens differ from other peace officers in that they are trained to protect visitors and cultural and natural resources on our public lands. This course offers a survey of topics related to the Peace Officer level of rangers across America’s diverse public land systems, with an emphasis on career opportunities in park, forest, and wildlife management.

RPTA 153. Environmental Interpretation. 3 Units
Term Typically Offered: Fall, Spring

Connecting visitors to natural, cultural, and historic resources is the primary focus of this course. Theories, principles and techniques are covered focusing on interpreting park and protected area values to people during their leisure. Personal and non-personal communication techniques will be practiced. Field sites in and around the Sacramento region will be visited to understand the diverse nature of the practice of interpretation. Designed for ranger naturalists, park interpretive staff, teachers, camp leaders, outdoor educators, and recreation program staff.

RPTA 154. Management of Recreation Facilities. 3 Units
Term Typically Offered: Fall only

An introduction to aspects of recreation facility administration for several facility types, including campus recreation facilities, health clubs, community centers, park facilities and aquatic centers. Course topics include administration techniques related to staffing and outsourcing, the roles of the facility manager, analyzing financing sources, best practices in facility maintenance, and issues related to facility design. The course utilizes class discussions, guest speakers and facility site visitations on and off campus.

RPTA 155. Visitor Management in Recreation Areas. 3 Units
Term Typically Offered: Fall, Spring

Visitor safety in recreation areas as it relates to the role and functions of management. Emphasis is given to principles and current legislation in hazard reduction, deviant behavior, liability, law enforcement, and other related topics.

RPTA 156. Administration in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 105.
Term Typically Offered: Fall, Spring

Designed to provide the student with various in-depth perspectives regarding the use of management/administrative process in recreation, parks and tourism.

RPTA 157. Professional Organization Leadership. 3 Units
Prerequisite(s): RPTA 30, RPTA 32, and RPTA 105, or instructor permission
Term Typically Offered: Fall, Spring

This course is designed to introduce students to the historical and philosophical foundations of professionalism, and provide the necessary conceptual and technical competencies to organize and lead a successful professional organization/association. Political, legal and ethical issues will be discussed as well as the functions and roles of professional organizations/associations. The relationship between professionalism and advocacy will be examined.
RPTA 169. Traumatology: An Introduction to Posttraumatic Growth. 3 Units

General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Traumatic and challenging life events occur. Although there are levels and degrees of significance and damage, when these events happen, individual survivors, families, friends, health care professionals and communities are affected. This life science course uses critical experiences and observations, pre-existing assumptions, trauma informed care, neuroscience, genetics and contemporary research to analyze and compare ideas and practices involving current rehabilitation models in an effort to guide survivors toward personal resilience, grit and posttraumatic growth (PTG).

RPTA 178. Human Resources Management in the Hospitality Industry. 3 Units

Prerequisite(s): RPTA 80 or Instructor Permission.
Term Typically Offered: Spring only

Comprehensive study of personnel management in today’s hospitality profession, familiarizing students with many of the functions related to recruiting, selecting, orienting, training, and retaining outstanding lodging industry staff. Additionally, the course familiarizes students with the effects of rising labor costs, increasing competition for quality staff, changing employees attitudes, evolving guest expectations, and a proliferation of new laws that impact human resources policies and activities.

RPTA 179. Profit and Revenue Management for Hospitality. 3 Units

Prerequisite(s): RPTA 61 or Instructor Permission.
Term Typically Offered: Spring only

Revenue management is critical to the hospitality industry due to the perishable nature of a service based product. This course introduces students to topics related to revenue management in hospitality and teaches students techniques to manage revenue in a dynamic hospitality environment with all of the goal of managing profits for the company. Capacity management, demand and revenue forecasting, discounting, overbooking practices, channel management, and pricing execution for the hospitality operations are discussed.

RPTA 180. Foundations of Commercial Recreation. 3 Units

Term Typically Offered: Fall only

Overview of the historical and philosophical foundations of the commercial recreation field. Identification of providers of commercial recreation goods and services. Analyzes current functions and trends in the operation of commercial leisure enterprises.

RPTA 182. Travel And Tourism. 3 Units

Term Typically Offered: Fall only

Examination of the history, significance and nature of travel and tourism in the world with emphasis on the U.S. Analyzes economic, cultural and social factors underlying development and growth of travel and tourism and a review of related research. Identification and description of travel and tourism service providers including their organization, financing and management practices. Prerequisite: Declared RPTA majors and minors only or instructor permission

RPTA 183. Marketing Recreation Services. 3 Units

Prerequisite(s): RPTA 30 or instructor permission
Term Typically Offered: Fall, Spring

Fields of recreation (including therapeutic, commercial, municipal, etc.), tourism and hospitality, while diverse, all offer products that are primarily intangible. The management and marketing of such service products can differ profoundly from those of goods products (often the focus of traditional business programs). Addresses the nature of the service product and services marketing in the people intensive, experiential world of recreation.

RPTA 184. Hospitality Administration. 3 Units

Prerequisite(s): Restricted to declared RPTA major and minors or instructor permission
Term Typically Offered: Spring only

Introduces students to resorts and hotels and their position within the tourism and hospitality industries. The scope of the hospitality industry and various issues concerning the successful development of a hospitality product will be discussed. Prepares students to engage in an internship or employment in this or a related industry, including restaurants and retail. It also helps these and other students to reinforce concepts and skills learned elsewhere by providing concrete, real-world examples of marketing and management methods.

RPTA 185. Advanced Seminar in Commercial Recreation Administration. 3 Units

Prerequisite(s): RPTA 180, RPTA 105 and RPTA 183; RPTA 183 may be taken concurrently; or instructor permission.
Term Typically Offered: Fall, Spring

In-depth analysis of the management of recreational business on a for-profit basis. Focuses on advanced topics, analytical skills, and problem solving in the management arena.

RPTA 187. Food Tourism. 3 Units

Prerequisite(s): RPTA 80 or Instructor Permission.
Term Typically Offered: Spring only

Tourists are increasingly motivated to travel for food and drink. Visiting the location and touring the production facilities is also important. This course provides an overview of the global culinary and gastronomic tourism industry, focusing on the ability of a destination to market itself (both people and place) through food. The various social and cultural contexts in which gastronomic tourism takes place are discussed as well as positive and negative impacts of global and local gastronomic tourism (food tourism).

RPTA 188. Sacramento Region Craft Beer Industry Tourism. 3 Units

Prerequisite(s): Declared RPTA major or minor, or instructor permission
Term Typically Offered: Fall only

Introduction to visitation and tourism related to California’s craft beer industry, specifically in the Sacramento region. This course will provide students with a basic knowledge of craft beer as one of several local products that combine to create a unique agritourism selling proposition for Sacramento. Tourism-related products (beer festivals and contests, beer trails, beer bikes, and beer apps), hospitality (brewery tasting rooms and beer retail), as well as beer laws, and beer pairings will also be discussed.

Note: Must be 21 or over to enroll in the course. Field Trip(s).

Field trip(s) may be required.
RPTA 189. California Wine and Agri-Tourism. 3 Units
Prerequisite(s): Restricted to declared RPTA majors and minors or instructor permission
Term Typically Offered: Spring only

Introduction to the wine tourism and agri-tourism industries, specifically in the region surrounding Sacramento. Emphasis on wine regions, wineries as event stages, wine mythology and wine in popular culture. Additionally, the course will cover the role of agricultural festivals, related agri-tourism products, slow-food, specialty crop tourism, winery and farm retail, culinary destinations, wine list creation, ag natural tourism products and the role of agri-tourism as part of Sacramento's cultural identity.

RPTA 191. Service Learning Option for Recreation, Parks and Tourism Administration Courses. 1 Unit
Term Typically Offered: Fall, Spring

Individual goals, activities, and academic requirements for community service work and the service-learning credit option are outlined in a Service Learning Option/Contract agreed upon and signed by the student, instructor, and agency sponsor. Enrolled students are required to attend mid-semester and final learning assessment workshops and to complete written evaluations. Credit for the course awarded only if contract and course requirements are completed.
Credit/No Credit

RPTA 195B. Partial Internship: Recreation and Park Management. 4 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 32, RPTA 42, RPTA 101, RPTA 105, RPTA 106, RPTA 109, RPTA 110, RPTA 136 and approval of academic advisor and internship coordinator.
Term Typically Offered: Fall, Spring

Supervised part-time or short-term internship in a recreation, park or tourism organization or business. Supervision is provided by faculty and also by personnel at the host site.
Note: Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195D. Recreation Therapy Internship. 10 - 15 Units
Prerequisite(s): BIO 25, CHDV 30, PSYC 168, RPTA 1, RPTA 30, RPTA 102, RPTA 106, RPTA 110, RPTA 115, RPTA 117, RPTA 118, RPTA 119, and RPTA 136; completion of required administrative paperwork in the semester prior to internship, approval of major advisor.
Term Typically Offered: Fall, Spring

Supervised full-time therapeutic internship in a recreation, park or tourism organization or business. Supervision is provided by faculty and also by certified personnel at the host site. Meets the professional certification requirements at the national or state levels.
Note: Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195G. Partial Internship: Hospitality and Tourism Management. 4 - 6 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 61, RPTA 80, RPTA 82, RPTA 101, RPTA 105, RPTA 106, RPTA 110, RPTA 183, and approval of academic advisor.
Term Typically Offered: Fall, Spring, Summer

Supervised, part-time work experience in hospitality or tourism designed to give students an increased understanding of the nature and scope of industry operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Refer to the HTM Internship Manual for procedures and requirements.

RPTA 195H. Internship: Hospitality and Tourism Management. 10 - 15 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 61, RPTA 80, RPTA 82, RPTA 101, RPTA 105, RPTA 106, RPTA 110, RPTA 183, and approval of academic advisor.
Term Typically Offered: Fall, Spring, Summer

Supervised, full-time work experience in hospitality or tourism designed to give students an increased understanding of the nature and scope of industry operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Refer to the HTM Internship Manual for procedures and requirements.

RPTA 195Q. Partial Internship: Recreation, Park and Nonprofit Management. 4 - 6 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 61, RPTA 80, RPTA 82, RPTA 101, RPTA 105, RPTA 106, RPTA 110, RPTA 183, and approval of academic advisor.
Term Typically Offered: Fall, Spring, Summer

Supervised, part-time work experience in hospitality or tourism designed to give students an increased understanding of the nature and scope of industry operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195R. Internship: Recreation, Park and Nonprofit Management. 10 - 15 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 61, RPTA 80, RPTA 82, RPTA 101, RPTA 105, RPTA 106, RPTA 110, RPTA 183, and approval of academic advisor.
Term Typically Offered: Fall, Spring, Summer

Supervised, part-time work experience in hospitality or tourism designed to give students an increased understanding of the nature and scope of industry operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Refer to the HTM Internship Manual for procedures and requirements.
RPTA 196U. Advanced Leadership in Service Organizations. 3 Units
Prerequisite(s): RPTA 30 and RPTA 32, graduate student status, or instructor permission.
Term Typically Offered: Fall, Spring, Summer

To attain an overview of the leadership roles and responsibilities of the field of Recreation, Park & Tourism Administration. Gain a philosophical and contextual overview of leadership in the leisure services profession. Examination of various leadership techniques within the following recreation-based settings including Outdoor & Natural Resources, Community Recreation - Municipal and Non-Profit Organization, Hospitality and Tourism, and Recreational Therapy.

RPTA 198. Co-Curricular Activities. 1 - 3 Units
Prerequisite(s): Approval of an instructor and the Department chair.
Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and professional concerns of Recreation and Leisure Studies. For example, students may earn credit by participating as a tutor or discussion leader for recreation and leisure studies classes or a teacher or leader in programs offered by community organizations.

Note: The course may be repeated three times for a maximum total of 3 units. Students can enroll for a class that counts as 1, 2 or 3 units. No more than 3 units of RPTA 198 may be used to meet the major requirements.

Credit/No Credit

RPTA 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of an instructor and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Open only to students who appear competent to carry on individual work. Can be repeated six times for a maximum total of 6 units. Students can enroll for a class that counts as 1, 2 or 3 units. No more than 6 units of RPTA 198 and RPTA 199 in combination may be used to meet major requirements.

Credit/No Credit

RPTA 200A. Orientation to Graduate Studies in Recreation, Hospitality, Parks, and Nonprofit Organizations. 1 Unit
Prerequisite(s): Restricted to MS in Recreation, Hospitality, Parks, & Nonprofit Management students
Term Typically Offered: Fall, Spring, Summer

This course covers several topics related to the M.S. degree program in Recreation, Hospitality, Parks, and Nonprofit Management. Topics include expectations of the graduate program and different options for the culminating experience. This course will review several other aspects important to graduate student work in the RPTA department, including department and university deadlines and paperwork; library and campus resources, Office of Graduate Studies resources, scholarships, life-school balance, graduate school terminology, and financial aid and funding resources.

Credit/No Credit

RPTA 200B. Culminating Experience Preparation in Recreation, Hospitality, Parks and Nonprofit Management. 2 Units
Prerequisite(s): RPTA 200A
Term Typically Offered: Fall, Spring, Summer

This course provides students with faculty and peer support for the process of developing their thesis, culminating project or comprehensive exam. This includes the clarification of expectations, familiarization with research resources, and support provided through feedback in a structured environment.

Credit/No Credit

RPTA 200C. Foundations of Recreation, Hospitality, Parks, and Nonprofit Management. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course examines the foundation and role of recreation, hospitality, parks, and nonprofit management on the society. Discussions will address the historical, political, social and economic impact on the recreation, hospitality, parks and nonprofits industry. Students will identify evidence-based practice in the literature and identify theories associated in recreation, hospitality, parks, and nonprofit management.

RPTA 200D. Advanced Leadership in Service Organizations. 3 Units
Prerequisite(s): RPTA 30 and RPTA 32, graduate student status, or instructor permission.
Term Typically Offered: Fall, Spring, Summer

To attain an overview of the leadership roles and responsibilities of the field of Recreation, Park & Tourism Administration. Gain a philosophical and contextual overview of leadership in the leisure services profession. Examination of various leadership techniques within the following recreation-based settings including Outdoor & Natural Resources, Community Recreation - Municipal and Non-Profit Organization, Hospitality and Tourism, and Recreational Therapy.

RPTA 201. Advanced Studies in Leisure, Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 200
Term Typically Offered: Fall, Spring

The purpose of this course is to move students beyond conceptual foundations of leisure, recreation, parks and tourism administration to more theoretically advanced aspects of the field. In this course, students will pursue an in-depth exploration of the theories and research related to leisure, recreation, parks and tourism.

RPTA 202. Policies, Trends, and Issues in Recreation, Hospitality, Parks, and Nonprofit Organizations. 3 Units
Term Typically Offered: Fall, Spring, Summer

Major environmental and recreational issues and problems affecting the recreation, hospitality, parks, and nonprofit field are discussed, analyzed, and evaluated. Ramifications involving the policy-making and planning processes of major federal, state, and local agencies involved with recreation, hospitality, parks, and nonprofit delivery services are also covered.
RPTA 203. Advanced Management in Recreation, Hospitality, Parks and Nonprofit Organizations. 3 Units
Term Typically Offered: Fall, Spring, Summer

Examination of contemporary resources, techniques, and tools available to managers in various types of RHPN organizations. Leadership and management are broad areas and a class such as this cannot realistically provide a full overview of all the skills necessary to effectively manage an organization in the 21st Century. What we can achieve is to identify and discuss some skills, techniques, tools, and issues that are particularly important to the management of organizations within the broad recreation field.

RPTA 204. Advanced Research Methods in Recreation, Hospitality, Parks, and Nonprofit Management. 3 Units
Term Typically Offered: Fall, Spring, Summer

Provides an analysis of major research methods used in recreation, hospitality, parks, & nonprofit organizations. Addresses basic and applied research orientations, research designs, research proposals, data collection tools and methods, data analysis, and reporting of research findings.

RPTA 206. Liability and Risk Management in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

In-depth analysis of the principles of legal liability as they pertain to recreation, parks and tourism administration. An examination of the pervasive nature of risk as it pertains to the provision of recreation, parks and tourism programs and opportunities, and the concepts and methods of risk management. Includes field trips, mock trials or other related activities.
Field trip(s) may be required.

RPTA 206A. Introduction to Inclusive Recreation & Recreation Therapy. 3 Units
Term Typically Offered: Fall, Spring, Summer

Addresses the etiology and nature of common disabling conditions and examines issues of leisure participation and inclusion for underrepresented populations. Topics include: attitudinal barriers, advocacy, normalization, universal design, activity analysis and modification, and legislation. Including an emphasis on leadership, supervision, and organizational development of inclusive and therapeutic recreation programs.

RPTA 208. Liability and Risk Management in Recreation, Parks and Tourism. 3 Units
Term Typically Offered: Fall, Spring

In-depth analysis of the principles of legal liability as they pertain to recreation, parks and tourism administration. An examination of the pervasive nature of risk as it pertains to the provision of recreation, parks and tourism programs and opportunities, and the concepts and methods of risk management. Includes field trips, mock trials or other related activities.
Field trip(s) may be required.

RPTA 209. Seminar in Advanced Leisure Education. 3 Units
Term Typically Offered: Fall, Spring

Surveys current and historical perspectives of leisure education from a multicultural and life span viewpoint. Current modes of service delivery will be discussed as they relate to leisure theories. Methods of leisure education provision in diverse settings from school-park collaboratives, retirement and rehabilitation centers, to corporate wellness will be investigated. Development, implementation and management of viable leisure education services will be covered as well presentation, training and consultation skills.

RPTA 263. Grant Writing for Social, Community, and Human Service Organizations. 3 Units
Term Typically Offered: Fall, Spring

A detailed examination of grant writing as a means of augmenting agency revenues for social, community and human service organizations. Course focuses on techniques and strategies used for developing grant proposals, managing grants, and finding funders. Students will develop a full grant proposal including an evaluation and budget plan. Graduate students will conduct an in-depth comparison grant writing processes and budget analyses.

Note: Students may not take both RPTA 163 and RPTA 263 for credit.

RPTA 264. Leadership and Fundraising for Nonprofit Organizations. 3 Units
Term Typically Offered: Fall, Spring, Summer

The purpose of this course is to provide the principles and concepts of nonprofit leadership with an emphasis on youth and human service agencies. This course will explore and provide a historical and philosophical foundations of nonprofit organizations; board/committee development and operation; and the various roles of human service professionals as they relate to the nonprofit field. This course will consist of lectures, readings, discussion, guest speakers, nonprofit agency visitations, active learning exercises, and a community-learning component.

RPTA 265. Hospitality Administration. 3 Units
Term Typically Offered: Fall, Spring, Summer

Introduces students to resorts and hotels and their position within the tourism and hospitality industries. The scope of the hospitality industry and various issues concerning the successful development of a hospitality product will be discussed. Prepares students to engage in an internship or employment in this or a related industry, including restaurants and retail. It also helps these and other students to reinforce concepts and skills learned elsewhere by providing concrete, real-world examples of marketing and management methods.

RPTA 295. Practicum. 3 - 6 Units
Prerequisite(s): Approval of major advisor.
Term Typically Offered: Fall, Spring

Graduate internship experiences in a practical setting.

Note: Open only to graduate students. Can be repeated two times for a maximum total of 6 units. Students can enroll for a class that counts as 3, 4, 5 or 6 units. No more than 6 units of RPTA 295 and RPTA 299 in combination may be used to meet degree requirements.

Credit/No Credit
RPTA 299. Individual Study. 1 - 6 Units
Prerequisite(s): Approved petition filed in the department office.
Term Typically Offered: Fall, Spring

Individual project, problem, practical study, survey, and/or directed reading on the graduate level.
Note: Can be repeated six times for a maximum total of 6 units. Students can enroll for a class that counts as 1, 2, 3, 4, 5 or 6 units. No more than six units of RPTA 295 and RPTA 299 in combination may be used to meet major requirements.

Credit/No Credit

RPTA 500A. Culminating Experience: Thesis. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of graduate coordinator.
Term Typically Offered: Fall, Spring

Successful completion of a thesis approved for the Master’s degree. Student must have approval from first reader.
Credit/No Credit

RPTA 500B. Culminating Experience: Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of graduate coordinator.
Term Typically Offered: Fall, Spring

Successful completion of a project approved for Master’s degree. Student must have approval from the first reader.
Credit/No Credit

RPTA 500C. Culminating Experience: Comprehensive Exam. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Successful completion of a comprehensive examination approved for Master’s degree.
Credit/No Credit

BS in Hospitality and Tourism Management

Units required for Major: 57-59
Total units required for BS: 120

Program Description

Hospitality and tourism are two of California’s fastest growing and most important industries. The BS in Hospitality and Tourism Management allows students flexibility in the selection of courses related to hospitality and tourism management, commercial recreation, and event planning. Curriculum focuses on hotel management, tourism destination marketing, and convention and meeting planning, as well as the basics of entrepreneurial businesses, and the skills needed for working with for-profit, and experience industry agencies (e.g., resorts, ski lodges, conference and meeting facilities, cruise lines, theme parks, destination marketing agencies, spas, clubs, and travel agencies). Local industry professionals from the Sacramento Hotel Association and Visit Sacramento (Sacramento Convention and Visitors Bureau) work closely with department faculty to give students practical skills associated with internships and jobs in the industry.

Note:

• Students graduating with a Bachelor of Science Degree in Hospitality and Tourism Management are not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.
• No more than 6 units of RPTA 198 and RPTA 199 in combination may be used to meet program requirements. No more than 3 units of RPTA 198 may be used to meet major requirements.
• RPTA 21, RPTA 22, RPTA 100 and RPTA 122 may not be used to meet program requirements.

Minimum Grade Requirement
Grade of "C-" or better is required in all courses applied to the major.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>RPTA 1</td>
<td>Orientation to Recreation, Parks and Tourism Administration</td>
<td>1</td>
</tr>
<tr>
<td>RPTA 30</td>
<td>Recreation, Parks and Tourism in Contemporary Society</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 61</td>
<td>Cost Management for Hospitality</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 80</td>
<td>Introduction to Hospitality and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 82</td>
<td>Introduction to Hospitality and Tourism Law</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 84</td>
<td>Hotel and Lodging Operations</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 101</td>
<td>Senior Seminar</td>
<td>1</td>
</tr>
<tr>
<td>RPTA 105</td>
<td>Management in Recreation, Parks and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 106</td>
<td>Introduction to Inclusive Recreation and Recreation Therapy</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 110</td>
<td>Research and Evaluation in Recreation, Parks and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 183</td>
<td>Marketing Recreation Services</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 3

| RPTA 136 | Program and Event Planning in Recreation, Parks and Tourism | 3 |
| RPTA 139 | Conference and Meeting Planning | 3 |

Elective Requirement (15 Units) 1, 2

Selective 15 units from the following with approval from major advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>NUFD 9</td>
<td>Food Safety and Sanitation</td>
</tr>
<tr>
<td>RPTA 32</td>
<td>Leadership and Group Development</td>
</tr>
<tr>
<td>RPTA 136</td>
<td>Program and Event Planning in Recreation, Parks and Tourism 3</td>
</tr>
<tr>
<td>RPTA 139</td>
<td>Conference and Meeting Planning 3</td>
</tr>
<tr>
<td>RPTA 164</td>
<td>Leadership and Fundraising for Non-profit Organizations</td>
</tr>
<tr>
<td>RPTA 165</td>
<td>Volunteer Management in Nonprofit, Service, or Community Organizations</td>
</tr>
<tr>
<td>RPTA 178</td>
<td>Human Resources Management in the Hospitality Industry</td>
</tr>
<tr>
<td>RPTA 179</td>
<td>Profit and Revenue Management for Hospitality</td>
</tr>
<tr>
<td>RPTA 182</td>
<td>Travel And Tourism</td>
</tr>
<tr>
<td>RPTA 184</td>
<td>Hospitality Administration</td>
</tr>
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</table>
General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>D1</td>
<td>The Individual and Society (6-9 Units)</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

BS in Recreation Administration

Units required for Major: 57-59
Total units required for BS: 120

Program Description

The BS in Recreation, Park and Nonprofit Management prepares students to work in a wide range of fields that serve the public; protect our natural, cultural and heritage resources; and support a healthy quality of life. Students follow a set of foundational core classes that are augmented with the student’s choice of additional courses in one or more of the following areas:

- Nonprofit and Community Engagement. Leadership, Community Events & Fundraising, Volunteer Management. In this area, students choose from courses that will help develop skills and improve confidence in the areas of grant writing, leadership, community outreach and advocacy, finding and managing volunteers, creating fundraising events, and other related areas. There is an...
emphasis on engaging diversity to help nonprofit agencies best serve their local communities.

- **Outdoor Recreation.**
  *Natural Resource. Experiential Education. Parks & Protected Areas.*
  In this area, students choose from courses that will prepare them for ranger, park law enforcement, or wilderness interpreter jobs in federal or state government funded agencies such as the National Park Service, the United States Forest Service, the Army Corps of Engineers, California Department of Parks and Recreation, or the Bureau of Land Management. Additional coursework prepares students to serve as adventure recreation or experiential education leaders for recreation providers such as Peak Adventures.

- **Public and Agency Recreation.**
  In this area, students will gain skills in planning, implementing, managing, and evaluating comprehensive recreation programs that are a vital part of healthy communities. Students choose from courses that will teach them age-appropriate recreation programming across a wide-range of location and facility types including campus recreation centers, community park settings, summer camps, military bases, after-school sites, and others.

Note:

- Students graduating with a Bachelor of Science Degree in Recreation, Park and Nonprofit Management are not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.
- No more than 6 units of RPTA 198 (https://catalog.csus.edu/search/?P=RPTA%20198) and RPTA 199 (https://catalog.csus.edu/search/?P=RPTA%20199) in combination may be used to meet program requirements. No more than 3 units of RPTA 198 (https://catalog.csus.edu/search/?P=RPTA%20198) may be used to meet major requirements.
- RPTA 21 (https://catalog.csus.edu/search/?P=RPTA%2021), RPTA 22, RPTA 100 (https://catalog.csus.edu/search/?P=RPTA%20100), and RPTA 122 (https://catalog.csus.edu/search/?P=RPTA %20122) may not be used to meet program requirements.

### Minimum Grade Requirement

Grade of "C-" or better is required in all courses applied to the major.

### Program Requirements

<table>
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<th>Code</th>
<th>Title</th>
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<td>Orientation to Recreation, Parks and Tourism Administration</td>
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<td>RPTA 30</td>
<td>Recreation, Parks and Tourism in Contemporary Society</td>
<td>3</td>
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<td>RPTA 32</td>
<td>Leadership and Group Development</td>
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<tr>
<td>RPTA 42</td>
<td>Recreation and Parks: Natural, Cultural, and Heritage Resources</td>
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<tr>
<td>RPTA 60</td>
<td>Budgeting for Recreation Services</td>
<td>3</td>
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<td>RPTA 62</td>
<td>Introduction to Recreation Law</td>
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<td>Management in Recreation, Parks and Tourism</td>
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<td>RPTA 106</td>
<td>Introduction to Inclusive Recreation and Recreation Therapy</td>
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<td>RPTA 110</td>
<td>Research and Evaluation in Recreation, Parks and Tourism</td>
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<td>RPTA 136</td>
<td>Program and Event Planning in Recreation, Parks and Tourism</td>
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<td>RPTA 183</td>
<td>Marketing Recreation Services</td>
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<td>Race, Class Gender and Leisure</td>
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<td>RPTA 34</td>
<td>The Outdoor Recreation Experience</td>
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<td>RPTA 125</td>
<td>Leisure, the Individual, and Contemporary Society</td>
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<tr>
<td>RPTA 128</td>
<td>Recreation Services for Diverse, Underserved and Underrepresented Populations</td>
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<td>RPTA 129</td>
<td>Youth Development in Recreation, Parks &amp; Tourism</td>
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<tr>
<td>RPTA 130</td>
<td>Community Sport Programming</td>
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<td>RPTA 131</td>
<td>Morale Welfare and Recreation (MWR): Military Recreation Services</td>
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<td>RPTA 132</td>
<td>Campus Recreation</td>
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<td>RPTA 137</td>
<td>Community Organization</td>
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<td>RPTA 148</td>
<td>Experiential Education in Outdoor Recreation Settings</td>
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<td>RPTA 149</td>
<td>Developing and Programming Adventure Experiences</td>
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<td>RPTA 150</td>
<td>Ecology Of Resource Areas</td>
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<td>RPTA 151</td>
<td>Visitor Management in Recreation Areas</td>
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<td>Law Enforcement for Forest and Park Rangers</td>
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<td>RPTA 153</td>
<td>Environmental Interpretation</td>
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<td>RPTA 154</td>
<td>Management of Recreation Facilities</td>
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<td>RPTA 163</td>
<td>Grant Writing for Social, Community and Human Service Organizations</td>
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<td>RPTA 164</td>
<td>Leadership and Fundraising for Non-profit Organizations</td>
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<td>RPTA 165</td>
<td>Volunteer Management in Nonprofit, Service, or Community Organizations</td>
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<tr>
<td>RPTA 166</td>
<td>Administration in Recreation, Parks and Tourism</td>
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<tr>
<td>RPTA 167</td>
<td>Professional Organization Leadership</td>
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</table>

**Internship Requirement (10-12 Units)**

Select from the following for a minimum of 10 units:

- RPTA 195Q Partial Internship: Recreation, Park and Nonprofit Management
- RPTA 195R Internship: Recreation, Park and Nonprofit Management

**Total Units**
57-59

1. At least 9 units must be at the upper division level.
2. RPTA 21, RPTA 22, RPTA 100, or RPTA 122 may not be used to meet major requirements.
Graduation Requirements

General Education Requirements

<table>
<thead>
<tr>
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<td>Written Communication</td>
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<td>A3</td>
<td>Critical Thinking</td>
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<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
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<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
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<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
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<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
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<tr>
<td>C1/C2</td>
<td>Area C Course</td>
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<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<td>D1</td>
<td>The Individual and Society (6-9 Units)</td>
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<tr>
<td>D2</td>
<td>Area D Course</td>
<td>3</td>
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<tr>
<td>D2</td>
<td>Area D Course 2</td>
<td>0 - 3</td>
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<tr>
<td>D2</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td>E1</td>
<td>Understanding Personal Development</td>
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</tr>
<tr>
<td>F1</td>
<td>Ethnic Studies (3 Units)</td>
<td>3</td>
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</table>

Total Units: 43-46

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Department recommends RPTA 33 to meet Area D.

3. Required in Major; also satisfies GE.

Graduation Requirements

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<th>Title</th>
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<td>B</td>
<td>Recreation, Parks and Tourism in Contemporary Society</td>
<td>3</td>
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<tr>
<td>C</td>
<td>Leadership and Group Development</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>Recreation and Parks: Natural, Cultural, and Heritage Resources</td>
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<tr>
<td>E</td>
<td>Recreation Therapy Professional Practice</td>
<td>1</td>
</tr>
</tbody>
</table>

BS in Recreation Therapy

Units required for Major: 70-71
Total units required for BS: 120

Program Description

The BS in Recreation Therapy focuses on recreation services for individuals who are ill, disabled, elderly, or incarcerated. It can be applied in clinical, transitional, and community based settings. Emphasis is on therapeutic recreation as it applies to children and adults who are physically, mentally, socially, and/or emotionally challenged.

Note:

- Students graduating with a Bachelor of Science Degree in Recreation Therapy will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.
- No more than 6 units of RPTA 198 and RPTA 199 in combination may be used to meet program requirements. No more than 3 units of RPTA 198 may be used to meet major requirements.
- RPTA 21, RPTA 100 and RPTA 122 may not be used to meet program requirements.

Minimum Grade Requirement

Grade of "C-" or better is required in all courses applied to the major.

Program Requirements
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<tr>
<td>RPTA 110</td>
<td>Research and Evaluation in Recreation, Parks and Tourism</td>
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<tr>
<td>RPTA 115</td>
<td>Recreation Therapy Assessment and Documentation</td>
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<tr>
<td>RPTA 116</td>
<td>Recreation Therapy Principles and Practices and the Recreation Therapy Process</td>
<td>3</td>
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<tr>
<td>RPTA 117</td>
<td>Recreation Therapy and Contemporary Aspects of Disability</td>
<td>3</td>
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<tr>
<td>RPTA 118</td>
<td>Recreation Therapy Facilitation Techniques</td>
<td>3</td>
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<tr>
<td>RPTA 119</td>
<td>Recreation Therapy Management and Advancement of the Profession</td>
<td>3</td>
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<td>RPTA 136</td>
<td>Program and Event Planning in Recreation, Parks and Tourism</td>
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<tr>
<td>RPTA 195D</td>
<td>Recreation Therapy Internship</td>
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**Recreation Therapy Non-RPTA Supportive Coursework (18 Units)**

Select 18 units

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<tbody>
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<td>A1</td>
<td>Oral Communication</td>
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<tr>
<td>A2</td>
<td>Written Communication</td>
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<tr>
<td>A3</td>
<td>Critical Thinking</td>
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<td>B1</td>
<td>Physical Science</td>
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<tr>
<td>B2</td>
<td>Life Forms</td>
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<td>B3</td>
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<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
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<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
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<td>C1/C2</td>
<td>Area C Course</td>
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<tr>
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**Area P: Ethnic Studies (3 Units)**

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**General Education Requirements**

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<td>B1</td>
<td>Physical Science</td>
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<tr>
<td>B2</td>
<td>Life Forms</td>
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<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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<td>B4</td>
<td>Math Concepts</td>
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<tr>
<td>B5</td>
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**Area D: The Individual and Society (9 Units)**

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**Area E: Understanding Personal Development**

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<td>Area E Course</td>
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</table>

**Certificate in Event Planning**

**Units required for Certificate: 12**

**Program Description**

The certificate program in Event Planning is designed for students interested in working for both private and public agencies in the areas of event planning, wedding planning, meeting planning, and recreational programming. Course work includes classes that teach the essentials in successful event management, including volunteer management, fundraising, sponsorships and leadership.

Completion of any of the program entitles a student to receive a certificate for that program in addition to the Bachelor of Science diploma. Certificates are officially recognized by the university and will appear on a student’s transcript and may be listed on a student’s résumé. **Students must be declared RPTA majors or minors in order to enroll in the certificate programs.** If a student fails to complete the major or minor, the certificate will not be awarded. All units must be taken in Recreation, Parks & Tourism Administration.

**Bachelor of Science students:** In addition to complete the requirements for the Bachelor of Science degree in Recreation Administration, students may also complete one or more of the certificate programs. Units in the certificates may overlap with required and supportive courses in the major.

**Minor students:** With advisor approval, students in the RPTA Minor Program may take courses in the certificate programs to partially fulfill the requirements of the minor (please read all of the minor requirements above). Students must complete all of the requirements for the minor to receive the certificate.

**Minimum Grade Requirement**

A grade of "C-" or better is required in all courses applied to the certificate.

**Program Requirements**

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<td>Leadership and Group Development</td>
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<td>RPTA 136</td>
<td>Program and Event Planning in Recreation, Parks and Tourism</td>
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<td>RPTA 139</td>
<td>Conference and Meeting Planning</td>
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<td>RPTA 164</td>
<td>Leadership and Fundraising for Non-profit Organizations</td>
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<td>RPTA 165</td>
<td>Volunteer Management in Nonprofit, Service, or Community Organizations</td>
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<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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</table>
Certificate in Natural Resources Administration

Units required for Certificate: 9

Program Description
The certificate program in Natural Resource Administration prepares students to work in outdoor recreation agencies such as California State Parks, National Parks, National Forests, and other agencies that manage our natural, cultural and heritage resources. Through an informative coursework, students will receive a strong foundation in recreation management related to providing the public with high-quality outdoor recreational opportunities.

Completion of any of the program entitles a student to receive a certificate for that program in addition to the Bachelor of Science diploma. Certificates are officially recognized by the university and will appear on a student’s transcript and may be listed on a student’s résumé.

Students must be declared RPTA majors or minors in order to enroll in the certificate programs. If a student fails to complete the major or minor, the certificate will not be awarded. All units must be taken in Recreation, Parks & Tourism Administration.

Bachelor of Science students: In addition to complete the requirements for the Bachelor of Science degree in Recreation Administration, students may also complete one or more of the certificate programs. Units in the certificates may overlap with required and supportive courses in the major.

Minor students: With advisor approval, students in the RPTA Minor Program may take courses in the certificate programs to partially fulfill the requirements of the minor (please read all of the minor requirements above). Students must complete all of the requirements for the minor to receive the certificate.

Minimum Grade Requirement
A grade of "C-" or better is required in all courses applied to the certificate.

Program Requirements

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<td>RPTA 150</td>
<td>Ecology Of Resource Areas</td>
<td>3</td>
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<td>Electives</td>
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<td>RPTA 151</td>
<td>Visitor Management in Recreation Areas</td>
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<td>RPTA 152</td>
<td>Law Enforcement for Forest and Park Rangers</td>
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<tr>
<td>RPTA 153</td>
<td>Environmental Interpretation</td>
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Total Units: 9

Certificate in Non-Profit Administration

Units required for Certificate: 12

Program Description
The Non-profit and tax-supported agencies are increasingly under pressure to secure their own funding and provide evidence of the impact of their programs. The certificate program in Non-Profit Administration provides students with solid skills to lead agencies in the public sector with course work in grant writing, fundraising, volunteer management and several other aspects of management for non-profit agencies. Non-RTPA majors can declare the Minor in Non-Profit Administration.

Completion of any of the program entitles a student to receive a certificate for that program in addition to the Bachelor of Science diploma. Certificates are officially recognized by the university and will appear on a student’s transcript and may be listed on a student’s résumé.

Students must be declared RPTA majors or minors in order to enroll in the certificate programs. If a student fails to complete the major or minor, the certificate will not be awarded. All units must be taken in Recreation, Parks & Tourism Administration.

Bachelor of Science students: In addition to complete the requirements for the Bachelor of Science degree in Recreation Administration, students may also complete one or more of the certificate programs. Units in the certificates may overlap with required and supportive courses in the major.

Minor students: With advisor approval, students in the RPTA Minor Program may take courses in the certificate programs to partially fulfill the requirements of the minor (please read all of the minor requirements above). Students must complete all of the requirements for the minor to receive the certificate.

Minimum Grade Requirement
A grade of "C-" or better is required in all courses applied to the certificate.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTA 107</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPTA 164</td>
<td>Leadership and Fundraising for Non-profit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 165</td>
<td>Volunteer Management in Nonprofit, Service, or Community Organizations</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>RPTA 128</td>
<td>Recreation Services for Diverse, Underserved and Underrepresented Populations</td>
<td></td>
</tr>
<tr>
<td>RPTA 137</td>
<td>Community Organization</td>
<td></td>
</tr>
<tr>
<td>RPTA 139</td>
<td>Conference and Meeting Planning</td>
<td></td>
</tr>
<tr>
<td>RPTA 129</td>
<td>Youth Development in Recreation, Parks &amp; Tourism</td>
<td></td>
</tr>
<tr>
<td>RPTA 167</td>
<td>Professional Organization Leadership</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 9

Certificate in Outdoor Adventure Administration

Units required for Certificate: 12
Program Description

The certificate program in Outdoor Adventure Administration is for students wanting to provide the public with experiences and programs to play and learn in the great outdoors. Students will extend the general park and recreation management foundation of the Recreation Administration core with courses that teach adventure recreation programming and experiential education skills.

Completion of any of the program entitles a student to receive a certificate for that program in addition to the Bachelor of Science diploma. Certificates are officially recognized by the university and will appear on a student’s transcript and may be listed on a student’s résumé. Students must be declared RPTA majors or minors in order to enroll in the certificate programs. If a student fails to complete the major or minor, the certificate will not be awarded. All units must be taken in Recreation, Parks & Tourism Administration.

Bachelor of Science students: In addition to complete the requirements for the Bachelor of Science degree in Recreation Administration, students may also complete one or more of the certificate programs. Units in the certificates may overlap with required and supportive courses in the major.

Minor students: With advisor approval, students in the RPTA Minor Program may take courses in the certificate programs to partially fulfill the requirements of the minor (please read all of the minor requirements above). Students must complete all of the requirements for the minor to receive the certificate.

Minimum Grade Requirement

A grade of "C-" or better is required in all courses applied to the certificate.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTA</td>
<td>Required Courses (3 Units)</td>
<td></td>
</tr>
<tr>
<td>RPTA 42</td>
<td>Recreation and Parks: Natural, Cultural, and Heritage Resources</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 148</td>
<td>Experiential Education in Outdoor Recreation Settings</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 149</td>
<td>Developing and Programming Adventure Experiences</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 80</td>
<td>Introduction to Hospitality and Tourism</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives (12 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select 12 units from the following:</td>
</tr>
<tr>
<td>RPTA 61</td>
</tr>
<tr>
<td>RPTA 82</td>
</tr>
<tr>
<td>RPTA 84</td>
</tr>
<tr>
<td>RPTA 139</td>
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<tr>
<td>RPTA 178</td>
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<tr>
<td>RPTA 179</td>
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<td>RPTA 182</td>
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<td>RPTA 184</td>
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<td>RPTA 185</td>
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<tr>
<td>RPTA 187</td>
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<tr>
<td>RPTA 188</td>
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<tr>
<td>RPTA 189</td>
</tr>
</tbody>
</table>

Total Units: 15

Minor in Non-Profit Management

Units required for Minor: 15

Program Description

The Minor in Non-Profit Management is a 15-unit program designed for non-RPTA majors (RPTA majors cannot complete the minor program and should see the link for the related RPTA Certificate Program). The Minor in Non-Profit Management will give students a solid background in grant writing and fundraising for non-profit agencies of all types, as well as skills in leadership, community engagement, and volunteer management for the non-profit sector.

The minor requires 15 units, with at least 9 upper division units taken in residence at Sacramento State.

Admission Requirements: Course prerequisites and other criteria for admission of students to the degree major program, and for their continuation in it.

Minimum Grade Requirement

A grade of "C-" or better is required in all upper division courses applied to the minor.

Minor in Hospitality and Tourism Management

Program Description

The Minor in Hospitality and Tourism Management is designed for non-RPTA majors interested in learning about career areas within the hospitality and tourism fields. This broad set of industries can lead to careers in hospitality and event planning, tourism, eco-tourism, activity programming, and destination marketing.

The minor requires 15 units, all of which must be taken in Recreation, Parks, and Tourism Administration. At least 9 units must be upper division, with at least 9 upper division units taken in residence at Sacramento State.

Minimum Grade Requirement

A grade of "C-" or better is required in all courses applied to the certificate.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTA</td>
<td>Required Courses (3 Units)</td>
<td></td>
</tr>
<tr>
<td>RPTA 80</td>
<td>Introduction to Hospitality and Tourism</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives (12 Units)</th>
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<tbody>
<tr>
<td>Select 12 units from the following:</td>
</tr>
<tr>
<td>RPTA 61</td>
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<tr>
<td>RPTA 82</td>
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<td>RPTA 84</td>
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<tr>
<td>RPTA 139</td>
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<td>RPTA 178</td>
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<td>RPTA 179</td>
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<td>RPTA 187</td>
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<td>RPTA 188</td>
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<td>RPTA 189</td>
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</tbody>
</table>

Total Units: 15
Minor in Park Management

Units required for Minor: 15

Program Description

The Minor in Park Management is designed for non-RPTA majors interested in learning about career areas related to natural resource and park law enforcement. Park Management can lead to careers in several land management agencies including California State Parks, National Parks (US Department of Interior), National Forests (US Department of Agriculture), Army Corps of Engineers, and the Bureau of Land Management. Concepts related to recreation ecology, visitor management, cultural and heritage resources, and environmental interpretation are included.

The minor requires 15 units, and must include at least 9 units of upper division coursework taken in residence at Sacramento State.

Minimum Grade Requirement

A grade of "C-" or better is required in all upper division courses applied to the minor.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>RPTA 32</td>
<td>Leadership and Group Development</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 163</td>
<td>Grant Writing for Social, Community and Human Service Organizations</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 164</td>
<td>Leadership and Fundraising for Non-profit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 165</td>
<td>Volunteer Management in Nonprofit, Service, or Community Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three units of elective coursework from RPTA courses. A student may count an elective course outside of RPTA with permission from their RPTA Minor Advisor.

Total Units: 15

Minor electives may not include RPTA 1, RPTA 21, RPTA 101, RPTA 102, RPTA 109, RPTA 110, RPTA 115, RPTA 116, RPTA 117, RPTA 118, RPTA 119, RPTA 195 series courses, RPTA 198, or one-unit courses (e.g. RPTA 50).

Minor in Recreation Management

Units required for Minor: 15

Program Description

The Minor in Recreation Management is designed for non-RPTA majors interested in learning about career areas within the recreation field. This broad set of industries can lead to careers in experiential education, community sports (for youths, teens, and adults), outdoor leadership, campus recreation, activity programming, military recreation, intramural league programming, and adventure recreation.

The minor requires 15 units, and must include at least 9 units of upper division coursework taken in residence at Sacramento State.

Minimum Grade Requirement

A grade of "C-" or better is required in all upper division courses applied to the minor.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTA 30</td>
<td>Recreation, Parks and Tourism in Contemporary Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (12 Units)

Select 12 units from the following: 2, 3, 4

- RPTA 32 Leadership and Group Development
- RPTA 33 Race, Class Gender and Leisure
- RPTA 34 The Outdoor Recreation Experience
- RPTA 42 Recreation and Parks: Natural, Cultural, and Heritage Resources
- RPTA 60 Budgeting for Recreation Services
- RPTA 62 Introduction to Recreation Law
- RPTA 105 Management in Recreation, Parks and Tourism
- RPTA 106 Introduction to Inclusive Recreation and Recreation Therapy
- RPTA 125 Leisure, the Individual, and Contemporary Society
- RPTA 130 Community Sport Programming
- RPTA 131 Morale Welfare and Recreation (MWR): Military Recreation Services
- RPTA 132 Campus Recreation

Total Units: 15

1. Minor electives may not include RPTA 1, RPTA 21, RPTA 101, RPTA 102, RPTA 109, RPTA 110, RPTA 115, RPTA 116, RPTA 117, RPTA 118, RPTA 119, RPTA 195 series courses, RPTA 198, or one-unit courses (e.g. RPTA 50).
2. With minor advisor approval, up to 3 units of RPTA 199 may be applied to the minor.
3. Minor elective coursework to be selected in consultation with RPTA Minor Advisor.
Career competencies are dependent upon the professional goal of each student. Hence, these vary. After career objectives have been clarified, individual students usually will be educated to:

- develop valid and reliable measures of program evaluation based on theoretical constructs and practical field requirements;
- develop efficient, effective, and meaningful procedures for assessing recreation needs and for allocating resources;
- identify and demonstrate effective decision making processes in leisure service systems; and
- demonstrate an effective interpretation of leisure and recreation data, findings, and procedures, and communicate these in personal and professional environments.

**Admission Requirements**

Admission as a classified graduate student in Recreation, Parks & Tourism Administration requires:

- a baccalaureate degree in Recreation Administration or related discipline;
- a minimum 2.75 GPA overall and a minimum 3.0 GPA in the major;
- a detailed resume;
- three letters of recommendation;
- a writing sample;
- a personal statement;
- TOEFL/IELTS required for international applicants

A student with a baccalaureate degree from another discipline may be admitted to conditionally classified standing and complete certain designated courses in Recreation Parks & Tourism Administration, totaling 15 additional units (as determined by a faculty advisor), in order to acquire the academic background necessary to qualify for classified standing. A student from another discipline who wishes to qualify for state and/or national registration as a therapeutic recreation specialist may need to take additional coursework.

**Admission Procedures**

Applications are accepted as long as room for new students exists and the Office of Graduate Studies is still accepting applications. Currently, formal admissions to the graduate program in Recreation, Hospitality, Parks, and Nonprofit Management are for fall. Applications are accepted and reviewed in the spring for the fall semester. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470, www.csus.edu/gradstudies/ (http://www.csus.edu/gradstudies/):

- an online application for admission; and
- one set of official transcripts from each college and/or university attended, other than Sacramento State.

For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

**Minimum Units and Grade Requirement for the Degree:**

Units required for the MS: 30

Minimum Cumulative GPA: 3.0; as an exception to university policy a maximum of two “B-” grades may be counted towards the degree.
**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTA 200A</td>
<td>Orientation to Graduate Studies in Recreation, Hospitality, Parks, and Nonprofit Organizations</td>
<td>1</td>
</tr>
<tr>
<td>RPTA 200B</td>
<td>Culminating Experience Preparation in Recreation, Hospitality, Parks and Nonprofit Management</td>
<td>2</td>
</tr>
<tr>
<td>RPTA 200C</td>
<td>Foundations of Recreation, Hospitality, Parks, and Nonprofit Management</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 202</td>
<td>Policies, Trends, and Issues in Recreation, Hospitality, Parks, and Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 203</td>
<td>Advanced Management in Recreation, Hospitality, Parks and Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>RPTA 204</td>
<td>Advanced Research Methods in Recreation, Hospitality, Parks, and Nonprofit Management</td>
<td>3</td>
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**Electives (12 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTA 206</td>
<td>Liability and Risk Management in Recreation, Parks and Tourism</td>
<td>1</td>
</tr>
<tr>
<td>RPTA 207</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>RPTA 208</td>
<td>Liability and Risk Management in Recreation, Parks and Tourism</td>
<td>1</td>
</tr>
<tr>
<td>RPTA 209</td>
<td>Seminar in Advanced Leisure Education</td>
<td>1</td>
</tr>
<tr>
<td>RPTA 264</td>
<td>Leadership and Fundraising for Nonprofit Organizations</td>
<td>1</td>
</tr>
<tr>
<td>RPTA 284</td>
<td>Hospitality Administration</td>
<td>1</td>
</tr>
<tr>
<td>RPTA 295</td>
<td>Practicum</td>
<td>1</td>
</tr>
<tr>
<td>RPTA 299</td>
<td>Individual Study</td>
<td>1</td>
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**Culminating Requirement (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTA 500A</td>
<td>Culminating Experience: Thesis</td>
<td>1</td>
</tr>
<tr>
<td>RPTA 500B</td>
<td>Culminating Experience: Project</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Elective coursework is selected with the prior consent of the student's academic advisor to satisfy the following:
   - No more than 6 units of any combination of RPTA 295 and RPTA 299 may be counted towards the degree.
   - No more than 6 units of coursework may be taken outside of RPTA (students who have not previously completed an undergraduate major in Recreation, Parks & Tourism Administration must have the prior consent of the Graduate Coordinator before taking coursework outside RPTA).
   - At least 6 units of elective coursework must be at the 200 level (for a total of at least 18 units of 200 level coursework in the degree program).

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**Social Work**

**Colleges of Health and Human Services**

**Program Description**

Social Work is a profession that strives to enhance the well-being of all people while attending specifically to the needs and empowerment of those in vulnerable life conditions. The Sacramento State program focus embraces the interdependent interests of both the individual and society, with particular attention to the social context that creates, contributes to, and addresses obstacles and resources for individual and community growth and development.

Social Workers seek to help people address their own needs and influence the responsiveness of organizations, communities, and other social institutions, thus promoting social justice and social change. Towards these ends, multilevel Social Work activities include group work, community organization, supervision, individual and family counseling, consultation, administration, advocacy, social and political action, policy development and implementation, education, research and evaluation. In practice, Social Workers are sensitive to cultural and ethnic diversity, and work to combat discrimination, oppression, poverty, and other forms of social injustice.

The principle objective of the Bachelor of Arts in Social Work degree program is to educate beginning professional practitioners as generalists. The Master of Social Work degree program supports advanced specialized professional practice.

**Degree Programs**

- BA in Social Work (p. 787)
- Master of Social Work (p. 789)

**Accreditation**

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Arts in Social Work and Master of Social Work are also individually accredited by Council of Social Work Education (CSWE).

**Notice to Students RE: Professional Licensure and Certification**

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated
with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states' educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state's requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features

• The Bachelor of Arts in Social Work and the Master of Social Work degree programs are accredited by the Council on Social Work Education.

• Many required classes will have at least one section scheduled during evening hours.

• Social Work students earn academic credit for professionally supervised field experience in a human service agency. The practicum is two to three days per week.

• All BA and MSW students receive academic and career planning advisement. Employment information for students is updated continuously.

• Graduate and undergraduate Social Work students maintain active student organizations including a chapter of Phi Alpha, a national honor society for Social Work.

• The MSW degree fulfills most of the educational requirements for California licensure as Licensed Clinical Social Worker (LCSW) and the Pupil Personnel Services Credential for School Social Work.

Career Possibilities

Geriatric Social Worker · Forensic Social Worker · Medical Social Worker · Mental Health Social Worker · Social Planner · Substance Abuse Counselor · Social Service Administrator · Community Organizer · Child and Family Counselor · Child Protective Worker · Adult Protective Worker · Occupational/Industrial Social Worker · Employee Assistance Counselor · Adoptions Worker · School Social Worker · Agency Director Program Evaluator · Family Therapist · Individual, Child & Family Therapist

Contact Information

Dale Russell, Director
Sandy Birtcil, Administrative Support Coordinator
Mariposa Hall 4010
(916) 278-6943
Division of Social Work Website (http://www.hhs.csus.edu/SWRK/)

Faculty

ARGUELLO, TYLER M.
BAIOCCHI, ARTURO
CALER, KYLE
CURRY, SUSANNA
DEMETRAL, DAVID
DINIS, MARIA
EGGMAN, SUSAN T.
EVANS, ETHAN
GUADALUPE, KRISHNA L.
KENNEY, JENNIFER
LEE, SERGE C.
MARSH, LISA
NAKAOKA, SUSAN
NAM, KISUN
NYLUND, DAVID
REED, SARAH
TAYLOR, SUSAN A.
TORRES, JR., SANTOS

SWRK 95. Introduction to Social Work. 3 Units
Term Typically Offered: Fall, Spring
Provides an overview of the social work profession and of social welfare systems especially in relation to marginalized populations. Also introduces a generalist perspective to social work practice with emphasis on professional development. Students are exposed to the values and ethics of social work, as well as the important ideologies that have shaped social welfare and social work.
Note: Includes a 30 hour volunteer experience to aid in assessing student's appropriateness for the profession. A grade of "C" or better is required before taking SWRK 140A.

SWRK 102. Crosscultural Theory and Practice: Issues of Race, Gender and Class. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer
Increase student awareness of social, political, economic, and cultural diversity. Addresses patterns and consequences of discrimination and oppression as well as theoretical and practice content and strategies for social change.

SWRK 110. Statistics and Research for Social Workers. 3 Units
Term Typically Offered: Fall, Spring, Summer
Descriptive and inferential statistics, sampling, probability distribution, introduction to research methods, relationship of statistics to research methods; illustrations drawn from the field of human services.

SWRK 111. Research Methods and Program Evaluation. 3 Units
Prerequisite(s): SWRK 110.
Corequisite(s): SWRK 140B or SWRK 140C.
Term Typically Offered: Fall, Spring
User oriented research methods focusing on locating, understanding, and using the professional research literature relevant to the development of skills for the human service practitioner; and methods of evaluating ones own practice and agency programs.
SWRK 118. Chemical Dependency and Social Work Practice. 3 Units
Term Typically Offered: Fall, Spring

Introduction to social work practice with the alcoholic/addicted individual or family. The ecological framework will be utilized for studying alcohol and drug dependence and its prevention/intervention. Emphasis will be placed on addiction as a biopsychosocial problem with a special focus on oppressed and marginalized populations.

SWRK 125A. Human Behavior and the Social Environment: Theory. 3 Units
Prerequisite(s): SWRK Majors only with Junior status; completion of pre-major BIO 1, BIO 10, BIO 20 or ANTH 1; and ECON 1A, ECON 1B, PSYC 2, or SOC 1; and CRJ 1, GERO 100, SOC 3 or SOC 10.
Term Typically Offered: Fall only

Theory forms the foundation of all social work practice, attempting to explain complicated human behavior in interaction with diverse environments. This course examines core theories of human behavior, families, small groups, organizations, social movements, and human society from a variety of social science disciplines. Each theory will be critically examined in respect to application towards diverse groups and the vulnerable populations that social workers serve.

SWRK 125B. Human Behavior and the Social Environment: The Life Course. 3 Units
Prerequisite(s): SWRK majors only and SWRK 125A
Term Typically Offered: Spring only

This course examines growth and development with special focus on lifespan from birth through old age in the context of family, community, complex organizations, and society. With technological, economic, political and ecological systems rapidly changing, the course will also examine the effects on the interplay between human life and the environment.

SWRK 126. Theories of Criminal Behavior. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Analyzes various theories in terms of their logic, historical origins, and policy implications. Focus on developing a critical framework.

SWRK 129. Human Sexuality in Social Work Perspectives. 3 Units
Term Typically Offered: Fall only

Examines psycho-social-cultural influences on sexual identity and sexual behavior; analyzes problems confronting the victims of sex-discrimination and oppression; considers education and treatment programs.

SWRK 132. Social Work and Spirituality. 3 Units
Term Typically Offered: Spring only

This course examines how spirituality serves as a liberating, and at times constricting force in the lives of our clients and communities. Competencies for both assessing and engaging in discussions about our clients' spiritual world as well as self-awareness regarding social work practitioner spiritual orientations are emphasized. Diverse spiritual and religious backgrounds (including those who consider themselves non-spiritual or non-religious) are welcomed and celebrated in the classroom.

SWRK 134. Crimes Without Victims. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Focuses on the study of particular behavior defined as criminal, including addiction, pornography, homosexuality, prostitution and abortion. The role of morality is examined.

SWRK 136. Poverty and Homelessness in America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Analyzes social theory and its relationship to the generation and retention of institutional poverty. Within this context, public and private welfare programs serving low-income populations will be examined.

SWRK 137. The Child and the Law. 3 Units
Term Typically Offered: Spring only

Both civil and criminal aspects of the relationship of the applicability and effect of the law on minors, including juvenile court, wardship and dependency, liability for torts, the child and divorce.

SWRK 138. Violence In The Family. 3 Units
Term Typically Offered: Fall only

Provides basic information on victims and perpetrators of violence in the family. The focus is on child maltreatment, spouse/partner battering, abuse of the elderly, and the roles and responsibilities of social workers responding to family violence.

SWRK 140A. Social Work Practice. 3 Units
Prerequisite(s): SWRK 95 and SWRK 125A; SWRK majors only; Junior standing and a grade of "C" or better in all previous SWRK courses
Corequisite(s): SWRK 125B
Term Typically Offered: Fall, Spring

Provides an introduction to the profession and generalist social work practice with individuals, families, groups, organizations, and communities. Practice skills focus on application of the planned changed process from an empowerment approach.

SWRK 140B. Social Work Practice. 3 Units
Prerequisite(s): SWRK 95, SWRK 102, SWRK 125B, SWRK 140A, SWRK 150; SWRK majors only; senior standing; Minimum grade of "C" in all previously completed SWRK courses; GWAR certification or having met university writing requirements
Corequisite(s): SWRK 195A
Term Typically Offered: Fall, Spring

Generalist practice through a cross-cultural lens. Focuses on culturally competent relationship building, assessment, and intervention with individuals, organizations and communities.

SWRK 140C. Social Work Practice. 3 Units
Prerequisite(s): SWRK 195A and SWRK 140B.
Corequisite(s): SWRK 195B
Term Typically Offered: Fall, Spring

Focuses on family intervention through an emphasis on strengths-based case management and children and youth issues. Group work processes and intervention examined through experiential and formal learning.
Corequisite: SWRK 195B.
This elective provides students with an in-depth understanding and critical framework to conduct applied work with individuals who are LGBTQ+, and their kinship networks and communities. Various perspectives (e.g., person-in-environment, historical, political, psychological, critical theory, intersectional) are utilized to better understand contemporary issues, social and health inequities, and lived experiences of LGBTQ+ people. Assignments deepen self-awareness in service of professional development. This course is open to upper division undergraduates of all majors, and to all graduate students.

**SWRK 150. Welfare In America.**

3 Units

General Education Area/Graduation Requirement: GE AREA D

Term Typically Offered: Fall, Spring, Summer

Examines the history, purpose, structure, and costs of current American social welfare policy and programs and the role of social work in policy and program development.

**SWRK 151. Health Services and Systems.**

3 Units

General Education Area/Graduation Requirement: GE AREA D

Term Typically Offered: Fall, Spring, Summer

Examines the delivery of health and mental health service with a focus on problems experienced by economically disadvantaged and oppressed populations.

**SWRK 153. Child Welfare Services.**

3 Units

Term Typically Offered: Fall, Spring

Provides basic information on the recognition and treatment of problems of children in the home, school and community, and on the public and private social services and laws which promote and protect the welfare of children.

**SWRK 191. Exploration of Veteran Studies: An Ethnographic Approach.**

3 Units

Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D

Term Typically Offered: Fall, Spring

Through the review of ethnographic works, qualitative research articles and other significant recent literature on veterans’ issues, students are introduced to the qualitative research process. Most significantly students simultaneously gain knowledge of the issues and challenges faced by veterans returning from combat as they transition to civilian life as well as the best practices in supporting positive transitions from combat to civilian life. Students will develop analytical thinking skills and writing skills for preparing literature reviews.

**SWRK 195A. Field Instruction + Integration Seminar.**

6 Units

Prerequisite(s): SWRK 102, SWRK 125A, SWRK 125B, SWRK 140A and SWRK 150 and permission of the Field Director (or designee).

Corequisite(s): SWRK 140B

Term Typically Offered: Fall only

Two-semester sequence of instruction that takes place in an approved social service agency. Under the supervision of a certified field instructor, students demonstrate their ability to apply knowledge, skills, critical thinking and professional competencies required of undergraduate generalist social workers. Students are required to provide own transportation to and from agency.

Note: Students must attend two separate field orientations prior to beginning field placement; enrollment is limited to students who have completed a field application, interviewed at a field agency and been accepted to an approved field placement.

Credit/No Credit

**SWRK 195B. Field Instruction + Integration Seminar.**

6 Units

Prerequisite(s): SWRK 95, SWRK 102, SWRK 125A, SWRK 125B, SWRK 140A, SWRK 140B, SWRK 195A and SWRK 150; and permission of the Field Director (or designee).

Corequisite(s): SWRK 140C

Term Typically Offered: Spring only

Two-semester sequence of instruction that takes place in an approved social service agency. Under the supervision of a certified field instructor, students demonstrate their ability to apply knowledge, skills, critical thinking and professional competencies required of undergraduate generalist social workers. Students are required to provide own transportation to and from agency.

Note: Enrollment is limited to students who have secured an approved field placement; Field placements begins in the first week of January.

Credit/No Credit

**SWRK 198. Co-Curricular Activities.**

1 - 3 Units

Prerequisite(s): Permission of the Undergraduate Social Work Coordinator.

Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and intellectual concerns of the Division of Social Work, including service on division policy-making committees and participation in ASI approved organizations.

Credit/No Credit

**SWRK 199. Special Problems.**

1 - 3 Units

Prerequisite(s): Approval of the faculty sponsor of the project and Division Chair.

Term Typically Offered: Fall, Spring

Independent research, project or directed reading.

Note: Open to students who are capable of independent work.

Credit/No Credit

**SWRK 202. Social Work and Diverse Populations.**

3 Units

Term Typically Offered: Fall, Spring

Prepares students to understand cultural and social diversity. Addresses theoretical and practice dimensions of social work with diverse and oppressed and vulnerable people for personal and social empowerment in behalf of human dignity and social justice.
Builds upon content of SWRK 204B and provides advanced knowledge and skills for mental health assessments, diagnosis and treatment and to provide long-term and acute mental health treatment, respond to acute trauma and indigent populations.

**Term Typically Offered:** Fall, Spring

**Corequisite(s):** SWRK 204B, SWRK 296B

**Note:** Enrollment is limited to students who have secured an approved Field placement.

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**SWRK 207A. Multi-Level Practice for Children & Families.**

3 Units

Builds upon content of SWRK 207A and provides advanced knowledge and skills in areas affecting children and families with a specific focus on training students in Child Protective Services, abuse, neglect and human trafficking.

**Term Typically Offered:** Fall only

**Corequisite(s):** SWRK 207A, SWRK 297A

**Note:** Enrollment is limited to students who have secured an approved Field placement.

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**SWRK 207B. Multi-Level Practice for Children & Families.**

3 Units

Builds upon content of SWRK 207A and provides advanced knowledge and skills in areas affecting children and families with a specific focus on training students in Child Protective Services, abuse, neglect and human trafficking.

**Term Typically Offered:** Spring only

**Corequisite(s):** SWRK 207A, SWRK 297B

**Note:** Enrollment is limited to students who have secured an approved Field placement.

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**SWRK 208A. Multi-Level Practice for Health & Aging.**

3 Units

Builds upon content of SWRK 208A and provides advanced knowledge and skills for hospital and hospice care, respond to the needs of Baby Boomers, support diversity in aging choices while assisting clients with management of health care, housing and quality of life optimization.

**Term Typically Offered:** Fall only

**Corequisite(s):** SWRK 208A, SWRK 298A

**Note:** Enrollment is limited to students who have secured an approved Field placement.

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**SWRK 208B. Multi-Level Practice for Health & Aging.**

3 Units

Builds upon content of SWRK 208B and provides advanced knowledge and skills for hospital and hospice care, respond to the needs of Baby Boomers, support diversity in aging choices while assisting clients with management of health care, housing and quality of life optimization.

**Term Typically Offered:** Spring only

**Corequisite(s):** SWRK 208A, SWRK 298B

**Note:** Enrollment is limited to students who have secured an approved Field placement.

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**SWRK 209. Social Work Practice I.**

3 Units

Building on the liberal arts framework and using the ecological model, this course introduces students to generalist social work practice with individuals, families, small groups, organizations, disadvantaged populations, communities, and society.

**Term Typically Offered:** Fall, Spring

**Corequisite(s):** SWRK 295A

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**SWRK 210. Methods of Social Research.**

3 Units

Examination of quantitative and qualitative methods of social work research. Includes problem formulation, selection of various conceptual frameworks, research designs, sampling, collecting data, experimental design and computer technology.

**Term Typically Offered:** Fall, Spring

**Prerequisite(s):** Undergraduate social statistics course.

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**SWRK 213. Public Child Welfare Practice.**

3 Units

Integrates the concepts and skills learned in Advanced Practice, Advanced Policy, and Research courses of the MSW program and applies to the specific client population of public child welfare agencies. Required for Title IV-E stipend students; open to others on basis of space availability.

**Term Typically Offered:** Fall, Spring

**Prerequisite(s):** SWRK 204A, SWRK 204B.

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**SWRK 215. Mediation & Restorative Justice.**

3 Units

The course examines the principles, policies, goals, and practice of mediation and restorative justice in social work settings including the adult and juvenile criminal justice systems, family court, child welfare, schools, mental health, health, and community dispute resolution centers. Students will learn mediation and restorative justice practice skills to work effectively with individuals as both clients and providers of services, as well as within various institutions, systems, and communities.

**Term Typically Offered:** Fall, Spring

**Prerequisite(s):** SWRK 204A, SWRK 204B.

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**SWRK 218. Chemical Dependence: Strategies and Tactics for Social Work Practice.**

3 Units

Designed to increase the sensitivity of graduate social work students to the major intervening variables contributing to the problem of chemical dependence in contemporary American society.
SWRK 219. Social Work Practice in Health Care Settings. 3 Units
Term Typically Offered: Fall, Spring
Provides intervention strategies useful in health care settings. Individual, family and group practice strategies are presented as well as discharge planning, advocacy, ethnically sensitive issues, and collaboration practice within hospital settings.

SWRK 221. Community Organizing Practice. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B or instructor permission.
Term Typically Offered: Fall, Spring
Focuses on intervention at the community level with a special emphasis on grass roots organizing and advocacy.

SWRK 222. DSM New Developments in Psychodiagnosis. 3 Units
Term Typically Offered: Fall, Spring
Designed to give practitioners and students hands-on experience in using the DSM IV Manual. Videotapes, case vignettes, and small group discussions used.

SWRK 224. Advanced Mental Health Practice. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B or instructor permission.
Term Typically Offered: Fall, Spring
Examines a variety of theoretical views on adaptations of childhood and adulthood with accompanying models for assessment and treatment. Explores current views on intra-psychic and interpersonal functioning utilized in mental health settings.

SWRK 225. Advanced Group Work Methods: Process and Intervention Strategies. 3 Units
Term Typically Offered: Fall, Spring
Covers small group theory and process, and group method in a variety of settings, with emphasis on group development.

SWRK 226. Family Intervention: Contemporary Issues in Social Work Practice. 3 Units
Term Typically Offered: Fall, Spring
Critically addresses the origins and contemporary context and models of interventions with families.

SWRK 228. Clinical Intervention in Sexual Abuse. 3 Units
Term Typically Offered: Fall, Spring
Presents an intervention system that can assist professionals to work with sexually abusive families and victims of sexual abuse. Assessment, planning, and treatment are described and methods of intervention demonstrated.

SWRK 232. Spirituality and Social Work. 3 Units
Term Typically Offered: Fall, Spring
Considers the role of spirituality in the socialization process of the professional as well as the client by examination of spirituality, values, ethics, principles, and philosophies as influences on personal and professional interactions.

SWRK 235A. Theoretical Bases of Social Behavior. 3 Units
Term Typically Offered: Fall, Spring
Examines the growth, change and interaction of individuals, families and groups, organizations, and communities with special attention to lifespan development and systems theory.

SWRK 235B. Theoretical Bases of Social Behavior. 3 Units
Prerequisite(s): SWRK 235A.
Term Typically Offered: Fall, Spring
Focuses on major personality theories; principal theories of health, illness and disordered behavior; child and family dynamics; and theories of group and organizational behavior.

SWRK 238A. Issues and Practice in Schools. 3 Units
Prerequisite(s): Admission to the College of Social Work Program.
Corequisite(s): SWRK 204C, SWRK 295C.
Term Typically Offered: Fall, Spring
Introduces the student to the field of school social work in its dynamic social, educational, legal, political, and human complexity. Examines the challenges of rapid social and demographic change in California as well as the need for restructuring education and innovative responses.

Note: Required for Pupil Personnel Services Credential.

SWRK 238B. Issues and Practice in Schools. 3 Units
Prerequisite(s): SWRK 204C, SWRK 238A, SWRK 295C.
Corequisite(s): SWRK 204D, SWRK 295D.
Term Typically Offered: Fall, Spring
Continuation of SWRK 238A, course examines classroom management, case assessment, alternative education practices, discipline and attendance law, impediments to individual development as well as case studies, interagency collaboration, new community partnerships, and media and high technology uses.

Note: Required for Pupil Personnel Services Credential.

SWRK 244. Working with LGBTQ+ Publics. 3 Units
Prerequisite(s): MSW I or II, or other graduate student. Paired.
Term Typically Offered: Spring only
This elective provides students with an in-depth understanding and critical framework to conduct applied work with individuals who are LGBTQ+ and their kinship networks and communities. Various perspectives (e.g., person-in-environment, historical, political, psychological, critical theory, intersectional) are utilized to better understand contemporary issues, social and health inequities, and lived experiences of LGBTQ+ people. Assignments deepen self-awareness in service of professional development. This course is open to upper division undergraduates of all majors, and to all graduate students.

SWRK 245. Death, Grief And Growth. 3 Units
Term Typically Offered: Fall, Spring
Death and the process of terminating life seen from the social, cultural, personal and medical perspectives. Comparisons of competing, contradictory or complementary views of death among specific religions, social classes, ethnic groups and superstitions and taboos connected with the dead.

SWRK 250. Social Welfare Policy and Services. 3 Units
Term Typically Offered: Fall, Spring
Analyzes contemporary social welfare policy and the ways in which policy is carried out through a broad spectrum of agencies and services, in a historical and philosophical context relevant to professional social workers. This course meets the foundation competencies of social welfare policies and services within the specific context of thinking, reading and writing in social work policy practice.

Note: Graduate Writing Intensive (GWI) course.
SWRK 252. Advanced Policy for Behavioral Health. 3 Units
Prerequisite(s): SWRK 250.
Term Typically Offered: Fall only
Builds on the foundation content of SWRK 250 with deeper knowledge of diverse theoretical and practical approaches to policy analysis, development, implementation, and evaluation to empower communities and individuals, to advance and protect human rights, and to optimize social justice. Focuses on behavorial Health policy and services, involuntary commitment, access to care and patients’ rights, financing and organization of Behavioral Health services, legislation and community engagement around Behavioral Health issues.

SWRK 253. Advanced Policy for Children & Families. 3 Units
Prerequisite(s): SWRK 250
Term Typically Offered: Fall only
Builds on the foundation content of SWRK 250 with deeper knowledge of diverse theoretical and practical approaches to policy analysis, development, implementation, and evaluation to empower communities and individuals, to advance and protect human rights, and to optimize social justice. Focuses on sociopolitical issues, laws and court decisions, history and role of government in public child welfare practice, children’s and parents’ rights, child custody, sexual abuse laws, and emancipation.

SWRK 254. Advanced Policy for Health & Aging. 3 Units
Prerequisite(s): SWRK 250
Term Typically Offered: Fall only
Builds on the foundation content of SWRK 250 with deeper knowledge of diverse theoretical and practical approaches to policy analysis, development, implementation, and evaluation to empower communities and individuals, to advance and protect human rights, and to optimize social justice. Focuses on policies and services for meeting the health, economic, psychological, and the social needs of the older adults and those in health care settings.

SWRK 258. Advanced Policy - Children and Families. 3 Units
Prerequisite(s): SWRK 251
Term Typically Offered: Fall, Spring
Building upon SWRK 251, this course examines the history of child and family services, introduces the students to theories and methods of policy analysis, and focuses on analysis of selected federal, state, and local policies specifically relevant to children and families, as well as how social workers influence policy formulation and implementation.
Note: Required for title IV-E students.

SWRK 259. International Social Work. 3 Units
Term Typically Offered: Fall, Spring
SWRK 261. Grant Writing and Resource Development. 3 Units
Term Typically Offered: Fall, Spring
Prepares students for resource and grant proposal development as well as grant project management and evaluation. Students will develop various skills including how to identify and communicate with appropriate funding sources conceptualize, write and submit a grant proposal prepare a grant budget; administer a grant funded program; and evaluate program outcomes, and peer reviews of grant proposals.

SWRK 262. Social Work Practice in Rehabilitation. 3 Units
Prerequisite(s): Admission to MHSA cohort and instructor permission.
Term Typically Offered: Fall, Spring
Reflects the current best practices of psychosocial rehabilitation, and pays particular attention to the nuances of those practice expectations within the context of the Mental Health Services Act of 2004. The course requirement for all students who are recipients of the mental health stipend in the Division of Social Work.

SWRK 268. Advanced Clinical Social Work with Older Adults. 3 Units
The focus of this course is on specialized practice with aging clientele. The curriculum is intended to help students adapt social work theory (person-in-environment), practice principles, standards and values to practice with older adults. This course includes a critical analysis of the theoretical underpinnings of gerontological thought and assists students to view aging through multiple perspectives with an examination of physiological, psychological and sociological phenomenon.

SWRK 295A. Field Instruction. 3 Units
Prerequisite(s): Must be classified graduate Social Work student and approval of the Field Director or designee.
Corequisite(s): SWRK 204A.
Term Typically Offered: Fall, Spring
Field Instruction
Note: Enrollment is limited to students who have secured an approved Field placement
Credit/No Credit

SWRK 295B. Field Instruction. 4 Units
Prerequisite(s): SWRK 295A and 295B; Must be classified graduate Social Work student and approval of the Field Director or designee.
Corequisite(s): SWRK 204B.
Term Typically Offered: Fall, Spring
Field Instruction
Note: Enrollment is limited to students who have secured an approved Field placement.
Credit/No Credit

SWRK 295E. Post Master’s Pupil Personnel Services Fieldwork. 3 Units
Prerequisite(s): Admission to Post Master’s PPS program.
Term Typically Offered: Fall, Spring
School based sites for the development of Pupil Personnel Services skills. Two days per week.
Credit/No Credit

SWRK 295F. Post Master’s Pupil Personnel Services Fieldwork. 3 Units
Prerequisite(s): Admission to Post Master’s PPS program.
Term Typically Offered: Fall, Spring
School based sites for the development of Pupil Personnel Services skills. Two days per week.
Credit/No Credit
SWRK 296A.  Field Instruction for Behavioral Health.  5 Units
Prerequisite(s): SWRK 204B, SWRK 295B
Corequisite(s): SWRK 206A
Term Typically Offered: Fall only

Field Instruction for Behavioral Health
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 296B.  Field Instruction for Behavioral Health.  5 Units
Prerequisite(s): SWRK 206A, SWRK 296A
Corequisite(s): SWRK 206B
Term Typically Offered: Spring only

Field Instruction for Behavioral Health
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 297A.  Field Instruction for Children & Families.  5 Units
Prerequisite(s): SWRK 204B, SWRK 295B.
Corequisite(s): SWRK 207A
Term Typically Offered: Fall only

Field Instruction for Children & Families
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 297B.  Field Instruction for Children & Families.  5 Units
Prerequisite(s): SWRK 207A, SWRK 297A.
Corequisite(s): SWRK 207B
Term Typically Offered: Spring only

Field Instruction for Children & Families
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 298A.  Field Instruction for Health & Aging.  5 Units
Prerequisite(s): SWRK 204B, SWRK 295B.
Corequisite(s): SWRK 208A
Term Typically Offered: Fall only

Field Instruction for Health & Aging
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 298B.  Field Instruction for Health & Aging.  5 Units
Prerequisite(s): SWRK 208A, SWRK 298A, and advancement to candidacy
Corequisite(s): SWRK 208B
Term Typically Offered: Spring only

Field Instruction for Health & Aging
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 299.  Special Problems.  1 - 3 Units
Prerequisite(s): Approval by faculty sponsor and division director.
Term Typically Offered: Fall, Spring

Individual research and directed reading. Written report required.
Credit/No Credit

SWRK 500.  Culminating Experience.  2 - 4 Units
Prerequisite(s): Advanced to candidacy. SWRK 210.
Term Typically Offered: Fall, Spring

Completion of either: A. Thesis (an original contribution to knowledge) OR B. Research Project (addition to technical/professional knowledge or application of knowledge through case study, field study, documentary report, substantial annotated bibliography, or article of publishable quality) OR C. Directed Study and Comprehensive Examination (seminar, portfolio, examination).

SWRK 501.  Advanced Research Methods.  2 Units
Prerequisite(s): SWRK 202, SWRK 204A, SWRK 204B, SWRK 210, SWRK 250 and Advancement to Candidacy
Term Typically Offered: Fall, Spring

This course offers a classroom structure to project-based research education. Class includes both qualitative and quantitative study design, theory construction, advanced methods of data analysis. This course expands on the knowledge gained from SWRK 210 (Methods of Research). Students will experience a mixture of advanced research content including: quantitative research designs, sampling, data collection and analysis, advanced quantitative research designs, sampling, data collection and analysis.

SWRK 502.  Integrative Capstone Project.  2 Units
Prerequisite(s): SWRK 501
Term Typically Offered: Fall, Spring

This course is designed to reflect the student's proficiency in the core competencies of the social work profession. The focus of this course is the identification of a social work problem, developing a research design which appropriately addresses the problem, and presentation of the findings. Students demonstrate professional competencies in: ethics, communication, diversity, theory, research, direct and indirect and indirect practice, leadership and organizational processes and evidence of a professional self.

BA in Social Work

Units required for Major: 48
Total units required for BA: 120

Program Description

The Bachelor of Arts in Social Work is a 48-unit program that prepares students for beginning, generalist Social Work practice. All lower division general education courses must be completed prior to beginning the
Social Work major. The curriculum consists of 42 units in professional foundation/beginning generalist requirement, 6 units of Social Work electives. Grades of "C" or better are required in all 48 units of the major. The student must agree to abide by the Code of Ethics of the National Association of Social Workers and engage in ethical practice in conformity with the Professional Code of Ethics.

Upon successful graduation with the BASW, graduated students will be able to, among other knowledge and skills, effectively demonstrate, apply, engage with, and evaluate the nine social work competencies that are mandated for accredited social work programs per the Council on Social Work Education. This will be demonstrated at the generalist level. The nine mandated competencies are: 1) Demonstrate ethical and professional behavior; 2) Engage diversity and difference in practice; 3) Advance human rights and social, economic, and environmental justice; 4) Engage in practice-informed research and research-informed practice; 5) Engage in policy practice; 6) Engage with individuals, families, groups, organizations, and communities; 7) Assess individuals, families, groups, organizations, and communities; 8) Intervene with individuals, families, groups, organizations, and communities; and, 9) Evaluate practice with individuals, families, groups, organizations, and communities.

Undergraduate students enroll in one academic year of field instruction (internship) during their senior year after successfully completing all prerequisites in their junior year. Field instruction is 16 hours per week for 32 weeks during two semesters for a total of 512 hours. Field instruction takes place between the hours of 8:00 a.m. - 5:00 p.m. on either Mondays/Wednesdays or Wednesdays/Fridays. Placements only begin in the fall semester and are arranged by the Director of Field Education during the preceding spring semester through an application and interview process. Students are placed in a social services agency and practice under the supervision of an experienced MSW Social Worker. Since Social Work is an applied profession, the student is expected to be able to put into practice the knowledge gained in the classroom in order to receive the BA degree in Social Work.

Students must be capable of meeting field site/organization eligibility requirements which normally include obtaining a Department of Justice clearance (passing a criminal background), being free of communicable diseases, having a valid driver's license, and automobile insurance. In addition to the prerequisites and corequisites noted below, other eligibility requirements are delineated in the Field Curriculum and Policy Guide which is accessible from the Division's website (http://www.hhs.csus.edu/swrk/field/). Declaration of Social Work as the student's major does not guarantee enrollment in field instruction.

Pre-Major Requirements for Social Work Undergraduate Program

The Pre-Major is a total of 12 units: 3 units from G.E. Area B2, 3 units in Area D (Part A), 3 units in Area D (Part B), and SWRK 95 (3 units).

Students who want to become a Pre-Major in Social Work are required to take the courses from the following three G.E. areas and SWRK 95 and earn a "B" grade or better ("B-" is not accepted). Students must also have at least 2.5 GPA to declare the major.

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SWRK 95</td>
<td>Introduction to Social Work</td>
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Required Lower Division Courses (3 Units)

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Required Upper Division Courses (45 Units)

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<tbody>
<tr>
<td>SWRK 102</td>
<td>Crosscultural Theory and Practice: Issues of Race, Gender and Class</td>
<td>3</td>
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<tr>
<td>SWRK 110</td>
<td>Statistics and Research for Social Workers</td>
<td>3</td>
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<tr>
<td>SWRK 111</td>
<td>Research Methods and Program Evaluation</td>
<td>3</td>
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<tr>
<td>SWRK 125A</td>
<td>Human Behavior and the Social Environment: Theory</td>
<td>3</td>
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<tr>
<td>SWRK 125B</td>
<td>Human Behavior and the Social Environment: The Life Course</td>
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<tr>
<td>SWRK 140A</td>
<td>Social Work Practice</td>
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<td>SWRK 140C</td>
<td>Social Work Practice</td>
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<tr>
<td>SWRK 150</td>
<td>Welfare In America</td>
<td>3</td>
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</table>

Recommended Lower Division Preparation

Completion of all lower division General Education requirements is a prerequisite for taking courses in the Social Work major. Lower division courses in the following areas are strongly recommended and most can be taken as part of completing GE requirements. These courses provide the basis for a Liberal Arts perspective which is required by the Council on Social Work Education, the accrediting organization for the professional Social Work degree: written communication; critical thinking; physical science; a biology course with human anatomy content; quantitative reasoning; world civilizations; introduction to the arts; humanities; psychology; sociology; cultural diversity; American Institutions; and foundations in social and behavioral sciences. Community college transfer students should consult a counselor to identify courses which qualify for General Education transfer credit.

Minimum Grade Requirement

Grades of "C" or better are required in all 48 units of the major.

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General Education Requirements

Select two of the following:

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<tbody>
<tr>
<td>SWRK 118</td>
<td>Chemical Dependency and Social Work Practice</td>
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<td>SWRK 126</td>
<td>Theories of Criminal Behavior</td>
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<tr>
<td>SWRK 129</td>
<td>Human Sexuality in Social Work Perspectives</td>
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<tr>
<td>SWRK 132</td>
<td>Social Work and Spirituality</td>
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<td>SWRK 134</td>
<td>Crimes Without Victims</td>
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<td>SWRK 136</td>
<td>Poverty and Homelessness in America</td>
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<td>SWRK 137</td>
<td>The Child and the Law</td>
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<td>SWRK 138</td>
<td>Violence In The Family</td>
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<td>SWRK 144/244</td>
<td>Working with LGBTQ+ Publics</td>
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<td>SWRK 151</td>
<td>Health Services and Systems</td>
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<td>SWRK 153</td>
<td>Child Welfare Services</td>
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<tr>
<td>SWRK 191</td>
<td>Exploration of Veteran Studies: An Ethnographic Approach</td>
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</tbody>
</table>

Total Units 48

1 Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements

<table>
<thead>
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<th>Code</th>
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<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
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<tr>
<td>A2</td>
<td>Written Communication</td>
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</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
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</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
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</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>2</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
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</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
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</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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Area D: The Individual and Society (0-3 Units)

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<thead>
<tr>
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<th>Title</th>
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</thead>
<tbody>
<tr>
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<td>D2</td>
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Area E: Understanding Personal Development (3 Units)

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<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>E1</td>
<td>Area E Course</td>
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Area F: Ethnic Studies (3 Units)

<table>
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<th>Code</th>
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<tbody>
<tr>
<td>F1</td>
<td>Area F Course</td>
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</tbody>
</table>

Total Units 40-43

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Department recommends BIO 1, BIO 10, BIO 20, or ANTH 1 to meet Area B2.

Department recommends ECON 1A, ECON 1B, PSYC 2, or SOC 1 to meet Area D (Part A).

Department recommends CRJ 1, GER 100, SOC 3, or SOC 10 to meet Area D (Part B).

Required in Major; also satisfies GE.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
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<td>Life Forms</td>
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<tr>
<td>C1</td>
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<td>D1</td>
<td>Area D Course</td>
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<td>E1</td>
<td>Area E Course</td>
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</table>

Master of Social Work

Total units required for MSW: 60

Program Description

The Master of Social Work program is a 60-unit program that prepares students for advanced, autonomous Social Work practice. The curriculum is composed of two semesters of professional foundation and two semesters of a specialized curriculum. In the foundation part of the
program, all students take a core of courses designed to provide them with the knowledge and skills expected of all professional Social Workers. The advanced curriculum prepares graduates for specialized practice in 1 of 3 areas: behavioral health; child, adolescent and family; or health and aging. The curriculum consists of a generalist practice foundation year and an advanced practice second year. Also required are advanced courses in Social Work practice and policy, and specialized practice electives are recommended.

Graduate students enroll for two years of field instruction. In the first year, they are assigned to a social service agency for two days a week (8 a.m. to 5 p.m., Thursday and Friday). First year students must be available Thursdays and Fridays (8 a.m. to 5 p.m.) for field instruction in order to complete the concurrent program. In the second year, they are assigned to an agency in their specialized practice area for three days a week (8 a.m. to 5 p.m., Monday, Tuesday, and Wednesday). These field instruction requirements may only be fulfilled during regular working hours. Students are responsible for their own transportation to field instruction sites and for required professional liability insurance.

Students must be capable of meeting field site/organization eligibility requirements which include obtaining a Department of Justice clearance (passing a criminal background), being free of communicable diseases, having a valid driver’s license, and automobile insurance. In addition to the prerequisites and corequisites noted below, other eligibility requirements are delineated in the Field Curriculum and Policy Guide which is accessible from the Division’s field website (http://csus.edu/hhs/sw/fieldeducation/). Admission into the graduate program does not guarantee enrollment in field instruction.

Students should develop a realistic plan for financial support for the period of time they are in school. Information about Financial Aid is included in the University’s Application for Admission booklet. The Division of Social Work cannot guarantee courses on days and times that will not conflict with employment hours. The program offers some courses on weekends and all required courses have at least one evening section. In addition to the two-year full time program, the division also offers a three-year program option, a weekend cohort program, and advanced placement.

Note: Please contact the Division of Social Work for a copy of the evaluation criteria for admission to the Master of Social Work program.

Admission Requirements
To be considered for admission to the Master of Social Work program, applicants must have:

- a baccalaureate degree from an accredited college or university;
- passed an approved course in statistics with a grade of "C" or better;
- completed a course with human biology content with a grade of "C" or better;
- a minimum GPA of 2.8 for the last 60 units of coursework;
- demonstrated writing proficiency; and
- completed the Liberal Arts foundation (GE requirements).

The Graduate Record Exam (Analytical Writing Score) is required.

The Analytical Writing score is weighted and combined with the last 60 unit GPA and the application review scores. There is no minimum score requirement for the GRE Analytical Writing Portion.

If admitted applicant scores less than 4.5 on the GRE Writing exam, she/he would not necessarily be eliminated from the pool, however, would be required to take and pass a writing intensive course in the summer, prior to Fall enrollment.

All applications are reviewed by Faculty Reviewers. Previous academic work, experience in human services, personal development, and potential for successful professional practice are important considerations in the evaluation of applicants.

Admission Procedures
Application materials are available from the Division of Social Work’s admissions office and our Web site at http://www.csus.edu/hhs/sw/msw/ mswappplication.html. For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

All applicants must complete an online university application for admission and a Sacramento State Division of Social Work Application.

Students rank their preferred specializations based upon the three options:

- Behavioral Health
- Children & Families
- Health & Aging.

All prospective graduate students, including Sacramento State graduates, must submit the following to the Division of Social Work Admissions Office:

- an application for admission and supplemental information needed by the Division of Social Work; including the choice of Specialized Area of practice in order of priority.
- an indication whether the application is for the two- or three-year program;
- three letters of recommendation from academic or employment references; and
- one set of unofficial transcripts from all colleges and universities attended, other than Sacramento State.

Applicants must submit the following to the Sacramento State Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all college and universities attended, other than Sacramento State.

Attendance at an advising session prior to the beginning of classes is required. Students unable to attend must make special arrangements for the initial advising prior to the beginning of courses.

Advanced Standing Program
The Advanced Standing Program is available to a limited number of students who have a baccalaureate degree in Social Work from a Social Work program accredited by the Council on Social Work Education. The minimum GPA is 3.3 in the Social Work major. Minimum grades of "B" or "C+" must have been earned in undergraduate professional foundation coursework. Students who have a GPA of 3.5 or higher but have one of their equivalent undergraduate courses with the grade of "B" may apply for advanced standing. The degree must have been awarded within five years prior to application for admission to the graduate program. Submission of a letter of recommendation from a field instructor and from a Social Work faculty member of the college from which graduated
and an acceptable research prospectus for a thesis/research project is required before awarding advanced placement. Advanced placement students take 32 units in the second year of the MSW program. Advanced placement is determined only during the admissions process.

Minimum Units and Grade Requirement for the Degree

Units require for the MSW: 60

Minimum Cumulative GPA: 3.0

Students must take all required courses in a prescribed, sequential order to advance to the next level of courses. The program is normally completed in four semesters of full time study, beginning in the fall semester (a three-year program is also available; requirements are the same). The program consists of 28 units of professional foundation common courses that all students must take and 32 units of the concentration curriculum which consists of advanced content and nine units of electives. **Graduate students who achieve a grade of "C-" or lower will not be able to credit that course toward their degree; and, must maintain a minimum 3.0 GPA to remain in the program. A student could receive two "C" grades in the Master's program and continue as long as their GPA does not go below a 3.0.**

**Note:** The faculty of the Division of Social Work may require a student to leave under specified terms, terminate a student's enrollment, or decline to award a degree if the Director of the Division, upon the recommendation of faculty, determines that this is in the best interests of the division or the community which it serves or that a student is not qualified for admission to the Social Work profession because of factors other than academic standing. Determination about factors other than academic standing are made in accordance with the NASW Code of Ethics and the Division of Social Work's Student Performance Standards.

All professional Social Work programs are required to provide foundation content that consists of the knowledge, values, and skills that are basic for practice in any setting situation, and which prepare one for more advanced, specialized learning. Six areas of study are introduced in the foundation: Social Work research, Social Work practice, human behavior in the social environment, social welfare policy, multicultural theory, practice, and field instruction.

In the second year of the program students will be asked to select from three specializations:

- Behavioral Health
- Children & Families
- Health & Aging

**Advancement to Candidacy**

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any grade deficiencies;
- completed at least 28 units; graduate students who achieve a grade of "C-" or lower will not be able to credit that course toward their degree;
- a minimum 3.0 GPA required
- obtained approval of culminating experience; and
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with his/her Advisor. The completed form is approved by the Division of Social Work, Graduate Director and the Office of Graduate Studies.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<td><strong>Professional Foundation Requirements (28 Units)</strong></td>
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<tr>
<td>SWRK 202</td>
<td>Social Work and Diverse Populations</td>
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<td>SWRK 204A</td>
<td>Social Work Practice I</td>
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<td>SWRK 204B</td>
<td>Social Work Practice II</td>
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<td>SWRK 210</td>
<td>Methods of Social Research</td>
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<tr>
<td>SWRK 235A</td>
<td>Theoretical Bases of Social Behavior</td>
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<td>SWRK 235B</td>
<td>Theoretical Bases of Social Behavior</td>
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<td>SWRK 250</td>
<td>Social Welfare Policy and Services</td>
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<td>SWRK 295A</td>
<td>Field Instruction</td>
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<td>SWRK 295B</td>
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<td><strong>Specialized Practice Requirements (19 Units)</strong></td>
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<tr>
<td>SWRK 206A</td>
<td>Multi-Level Practice for Behavioral Health</td>
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<td>SWRK 252</td>
<td>Advanced Policy for Behavioral Health</td>
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<td>SWRK 296A</td>
<td>Field Instruction for Behavioral Health</td>
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<td>SWRK 296B</td>
<td>Field Instruction for Behavioral Health</td>
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<tr>
<td>SWRK 207A</td>
<td>Multi-Level Practice for Children &amp; Families</td>
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<td>SWRK 207B</td>
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<td>SWRK 253</td>
<td>Advanced Policy for Children &amp; Families</td>
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<td>SWRK 297A</td>
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<td>SWRK 297B</td>
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<td><strong>Children and Families Specialization</strong></td>
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<tr>
<td>SWRK 208A</td>
<td>Multi-Level Practice for Health &amp; Aging</td>
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<td>SWRK 208B</td>
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<td>SWRK 254</td>
<td>Advanced Policy for Health &amp; Aging</td>
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<td>SWRK 213</td>
<td>Public Child Welfare Practice</td>
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<td>SWRK 215</td>
<td>Mediation &amp; Restorative Justice</td>
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<td>SWRK 219</td>
<td>Social Work Practice in Health Care Settings</td>
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<td>SWRK 218</td>
<td>Chemical Dependence: Strategies and Tactics for Social Work Practice</td>
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<td>SWRK 221</td>
<td>Community Organizing Practice</td>
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<td>SWRK 223</td>
<td>DSM New Developments in Psychodiagnosis</td>
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<td>SWRK 224</td>
<td>Advanced Mental Health Practice</td>
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<tr>
<td>SWRK 225</td>
<td>Advanced Group Work Methods: Process and Intervention Strategies</td>
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</table>
Advanced Standing Program Requirements

Experience within the student's selected area of specialized practice.

SWRK 502

Every effort is made to match the second year specialized area of practice student with a SWRK 502 experience that is designed as an advanced research experience within the student's selected area of specialized practice.

Advanced Standing Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
</table>

Specialized Practice Requirements (19 Units)

Select one area of specialization from the three listed below 19

Behavioral Health Specialization

SWRK 206A Multi-Level Practice for Behavioral Health
SWRK 206B Multi-Level Practice for Behavioral Health
SWRK 252 Advanced Policy for Behavioral Health
SWRK 296A Field Instruction for Behavioral Health
SWRK 296B Field Instruction for Behavioral Health

Children and Families Specialization

SWRK 207A Multi-Level Practice for Children & Families
SWRK 207B Multi-Level Practice for Children & Families
SWRK 253 Advanced Policy for Children & Families
SWRK 297A Field Instruction for Children & Families
SWRK 297B Field Instruction for Children & Families

Health and Aging Specialization

SWRK 208A Multi-Level Practice for Health & Aging
SWRK 208B Multi-Level Practice for Health & Aging
SWRK 254 Advanced Policy for Health & Aging
SWRK 298A Field Instruction for Health & Aging
SWRK 298B Field Instruction for Health & Aging

Specialized Areas of Practice Electives (not all electives are offered each semester) (9 Units)

Select a total of nine units 9

SWRK 213 Public Child Welfare Practice
SWRK 215 Mediation & Restorative Justice
SWRK 219 Social Work Practice in Health Care Settings
SWRK 218 Chemical Dependence: Strategies and Tactics for Social Work Practice
SWRK 221 Community Organizing Practice

Culminating Experience Choices (for all three specialized practice areas) (4-6 Units)

SWRK 500 Culminating Experience 2 - 4
or SWRK 501 Advanced Research Methods
SWRK 502 Integrative Capstone Project 2

Total Units 60-62

Every effort is made to match the second year specialized area of practice student with a SWRK 500, SWRK 501 or SWRK 502 experience that is designed as an advanced research experience within the student's selected area of specialized practice.

SWRK 223 DSM New Developments in Psychodiagnosis
SWRK 224 Advanced Mental Health Practice
SWRK 225 Advanced Group Work Methods: Process and Intervention Strategies
SWRK 226 Family Intervention: Contemporary Issues in Social Work Practice
SWRK 228 Clinical Intervention in Sexual Abuse
SWRK 232 Spirituality and Social Work
SWRK 244 Working with LGBTQ+ Publics
SWRK 245 Death, Grief And Growth
SWRK 258 Advanced Policy - Children and Families
SWRK 259 International Social Work
SWRK 261 Grant Writing and Resource Development
SWRK 262 Social Work Practice in Rehabilitation
SWRK 299 Special Problems

Culminating Experience Choices (for all three specialized practice areas) (4-6 Units)

SWRK 500 Culminating Experience 2 - 4
or SWRK 501 Advanced Research Methods
SWRK 502 Integrative Capstone Project 2

Total Units 32-34

Every effort is made to match the second year specialized area of practice student with a SWRK 500, SWRK 501 or SWRK 502 experience that is designed as an advanced research experience within the student's selected area of specialized practice.

College of Natural Sciences and Mathematics

College Overview

The College of Natural Sciences and Mathematics emphasizes hands on experience and interaction with professors. Students in the classroom have access to state-of-the art instruments and unique facilities such as the two-story anechoic chamber for measuring sound and the well field for monitoring ground water. The College offers strong academic programs in Biological Sciences, Chemistry, Geography, Geology, Mathematics and Statistics, and Physics and Astronomy.

The College's six academic departments collectively offer thirteen baccalaureate degree programs, eight minor concentrations, four teaching credential programs, four certificate programs, and six Master's degree programs, including the Professional Science Master's. Unique strengths of programs within the College include the following:

Program Descriptions

Program Descriptions

Biology

The Department of Biological Sciences offers a wide array of educational opportunities in biology. Students may enroll in programs designed to give broad training across the biological sciences and earn a Bachelor of Arts or Bachelor of Science degree in General Biology. Students wishing to specialize in a sub-discipline of biology may enroll in several
concentrations within the Bachelor of Science Program. Available concentrations include Biomedical Sciences, Cell and Molecular Biology, Clinical Laboratory Science, Forensic Biology, Microbiology, and Ecology, Evolution and Conservation. The Department also offers the Minor in Biological Sciences to students from other Departments. The location of Sacramento State is ideal for diverse field trip experiences from the Sierra to the Pacific as well as both laboratory and field internship opportunities with County, State, and Federal agencies. The Department also offers state-of-the-art laboratory facilities including students access to the Advanced Cell Analysis Laboratory, the Center for Interdisciplinary Molecular Biology, and Moss Landing Marine Laboratory.

At the Graduate level, the Department of Biological Sciences offers both general and specialized Masters of Arts and Masters of Science degree programs in biological Sciences. This includes a Masters of Arts degree in Stem Cell Biology, funded by the California Institute of Regenerative Medicine in collaboration with the University of California, Davis. The Department also offers Masters of Science concentrations in General Biology, Cell and Molecular Biology, and Ecology, Evolution and Conservation.

Graduates from the Department of Biological Sciences may pursue a variety of professions, including health and medicine, biotechnology and other laboratory-based research, and work with state and federal agencies. Many also pursue graduate education within one of the many sub-disciplines of biology.

Chemistry
Chemistry prepares students for a wide variety of careers in areas such as environmental chemistry and toxicology, materials science, government and industry labs, biotechnology, high school science teaching, medicine and related health sciences, pharmacy and pharmacology, patent law, computational chemistry, forensic analysis, and many more. The Department of Chemistry offers the BS in Chemistry (certified by the American Chemical Society), a BS in Biochemistry, and BA degrees including concentrations in Biochemistry and Forensic Chemistry. A Chemistry Minor is also offered. The Department offers an MS in Chemistry and an MS in Chemistry, Biochemistry concentration. A signature feature of our programs is the extensive, hands-on experience with modern instrumentation. Our graduates are known in the region for their knowledge and ability to operate instruments. Every undergraduate degree program includes a capstone laboratory research experience in one or more upper division labs which further prepares students for industry employment and preparation for PhD programs.

Geography
Geography prepares students to do mapping and spatial analysis, international work, planning, and environmental management. The Department of Geography offers a BA degree that provides each student both breadth and specialization. Four concentrations are available: Geographic Information Systems (GIS) and Analysis, Human Geography, Metropolitan Area Planning, and Physical Geography. The Department also offers minors in Geography and GIS. Strengths of the program include numerous opportunities for field work and internships.

Geology
Geology is an interdisciplinary science that examines the processes that shape Earth’s resources, hazards and environments. The Geology Department offers BA, BS, and MS degrees in Geology, a BA in Earth Science, and a Minor in Geology. This Department, in conjunction with the on-campus staff of the United States Geological Survey, offers excellent preparation for careers in Geology and graduate study.

Mathematics and Statistics
The Department of Mathematics and Statistics offers a variety of options to cater to the particular interests of its majors. The flexibility of the major allows students to pursue their BA degree in pure mathematics, applied mathematics and statistics, or the teaching program. Graduates have met with much success in finding employment in both the public and private sectors, particularly in high school teaching and local private industry. The Department also offers Minors in Mathematics and Statistics, and a MA degree for those who wish to pursue advanced study that can open opportunities to teach at the community college level, to pursue a PhD in mathematics, or to take jobs in industry or government.

Physics and Astronomy
The Department of Physics and Astronomy offers several degree options in Physics. The BS in Physics is suited for those planning to earn an advanced degree in physics or a related field. The BS with the Applied Physics Concentration combines advanced physics coursework with practical skills such as instrumentation and computing for careers in the high technology sector. Our traditional BA degree in physics provides a flexible, yet rigorous program in the liberal arts tradition, while those electing the BA with the Teacher Preparation Concentration will be very well prepared for a career as a high school or middle school educator. The Department also offers Minors in Physics and Astronomy and Certificates in Scientific Instrument Development and Scientific Computing and Simulation.

The College also supports a number of college-wide programs. Some of the larger ongoing programs are:

Center for Science and Math Success
The Center for Science and Math Success (Success Center) is housed in the College of Natural Sciences and Mathematics (NSM) and provides innovative and comprehensive student and academic support services to students in math and science courses. Programs include:

- Peer Assisted Learning (PAL) (https://www.csus.edu/college/natural-sciences-mathematics/peer-assisted-learning-program-pal/)
- Pre-STEM Teaching (https://www.csus.edu/college/natural-sciences-mathematics/center-science-math-success/pre-stem-teaching.html)
- Undergraduate Research (https://www.csus.edu/college/natural-sciences-mathematics/center-science-math-success/)

The Success Center empowers students to achieve their personal and professional goals through equity-based programs that cultivate lifelong learning skills, leadership development and a sense of belonging community. For more information, you can contact the Success Center via email (scienceandmathsuccess@csus.edu) or visit their website (https://www.csus.edu/college/natural-sciences-mathematics/center-science-math-success/).
Center for Mathematics and Science Education
The mission of the MASE Center at Sacramento State is to improve the quality of mathematics and science teaching and learning in the schools of the Sacramento region. The MASE Center supports faculty from the Colleges of Natural Sciences and Mathematics and Education to develop and administer professional development projects for K-12 teachers and education research grants to improve the teaching of math and science at all levels. The MASE Center houses the Sacramento Area Science Project and the Sacramento State Mathematics Project, and hosts monthly short courses for teachers such as Science in the River City (SIRC) and Mathematics Saturday Seminars. For more information, contact Director Rich Hedman at (916) 278-5487 or via email (hedmanrd@csus.edu). For more information about the Center for Mathematics and Science Education, please click here (http://www.csus.edu/mase/).

Moss Landing Marine Laboratories
Moss Landing Marine Laboratories are located on Monterey Bay. The facility is operated by a consortium of six California State University campuses and offers upper division and graduate courses in marine sciences.

Premedical and Preprofessional Programs
The College of Natural Sciences and Mathematics offers coursework which allows students to prepare for medical, dental, optometry, podiatry, pharmacy, and veterinary school. Information on the preparation necessary for entry into these health professions is found in the Premedical pages of this catalog.

Subject Matter Preparation (Pre-Credential Preparation)
California State University, Sacramento has programs for students who are interested in becoming high school or middle school teachers in science or mathematics. These programs consist of two parts: subject matter preparation programs (in which students learn the background in the subject matter they will teach) and credential programs (in which students develop the knowledge and skills related to how to teach). The College of Natural Sciences and Mathematics offers subject matter preparation programs in Biological Sciences, Chemistry, Mathematics, and Physics. Single Subject Teaching Credential programs are offered by the California State University, Sacramento College of Education. Additionally, California State University, Sacramento offers a blended program in mathematics, in which students work on their subject matter preparation and teaching credential at the same time. Information on subject matter programs in Biological Sciences, Chemistry, and Physics is found in the Science Subject Matter Program pages in this catalog. Information on the subject matter program in mathematics and the blended program in mathematics is found in the Mathematics and Statistics pages.

Departments/Programs
- Biological Sciences
- Chemistry
- Geography
- Geology
- Mathematics and Statistics
- Physics and Astronomy

Contact Information
- Lisa Hammersley, Dean
- Shannon Datwyler, Associate Dean, Interim (Student Success)
- Yinfa Ma, Associate Dean (Research & Engagement)
- Laura Emerson, Administrative Analyst/Specialist
- Michelle Williams, Assistant to the Dean
- Rose Castillo, Administrative Support Coordinator
- Naomi Robinson, Administrative Support Coordinator

For more information, visit the web site for the College of Natural Sciences and Mathematics (http://www.csus.edu/nsm/).

Biological Sciences
College of Natural Sciences and Mathematics

Program Description
The Department of Biological Sciences offers both undergraduate and graduate degree programs. At the undergraduate level, students are able to earn a Bachelor of Arts degree, a Bachelor of Science degree, or a Minor in Biological Sciences. Within the Bachelor of Science degree program students may focus their work by selecting one or more of the following concentrations: Biomedical Sciences, Cell and Molecular Biology, Clinical Laboratory Sciences, Ecology, Evolution and Conservation, Microbiology; or students may choose to obtain the Bachelor of Science in General Biology.

At the Graduate level, students may earn a Master of Arts or Master of Science degree in Biological Sciences and may also focus their work by pursuing a concentration in Ecology, Evolution, and Conservation or in Molecular and Cellular Biology within the Master of Science in Biological Sciences.

Degree Programs
BA in Biological Science (p. 811)
BS in Biological Science (p. 820)
BS in Biological Science (Biomedical Sciences) (p. 812)
BS in Biological Science (Cell and Molecular Biology) (p. 814)
BS in Biological Science (Clinical Laboratory) (p. 816)
BS in Biological Science (Ecology, Evolution, and Conservation) (p. 818)
BS in Biological Science (General Biology) (p. 820)
BS in Biological Science (Microbiology) (p. 822)
Biological Sciences Honors Program (p. 812)
Minor in Biological Science (p. 827)
Subject Matter Program (Pre-Credential Preparation) (p. 835)
Certificate in Issues in Natural Resource Management (p. 823)
Cooperative Education Program (Work Experience) (p. 824)
MA in Biological Science (General) (p. 826)
MA in Biological Science (Stem Cell) (p. 824)
MS in Biological Science (Ecology, Evolution, and Conservation) (p. 827)
MS in Biological Science (General) (p. 831)
MS in Biological Science (Molecular and Cellular Biology) (p. 829)

Special Features

• Laboratory experiences are included with most major’s courses, giving students an exceptional level of on-hands training during the degree program.
• The Department maintains a large collection of thousands of living and preserved plants and animals that are used for instruction, research, and public outreach. A complete list of the Department’s current collections can be found on the Department’s webpage.
• Students have the opportunity to engage in research in a wide range of projects with individual faculty and through the courses affiliated with the SIRIUS Project.
• The campus is located on the American River with the Sierra Nevada and Pacific Coast equally accessible, providing field biology students the opportunity to study an extraordinary number of varied habitats.
• Sacramento State is one of the seven participating CSU campuses at Moss Landing Marine Laboratories (MLML) near Monterey.
• Located in the State Capital, Sacramento State provides a unique opportunity for students to become involved with various State and Federal agencies through biological internships and employment.
• Public agencies, hospitals, clinics, and private health practices in the Sacramento area provide opportunities for students interested in the health care fields.

Contact Information
Jamie Kneitel, Department Chair
Nancy Angell, Administrative Support Coordinator
TSC 3000
(916) 278-6535
Department of Biological Sciences Website (http://www.csus.edu/bios/)

Faculty

ALTMAN, ROBIN
BALLERINI, EVANGELINE
BAXTER, JAMES W.
COLEMAN, RONALD M.
COLLINS, CLINT
CRAWFORD, ROB
DATWYLER, SHANNON L.
DAVIDSON, TIMOTHY
DAVIDYAN, ARIK
DOTY, ANNA C.
GILKERSON, JONATHAN
GLEASON, LANI
GONZALEZ-ORTA, ENID T.
HOLLAND, BRETT T.
KIRVAN, CHRISTINE A.
KNEITEL, JAMIE M.
LINDGREN, SUSANNE W.
LOPEZ, CHRIS
LUNDMARK, JENNIFER ANN
MCDONALD, KELLY
MUJERJ, JOYA
MULLIGAN, KIMBERLY
NGUYEN, HAO
OLSAN, ERIN
PEAVY, THOMAS R.
PITZER, JR., JIMMY
REAMS, ANDREW
RECHS, ADAM J.
VISGER, CLAYTON J.
WRIGHT, T. MICHAEL

BIO 1. Biodiversity, Evolution and Ecology. 5 Units
General Education Area/Graduation Requirement: Life Forms (B2), Laboratory (B3)
Term Typically Offered: Fall, Spring, Summer
Introduction to properties of life and cells leading to genetic and biological diversity. Survey of biological diversity emphasizing variation leading to natural selection; introduction to ecological concepts within an evolutionary framework; a survey of ecosystems and global climate change. Development of scientific skills will be emphasized. Designed for science majors. Lecture three hours; laboratory three hours; activity two hours; fee course.
Note: Field trips may be required.
Fee course.
Field trip(s) may be required.

BIO 2. Cells, Molecules and Genes. 5 Units
Prerequisite(s): BIO 1 and CHEM 1A.
Term Typically Offered: Fall, Spring
Introduction to molecular and cellular biology and genetics. Topics include biomolecules, cell structure and function, cellular energetics, molecular flow of information, cell division, and genetic inheritance. Development of scientific skills and a scientific mindset will be emphasized throughout the course, particularly in lab exercises and activities. Designed for science majors. Lecture three hours; laboratory three hours; activity two hours.
BIO 7.  Introduction to the Science of Biology.  4 Units
General Education Area/Graduation Requirement: Laboratory (B3), Life Forms (B2)
Term Typically Offered: Fall, Spring

Introduction to major concepts of biology, including properties of living things, cells and their molecular constituents, the unity and diversity of organisms, genetics, ecology, evolution, and the scientific methods of investigation employed by biologists. Satisfies requirements in biology for students planning to obtain the Multiple Subject Teaching Credential. Lecture three hours; laboratory three hours. Fee course.

BIO 9.  Our Living World: Evolution, Ecology and Behavior.  3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring

Designed for non-majors, this course is an introduction to the biological science behind important issues that face us today, such as those surrounding evolution, endangered species, conservation of ecosystems, and the behavior of organisms. By gaining an understanding of the scientific approach and the principles of evolution, ecology and behavior, students will be equipped to evaluate scientific developments and arguments in these and other issues as informed citizens. Lecture three hours.

Note: Not open to Biological Sciences majors or students who have received credit for BIO 1 or BIO 2.

BIO 10.  Basic Biological Concepts.  3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring

An intensive introductory course for non-majors who will take additional course work in biology or related disciplines, including the allied health sciences. Introduction to the biological sciences with strong emphasis on cellular structure and metabolism, molecular biology and genetics, as well as concepts and principles common to all living systems including ecology and evolution. Lecture three hours.

Note: Not open to Biological Sciences majors or students who have received credit for BIO 1 or BIO 2.

BIO 15L.  Laboratory Investigations in Biology.  1 Unit
Prerequisite(s): BIO 9, BIO 10 or BIO 20.
Corequisite(s): BIO 9, BIO 10 or BIO 20.
General Education Area/Graduation Requirement: Laboratory (B3)
Term Typically Offered: Fall, Spring

Introductory laboratory investigation of the major principles of biology, including properties of all living things, the unity and diversity of organisms, structure and function of cells, energy and metabolism, genetics, ecology, evolution, and the scientific methods of investigation employed by biologists. Laboratory three hours.

Note: Not open to Biological Sciences majors or students who have received credit for BIO 1 or BIO 2.

BIO 20.  Biology: A Human Perspective.  3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring

Introduction to biological concepts with emphasis on their application to humans. Topics include: Evidenced-based decision making with respect to food, nutritional supplements, drugs, pathogens, and biotechnology. How heredity and evolution contribute to our understanding of personality, sex, behavior, addiction, disease, and aging is also discussed. Lecture three hours.

Note: Not open to majors in biological sciences and/or students who have received credit for BIO 10.

BIO 22.  Introductory Human Anatomy.  4 Units
Prerequisite(s): BIO 1, BIO 2 or BIO 10
Term Typically Offered: Fall, Spring

Introduction to the study of the gross and microscopic structure of the human body using a systemic approach. Lecture three hours; laboratory three hours. Fee course.

Fee course.

BIO 25.  Human Anatomy and Physiology I.  4 Units
Term Typically Offered: Fall, Spring

BIO 25/26 series provides an introduction to the structure and function of the major organ systems of the human body. BIO 25 offers basic terminology and concepts pertaining to the disciplines of anatomy and physiology, including structure/function relationships, homeostasis, and organizational levels; and provides an introduction to the structure and function of the muscular and nervous systems.

Note: Not open to students who have successfully completed BIO 22 and BIO 131, or an equivalent combination of separate anatomy and physiology courses. Lecture three hours; laboratory three hours. Fee course.

Fee course.

BIO 26.  Human Anatomy and Physiology II.  4 Units
Prerequisite(s): BIO 25 or instructor permission.
Term Typically Offered: Fall, Spring

BIO 25/26 series provides an introduction to the structure and function of the major organ systems of the human body. BIO 26 provides an introduction to the structure and function of the cardiovascular, respiratory, renal and digestive systems, and emphasizes homeostatic control mechanisms.

Note: Not open to students who have successfully completed BIO 22 and BIO 131, or an equivalent combination of separate anatomy and physiology courses. Lecture three hours; laboratory three hours. Fee course.

Fee course.

BIO 30.  Anatomy & Physiology - Brief Course.  4 Units
Prerequisite(s): Physical Education majors only
Term Typically Offered: Fall, Spring

An overview of the basic anatomy and physiology of all systems. Designed to meet the standards for the Physical Education Subject Matter Program, but may also may prepare students for study in other health-related fields.
BIO 39. Microbiology for Allied Health Students. 4 Units
Prerequisite(s): BIO 10; CHEM 5 or CHEM 6A and CHEM 6B or equivalent.
Term Typically Offered: Fall, Spring

Introduction to micro-organisms, particularly bacteria and viruses, with emphasis on health care-related applications of microbiology using case studies. Laboratory work includes aseptic techniques, methods of cultivating and identifying bacteria, demonstration of microbial properties and will provide practice with basic microbiological skills. Lecture three hours; laboratory three hours. Fee Course.
Note: Does not satisfy microbiology requirement for Biological Sciences majors.

Fee course.

BIO 100. Introduction to Scientific Analysis. 3 Units
Prerequisite(s): BIO 1, BIO 2, and STAT 1; declared Biological Sciences majors only or instructor consent.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Prepares students for upper division Biology coursework and careers in science using a curriculum centered on critical thinking and evidence-based instruction and activities. Covers core competencies required for the practice of science: 1) evaluative reading, 2) written and oral communication, 3) analysis/quantitative reasoning, and 4) experimental design. Online lecture two hours. In-person laboratory three hours.
Note: Course cannot be taken concurrently with or after taking BIO 167.

BIO 102. The Natural History of Plants. 3 Units
Prerequisite(s): A college course in biology or instructor permission.
Term Typically Offered: Fall, Spring

Major plant communities of California provide a framework for understanding the interrelationships of natural environments and the dominant trees and shrubs of these areas. Identification of these species and the wildflowers of the communities are emphasized in the lab and field trips. Designed for minors in biology or for those with an interest in their natural surroundings, but is acceptable for majors who have not completed BIO 112. Lecture one hour; laboratory six hours. Fee course.
Fee course.
Field trip(s) may be required.

BIO 103. Plants and Civilization. 3 Units
Prerequisite(s): BIO 10 or equivalent.
Term Typically Offered: Fall, Spring

Study of the significance of plants in the development of human civilization. Emphasis will be placed on the botanical, sociological and economic aspects of plants useful to humans. Lecture three hours.

BIO 104. Physiology of Human Reproduction. 3 Units
Prerequisite(s): BIO 1, BIO 2 or BIO 10.
Term Typically Offered: Fall only

Study of the physiology of human reproduction. Topics to be covered include: gametogenesis, the basis of fertility, conception, prenatal development, parturition, lactation and the physiology of contraception. Lecture three hours.

BIO 105. Life in the Ocean. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Study of marine life and ocean ecosystems. Exploration of the unique adaptations of marine life, how marine organisms interact with their environment, diversity of marine habitats from coral reefs to deep sea, and conservation. Does not count toward the Biological Sciences Major.

BIO 106. Genetics: From Mendel to Molecules. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the principles of genetics and scientific approaches used to define those principles. The physical basis of heredity, the impact of selective breeding and genetic engineering will be discussed. Lecture two hours; discussion one hour.
Note: BIO 10 recommended.

BIO 109. Biology of Dinosaurs. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Introduction to the biology of the dinosaurs. Dinosaurs came in a vast array of shapes and sizes and exemplify biodiversity. This course will examine the dinosaurs in an evolutionary framework, discussing their origin, the major lineages, phylogeny and what they look like today. The course will take advantage of the recent surge in scientific investigations into the biology of dinosaurs, such as parental care, sexual selection, group living, flight and feathers. Does not count toward the Biological Sciences Major.

BIO 112. Plant Taxonomy. 4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Spring flora of central California is used as the focus of study in the classification and identification of native vascular plants. Lecture two hours; laboratory six hours. Field trips may be required. Fee course.
Fee course.
Field trip(s) may be required.

BIO 113. Evolution and Speciation in Flowering Plants. 3 Units
Prerequisite(s): BIO 1 and BIO 2 or equivalent.
Term Typically Offered: Fall only – even years

A survey of the important tools and mechanisms used to study speciation in plants. Topics include the molecular basis of evolutionary change, intraspecific genetic variation at both the local and landscape levels, theory regarding mechanisms of speciation, and the importance of polyploidy. Readings will be from both a text and from the primary literature, and will include in-depth discussions of historical and modern studies in plant evolution. Lecture three hours.

BIO 115. Introduction to Neuroscience. 4 Units
Prerequisite(s): PSYC 2 and PSYC 8; PSYC or BIO majors only. PSYC 9 recommended.
Term Typically Offered: Fall, Spring

Investigation of the structure and function of the central nervous system including neuroanatomy and neurophysiology, sensorimotor integration. The lectures and readings emphasize the empirical questions, techniques and methods used in neuroscience research. Laboratory exercises focus on gross- and micro- neuroanatomy, models of membrane electrophysiology and motor system function. Lecture/discussion three hours; laboratory three hours.
Cross Listed: PSYC 115; only one may be counted for credit.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Term Typically Offered</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 118</td>
<td>Natural Resource Conservation.</td>
<td>3</td>
<td>BIO 1 and BIO 2.</td>
<td>Fall only</td>
<td>Introduction to the principles and practices of biological conservation. Historical development of conservation philosophy; current issues in conservation of renewable natural resources; conservation administration. Lecture three hours.</td>
</tr>
<tr>
<td>BIO 120</td>
<td>Biology of Aging</td>
<td>3</td>
<td>BIO 1, BIO 2, BIO 10 or BIO 20.</td>
<td>Fall, Spring</td>
<td>Theories of aging, cellular aging and aging effects on the various human body systems. Lecture three hours. <strong>Note:</strong> Not open for credit to students who have previously taken BIO 131.</td>
</tr>
<tr>
<td>BIO 121</td>
<td>Molecular Cell Biology</td>
<td>3</td>
<td>BIO 184</td>
<td>Fall, Spring</td>
<td>Comparison of the cellular and molecular biology of prokaryotic and eukaryotic cells. Emphasis will be placed on membrane structures, transport phenomena, cell to cell communication, cellular reproduction, genetic architecture, gene expression and metabolism, as well as the eukaryotic endomembrane, cytoskeleton and extracellular matrix systems. Lecture three hours.</td>
</tr>
<tr>
<td>BIO 122</td>
<td>Advanced Human Anatomy</td>
<td>4</td>
<td>BIO 2</td>
<td>Fall only</td>
<td>Gross structure of the human body using a regional approach. Lecture three hours; laboratory three hours. Fee course.</td>
</tr>
<tr>
<td>BIO 123</td>
<td>Neuroanatomy</td>
<td>3</td>
<td>BIO 2</td>
<td>Fall only</td>
<td>Gross and microscopic structures of the central, peripheral and autonomic nervous systems. The lectures are correlated with laboratory exercises and demonstrations using human prospected cadaver specimens, audio-visual slide projected materials, charts and models. Lecture two hours; laboratory three hours. Fee course.</td>
</tr>
<tr>
<td>BIO 124</td>
<td>Clinical Hematology</td>
<td>3</td>
<td>CHEM 161 and BIO 184</td>
<td>Spring only</td>
<td>Basic principles and current clinical laboratory procedures used in the study of blood; emphasis on morphological and chemical changes in the disease processes. Lecture two hours; laboratory three hours. Fee course.</td>
</tr>
<tr>
<td>BIO 125</td>
<td>Body Fluid Analysis</td>
<td>1</td>
<td>CHEM 161 or instructor permission.</td>
<td>Fall only</td>
<td>Production of body fluids (e.g., urine, cerebrospinal, pleural, peritoneal, pericardial, and synovial fluids); their normal characteristics and pathological changes will be discussed. A description of the laboratory tests used in the clinical evaluation of body fluids will also be presented.</td>
</tr>
<tr>
<td>BIO 126</td>
<td>Comparative Vertebrate Morphology</td>
<td>3</td>
<td>BIO 1 and BIO 2.</td>
<td>Spring only</td>
<td>Study of the anatomical systems of vertebrates in an evolutionary and functional context. Covers vertebrate form, function, development and phylogeny, overviews of organ systems, and how their modification founded the major events of vertebrate evolution including metamorphosis, water-to-land transition, tetrapodal locomotion, feeding and reproduction. Labs complement lectures with dissections of three representative species (shark, salamander, cat), and surveys of specializations in other forms. Lecture two hours; laboratory three hours. Fee course.</td>
</tr>
<tr>
<td>BIO 127</td>
<td>Developmental Biology</td>
<td>4</td>
<td>BIO 2 AND BIO 184</td>
<td>Fall only</td>
<td>This course examines the progression of fertilized eggs of vertebrate organisms through embryonic development. This progression will be studied at biochemical, molecular, genetic, morphological and physiological levels, with an emphasis on the progressive changes that occur within cells, tissues and organs in the embryo. We will use a comparative approach between a variety of model organisms to understand similarities and differences among vertebrate and selected invertebrate species. Fee course.</td>
</tr>
<tr>
<td>BIO 128</td>
<td>Plant Anatomy and Physiology</td>
<td>4</td>
<td>BIO 1 and BIO 2.</td>
<td>Spring only</td>
<td>An integrative examination of our current understanding of plant structure and function. Students will apply fundamental principles of cell and molecular biology, evolution, and ecology to understand the relationships between plant anatomy and plant physiology that have enabled plants to achieve such a high level of success as primary producers on our planet. Lecture three hours, laboratory three hours. Fee course.</td>
</tr>
<tr>
<td>BIO 130</td>
<td>Histology</td>
<td>3</td>
<td>BIO 2</td>
<td>Fall only</td>
<td>Study of the morphology and physiology of cells in primary normal human tissues and the arrangement and adaptations of tissues in organs and organ systems. The characteristics and properties of abnormalities in human tissues will be covered if time permits. Lecture two hours; laboratory three hours.</td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
<td>4</td>
<td>CHEM 1B or CHEM 6B and BIO 1 or BIO 2 or BIO 10 or BIO 22.</td>
<td>Fall, Spring</td>
<td>Physiology of organ systems with emphasis on control and integration of system function. Experiments using humans and selected vertebrate animal models are performed in the laboratory to illustrate functional characteristics of organ systems discussed in lecture and to provide direct experience with techniques, recording systems, and methods of data analysis commonly used in physiology and related fields. Lecture three hours; laboratory three hours. Fee course.</td>
</tr>
</tbody>
</table>
BIO 131A. Advanced Problems in Physiology. 1 Unit
Corequisite(s): BIO 131
Term Typically Offered: Fall, Spring

Advanced problem-solving in physiology designed for students concurrently enrolled in BIO 131. Students explore solutions to challenging problem sets under the direct supervision of an experienced section leader. Discussion: two hours.
Credit/No Credit

BIO 132. Neurophysiology. 3 Units
Prerequisite(s): BIO 131 or both BIO 25 and BIO 26.
Term Typically Offered: Fall, Spring

Organization and function of the nervous system will be explored. Topics include mechanisms of communication between neurons, integration of sensory and motor systems, and functional brain systems. Diseased states will be introduced, as appropriate. Lecture three hours.

BIO 133. Cardiovascular, Respiratory and Renal Physiology. 3 Units
Prerequisite(s): BIO 131.
Term Typically Offered: Fall only

Advanced consideration of the integrated physiology of the cardiovascular, respiratory, and renal systems, including acid-base physiology. Advanced problem-solving, analysis of case studies, and interpretation of experimental findings will be included. Lecture three hours.

BIO 134. Medical Mycology. 3 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Spring only – even years

Study of the morphology, cultural characteristics and classification of fungi which are pathogenic for humans, as well as fungi which appear as common contaminants. Lecture two hours; laboratory three hours. Fee course.

BIO 135. Endocrinology. 3 Units
Prerequisite(s): BIO 121.
Term Typically Offered: Fall only

Advanced consideration of the principles of endocrinology with special emphasis on the role of hormones in growth, metabolism, stress (including the hormonal interactions during exercise) and disease. Various endocrine disorders, will serve as the model for case studies, current literature analysis and advanced problem-solving activities. Lecture three hours.

BIO 139. General Microbiology. 4 Units
Prerequisite(s): BIO 184; CHEM 20 or CHEM 24
Term Typically Offered: Fall, Spring

Introduction to microorganisms, particularly bacteria and viruses, their physiology and metabolism. Laboratory work includes aseptic techniques, methods of cultivating and identifying bacteria, and demonstration of microbial properties. Lecture three hours; laboratory three hours. Fee course.

BIO 140. Medical Microbiology and Emerging Infectious Diseases. 3 Units
Prerequisite(s): BIO 39 or BIO 139.
Term Typically Offered: Spring only

Lectures, discussions, and readings regarding infectious viruses, bacteria, fungi, and parasites, with an emphasis on highly relevant pathogens including emerging infectious agents and microbes that are regionally endemic. The clinical syndrome, along with the molecular and cellular aspects of the course of infection of each pathogen will be discussed. Additionally, the history of microbiology and medicine as well as a brief overview of laboratory methods used for diagnosis will also be covered. Lecture three hours.
Note: BIO 140 cannot substitute for BIO 144 in the CLS concentration in Biological Sciences.

BIO 143. General Virology. 3 Units
Prerequisite(s): BIO 121 and BIO 139
Term Typically Offered: Spring only

Lectures and demonstrations on the fundamental characteristics and properties of plant, animal and bacterial viruses. Lecture three hours.

BIO 144. Pathogenic Bacteriology. 4 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Fall only

Morphological, physiological and immunological characteristics of pathogenic bacteria. In the laboratory, pure culture studies are emphasized. Lecture two hours; laboratory six hours. Fee course.

BIO 145. The Diversity of Microorganisms. 4 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Spring only

Isolation, cultivation and characterization of a wide variety of soil and water microbes from natural habitats using a variety of culture and non-cultural based techniques; natural habitats also will be examined directly for the numbers and varieties of microbes which are present using bioinformatic and statistical tools. Lecture two hours; laboratory six hours.

BIO 149A. Immunology. 3 Units
Prerequisite(s): BIO 121 and BIO 139
Term Typically Offered: Fall only

Nature of antigens, antibodies and their reactions. The development of the immune response and its role in immunity and pathology. Lecture two hours.

BIO 149B. Immunology and Serology Laboratory. 1 Unit
Prerequisite(s): BIO 139, BIO 149A.
Term Typically Offered: Not offered

Laboratory exercises designed to provide familiarity with common clinical laboratory procedures in serology. Laboratory three hours. Fee course.
Fee course.
BIO 149C. Advanced Problems in Immunology. 1 Unit
Prerequisite(s): BIO 139 and CHEM 161.
Corequisite(s): BIO 149A.
Term Typically Offered: Fall only

Advanced problem-solving in immunology designed for students concurrently enrolled in BIO 149A. Discussions and problem sets are focused on the medical, clinical, and biotechnology applications of immunology. Discussion one hour.

Credit/No Credit

BIO 150. Forensic Biology. 3 Units
Prerequisite(s): BIO 1, BIO 2 and BIO 184.
Term Typically Offered: Spring only

Principles governing the application of biology and biological statistics to solve crimes. Topics include evidence examination and preservation, presumptive and confirmatory serological tests, hair comparison, generation and statistical analysis of mitochondrial and nuclear DNA profiles, structure and administration of the modern crime laboratory, and the role of the criminalist in the U.S. court system. Lecture two hours; laboratory three hours.

Fee course.

Note: Not offered every semester

BIO 151. Advanced Laboratory Techniques in Forensic Biology. 2 Units
Prerequisite(s): BIO 150 or instructor permission.
Term Typically Offered: Fall only

Laboratory exercises focusing on current research problems and skills in forensic serology, DNA typing, and court testimony. Topics will include DNA mixture and low copy number interpretation, advanced techniques in serological testing, research ethics, as well as skills for effective communication in the courtroom. Topics may also include Y-STR typing, animal and plant DNA identification and typing, microbial forensics, somatic mosaicism, ELISA specificity and sensitivity testing, and other current areas of active inquiry. Designed to prepare students for entry level positions as DNA analysts in federal, state, and local crime laboratories. Laboratory six hours. Fee course.

Fee course.

BIO 152. Human Parasitology. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Examines, in detail, the most important species of protozoans, flukes, tapeworms and roundworms that infect humans. Life cycles, pathology and prophylaxis constitue the principal topics in lectures. Morphology, physiology, taxonomy and diagnosis constitute the principal topics in the laboratory. Lecture two hours; laboratory three hours. Fee course.

Fee course.

BIO 155. Food Microbiology. 3 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Fall, Spring

Microbiology of food fermentations, food preservation and spoilage. Lecture two hours; laboratory three hours. Fee course.

Fee course.
BIO 166.  Ornithology.  3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only – odd years

Biology of birds: structure, physiology, ecology, behavior, and classification. Methods of life history study, ecological studies, laboratory and field identification. Lecture two hours; laboratory three hours. Field trips required. Fee course.

Field trip(s) may be required.

BIO 167.  Quantitative Methods in Biology.  3 Units
Prerequisite(s): STAT 1 and BIO 100 or graduate status
Term Typically Offered: Spring only

Focuses on statistical hypothesis testing and experimental design in the biological sciences. Topics include the development of a hypothesis, study design and implementation, management and presentation of data, identification of data types, and appropriate use of statistical procedures. General application to a wide range of biological disciplines and will emphasize the scientific process, critical thinking skills, and the interpretation of statistical results, which will include a project culminating a scientific paper and presentation. Lecture two hours; laboratory three hours.

BIO 168.  Mammalogy.  4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only

Biology of mammals: structure, physiology, ecology, behavior, classification. Methods of life history, laboratory and field identification, collection and preservation. Lecture three hours; laboratory three hours. Field trips required. Fee course.

Fee course.

Field trip(s) may be required.

BIO 169.  Animal Behavior.  3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Introduction to the fascinating world of why animals do the things that they do. Focus is on the evolution and function of animal behavior through understanding the costs and benefits of different behavior including foraging, fighting and reproduction. Lecture two hours; laboratory three hours. Fee course.

Fee course.

BIO 170.  Advanced Nutrition and Metabolism.  3 Units
Prerequisite(s): CHEM 161, FACS 113; or instructor permission.
Term Typically Offered: Spring only – odd years

Study of the physiologic function of carbohydrates, lipids, protein and micronutrients including integrated metabolism, transport, regulation and relation to inborn errors/chronic disease. Introduction to gene-nutrient interaction.

Cross Listed: FACS 170; only one may be counted for credit.

BIO 171.  Principles of Fisheries Biology.  3 Units
Prerequisite(s): BIO 160, STAT 1.
Term Typically Offered: Fall only – odd years

Introduction to the biological principles basic to fisheries science, including enumeration, recruitment, growth, abundance and mortality. Mathematics, computer modeling, and field methods will be used to understand natural populations and the impact of fishing on those populations in keeping with modern approaches to fisheries science which are grounded in population ecology and conservation biology. Lecture two hours; laboratory three hours. Fee course.

Fee course.

BIO 172.  Marine Biology.  3 Units
Prerequisite(s): BIOS 160
Corequisite(s): BIO 188
Term Typically Offered: Spring

BIO 173.  Molecular Ecology.  4 Units
Prerequisite(s): BIO 184
Corequisite(s): BIO 188
Term Typically Offered: Fall, Spring

A survey of the use of molecular tools to understand ecological questions. Lecture will focus on the background and history of the use of molecular tools in ecological settings, including application of molecular tools to conservation of natural resources. Laboratory will include techniques for both wet lab and analysis of molecular data, including interpretation of results. Students will complete a capstone-style project that will culminate in the production of a research proposal.

BIO 174.  Conservation Biology & Wildlife Management.  3 Units
Prerequisite(s): BIO 100. BIO 160 recommended. Or instructor permission. Paired
Term Typically Offered: Spring only

Study of human effects and management of ecological systems, including populations, communities, and ecosystems. Topics include population and biodiversity responses to human activities, endangered species management, reserve design, and restoration. Paired course with BIO 279.

Note: Lecture two hours; laboratory and fieldwork three hours; meets in the same location with the same instructor as Bio 279; course cannot be taken concurrently with or after taking BIO 279; Bio 279 cannot be taken in the graduate program after completing Bio 179.

BIO 175.  Principles of Fisheries Management.  4 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Fall, Spring

Introduction to the biological principles basic to fisheries science, including enumeration, recruitment, growth, abundance and mortality. Mathematics, computer modeling, and field methods will be used to understand natural populations and the impact of fishing on those populations in keeping with modern approaches to fisheries science which are grounded in population ecology and conservation biology. Lecture two hours; laboratory three hours. Fee course.

Fee course.

BIO 176.  Invertebrate Zoology.  3 Units
Prerequisite(s): BIOS 160
Corequisite(s): BIO 188
Term Typically Offered: Spring

BIO 177.  Advanced Molecular Biology.  4 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Fall, Spring

Examination of the structure of genes and genomes, the mechanisms by which they change, and the use of evolutionary relationships to understand function. Mechanisms of the regulation of gene expression from gene to phenotype and the tools used to study these processes. Applications of molecular tools in medicine and biotechnology and the ethics around these approaches. Lecture two hours, laboratory six hours.

BIO 178.  Cancer Biology.  3 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Fall only

Study of cancer from the molecular level to the effect on whole tissues and organs. Topics to be covered include the classification and nomenclature of cancers, the process leading up to the formation of a cancer, the possible causes of cancer, and possible treatment. Lecture two hours.
BIO 183A. Advanced Problems in Cancer Biology. 1 Unit
Prerequisite(s): BIO 121 and BIO 184 and BIO 183 or instructor permission; BIO 183 may be taken concurrently
Term Typically Offered: Fall, Spring

Literature searches and discussions are focused on medical, clinical, and biotechnological applications of Cancer Biology.

BIO 184. General Genetics. 4 Units
Prerequisite(s): BIO 1 and BIO 2; declared major in Biological Sciences, Biochemistry, Chemistry or instructor consent
Term Typically Offered: Fall, Spring, Summer

Principles of inheritance as they relate to microorganisms, plants, animals and humans. Genetic mechanisms are analyzed according to evidence derived from both classical and current research. The nature, structure, and function of the genome are considered at the molecular level. Lecture three hours; laboratory three hours. Fee course.

BIO 185. Topics in Biology. 3 Units
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2; CHEM 20.
Term Typically Offered: Fall, Spring

Current topics in cellular, developmental and/or molecular biology. Topics will vary. May be taken more than once provided that topics are different. Lecture three hours.

BIO 186A. Cell and Molecular Biology Seminar. 1 Unit
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2.
Term Typically Offered: Fall only

Series of at least 10 seminars in cell and molecular biology. Topics within each seminar will vary each semester.
Note: May be repeated for credit. No more than one unit of BIO 186 may be counted toward the upper division major requirement.

Credit/No Credit

BIO 186B. Ecological and Environmental Issues Seminar. 1 Unit
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2.
Term Typically Offered: Fall only

Series of at least 10 seminars in ecological and environmental issues. Topics within each seminar will vary each semester.
Note: May be repeated for credit. No more than one unit of BIO 186 may be counted toward the upper division major requirement. Cross Listed: ENVS 186B; only one may be counted for credit.

Credit/No Credit

BIO 186C. Introduction to Health Careers Seminar. 1 Unit
Term Typically Offered: Fall, Spring

Designed for pre-health professional students who are in the process of researching traditional and non-traditional health professions and careers. This course consists of at least 10 seminars presented by various practicing health professionals, health professional students, and health professional school admissions officers. Topics vary each semester. One hour per week.

Credit/No Credit

BIO 187. Advanced Cell Biology. 4 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Spring only

Advanced cellular and molecular biology of eukaryotic cells. Comparison to prokaryotic organism will be made as needed to illustrate key concepts. Emphasis will be placed on cellular functions and utilize two or more cellular systems; including cell to cell communication, regulation of gene expression, uptake and secretion, regulation of cytoskeletal configuration, cell migration and cellular reproduction. Lecture two hours, laboratory six hours.

BIO 188. Evolution. 3 Units
Prerequisite(s): BIO 184 or instructor permission.
Term Typically Offered: Fall, Spring

General survey of evolutionary processes: mechanisms of evolutionary change, adaptation and history of life. Designed for biological sciences majors. Lecture three hours.

BIO 194. Biology-Related Work Experience. 6 - 12 Units
Term Typically Offered: Fall, Spring

Supervised work-learn experience in biology with a public or private agency arranged through the Department of Biological Sciences and the Cooperative Education Program office. Requires preparation of application packet, completion of a three to six month, full-time or part-time work assignment, and a written report.
Note: Open only to upper division or graduate students with appropriate preparation. Consent of Department Cooperative Education Committee required, and Committee will determine the number of units to be granted. Students may enroll for no more than 12 total units, and units may not be used to meet biology major or graduate course work requirements.

Credit/No Credit

BIO 195. Biological Internship. 1 - 2 Units
Prerequisite(s): Department chair and instructor (representing the appropriate biological discipline) permission.
Term Typically Offered: Fall, Spring

Supervised work-learn experience in biology with a public or private organization. Up to 4 units may be taken. No more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the biological sciences upper division major requirement.

Credit/No Credit

BIO 195D. Dental Internship. 1 - 2 Units
Prerequisite(s): Department chair and instructor (representing the appropriate preprofessional discipline) permission.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in the medical-related and business-related aspects of dentistry. Includes a volunteer experience in the community. No more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the biological sciences upper division major requirement.
Note: 1 unit = 40 hours of participation/semester and 2 units = 80 hours of participation/semester; May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 197. Advanced Problems in Cancer Biology. 1 Unit
Prerequisite(s): BIO 121 and BIO 184 and BIO 183 or instructor permission; BIO 183 may be taken concurrently
Term Typically Offered: Fall, Spring

Supervised internship experience in the process of researching traditional and non-traditional health professions and careers. This course consists of at least 10 seminars presented by various practicing health professionals, health professional students, and health professional school admissions officers. Topics vary each semester. One hour per week.

Credit/No Credit

BIO 199. Biological Internship. 1 - 2 Units
Prerequisite(s): Department chair and instructor (representing the appropriate biological discipline) permission.
Term Typically Offered: Fall, Spring

Supervised work-learn experience in biology with a public or private organization. Up to 4 units may be taken. No more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the biological sciences upper division major requirement.

Credit/No Credit
**BIO 195M. Medical Internship.** 2 Units

Prerequisite(s): Department Chair, Instructor and Placement Agency's permission required.

Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in multiple aspects of health care. Includes a volunteer experience in the community, supplemental readings, and a presentation on current issues in medicine and health education. No more than 2 units of BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

Note: 80 hours of participation/semester

Credit/No Credit

**BIO 195P. Pharmacy Internship.** 1 - 2 Units

Prerequisite(s): Department Chair, Instructor, and Placement Agency permission required.

Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in pharmacy. Includes a volunteer experience in the community. No more than 2 units from BIO 195, BIO 197 and Bio 199 combined can be applied to the biological sciences upper division major requirement. May be repeated for up to 4 units of credit. 1.0-2.0 units (40-80 hours of participation/semester).

Credit/No Credit

**BIO 195T. Teaching Internship.** 1 - 2 Units

Prerequisite(s): Department chair and instructor permission.

Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in K-12 teaching. Includes regular meetings with supervising teacher and submission of a field experience journal. May be repeated for credit.

Note: No more than 2 units from BIO 195, 197 and 199 combined can be applied to the biological sciences upper division major requirement.

Credit/No Credit

**BIO 195C. Co-curricular Activities in Biology.** 1 - 2 Units

Term Typically Offered: Fall, Spring

Students may earn BIO 197C credit by participating as tutors and/or section or discussion leaders for biological sciences classes or teaching as voluntary instructors or tutors in K-12 courses or programs offered by other community organizations. Participation requires four to eight hours weekly. Admission requires approval of professor and Department Chair.

Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

**BIO 197A. Laboratory Teaching Assistant.** 1 - 2 Units

Prerequisite(s): Department Chair and instructor permission.

Term Typically Offered: Fall, Spring

Supervised experiences will include aspects of laboratory preparation and aspects of teaching biology laboratory courses. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of professor and Department Chair.

Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

**BIO 197B. Laboratory Techniques.** 1 - 2 Units

Prerequisite(s): Department Chair and instructor permission.

Term Typically Offered: Fall, Spring

Supervised laboratory experiences for advanced students in the organization and techniques for operation of a basic sciences laboratory. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of professor and Department Chair.

Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

**BIO 197C. Advanced Laboratory Exploration.** 1 - 2 Units

Term Typically Offered: Fall, Spring

Students may earn BIO 197C credit by participating as tutors and/or section or discussion leaders for biological sciences classes or teaching as voluntary instructors or tutors in K-12 courses or programs offered by other community organizations. Participation requires four to eight hours weekly. Admission requires approval of professor and Department Chair.

Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

**BIO 197D. Intermediate Laboratory Techniques.** 1 - 2 Units

Prerequisite(s): BIO 197A and instructor permission.

Term Typically Offered: Fall, Spring

Advanced, supervised experiences that explore the science behind laboratory experiences and discussion regarding aspects of specific laboratories that promote understanding of scientific content. Conferences and laboratory experiences four to eight hours weekly; written assignments and/or oral presentations required. Admission requires approval of professor and Department Chair.

Note: No more than 2 units from BIO 195, BIO 197, BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

**BIO 197E. Advanced Laboratory Teaching Assistant.** 1 - 2 Units

Prerequisite(s): BIO 197B and instructor or Department Chair permission

Term Typically Offered: Fall, Spring

Supervised laboratory experiences for skilled students in the organization and techniques for operation of a basic sciences laboratory. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of instructor and Department Chair.

Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

**BIO 197F. Advanced Lab Techniques.** 1 - 2 Units

Prerequisite(s): BIO 197B and instructor permission.

Term Typically Offered: Fall, Spring

Advanced supervised laboratory experiences for skilled students in the organization and techniques for operation of a basic sciences laboratory. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of instructor and Department Chair.

Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

Credit/No Credit
### BIO 194, BIO 195, BIO 197 and BIO 199

These courses form the basis for an introduction to biological journals, the scientific method, and research as a professional pursuit. Each student develops a refined research proposal and prepares a seminar summarizing the proposal and the current state of knowledge in the topic area. Students will develop and refine their methodology under the direction of a faculty mentor.

**Term Typically Offered:** Fall, Spring

Contemporary topics in biology selected by students in the course will form the basis for an introduction to journals, the scientific method, and research as a professional pursuit. Each student develops a refined research proposal and prepares a seminar summarizing the proposal and the current state of knowledge in the topic area. Students will develop and refine their methodology under the direction of a faculty mentor.

**Term Typically Offered:** Fall, Spring

### BIO 198A. Honors Proseminar and Research. 2 Units

**Prerequisite(s):** Open only to honors students in biological sciences who have an overall GPA of 3.25 and a minimum of 3.0 GPA in biology courses (at least six units of upper division biology excluding BIO 106, BIO 108, BIO 194, BIO 195, BIO 197 and BIO 199).

**Term Typically Offered:** Fall, Spring

Directed research involving completion of an independently conducted research project for which a proposal and methodology was developed in BIO 198A. Data collection, summary and analysis, and formulation of conclusions based on the data will be discussed periodically with a faculty sponsor. Culmination will consist of preparation of an undergraduate thesis, poster and presentation of a seminar summarizing results and conclusions.

**Note:** Open only to honors students in Biological Sciences. Fee course.

### BIO 198B. Honors Research and Seminar. 2 Units

**Prerequisite(s):** BIO 198A.

**Term Typically Offered:** Fall, Spring

Directed research involving completion of an independently conducted research project for which a proposal and methodology was developed in BIO 198A. Data collection, summary and analysis, and formulation of conclusions based on the data will be discussed periodically with a faculty sponsor. Culmination will consist of preparation of an undergraduate thesis, poster and presentation of a seminar summarizing results and conclusions.

**Note:** Open only to honors students in Biological Sciences. Fee course.

### BIO 199A. Introductory Undergraduate Research. 1 - 2 Units

**Prerequisite(s):** Department Chair and instructor permission.

**Term Typically Offered:** Fall, Spring

Student conducts introductory, independent laboratory or field research on an original question. Research must culminate in a formal report. Weekly meetings may be required. Students must have a research prospectus approved by faculty mentor and Department Chair.

**Note:** May be taken more than once; no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

### BIO 199B. Directed Readings. 1 - 2 Units

**Prerequisite(s):** Department Chair and instructor permission.

**Term Typically Offered:** Fall, Spring

Directed Readings on a topic in Biology culminating in a research paper. Admission requires submission of a prospectus approved by the faculty member under whom the work is to be conducted and the Department Chair.

**Note:** May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

### BIO 199C. Intermediate Undergraduate Research. 1 - 2 Units

**Prerequisite(s):** Department Chair and instructor permission.

**Term Typically Offered:** Fall, Spring

Student conducts independent laboratory or field research on an original question. Research must culminate in a formal report. Weekly meetings may be required. Students must have a research prospectus approved by faculty mentor and Department Chair.

**Note:** May be taken more than once; no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

### BIO 199D. Advanced Undergraduate Research. 1 - 2 Units

**Prerequisite(s):** Department Chair and instructor permission.

**Term Typically Offered:** Fall, Spring

Advanced laboratory or field research on an original question. The research must culminate in a formal report. Weekly meetings may be required. Students must have a prospectus approved by the faculty member and the Department Chair.

**Note:** May be taken more than once; no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

### BIO 214. Advanced Plant Ecology. 3 Units

**Prerequisite(s):** BIO 160.

**Term Typically Offered:** Fall, Spring

Fundamental properties of plant populations; population regulation; community productivity and structure; a study of ecotypic and ecocline variation in plant populations. Lecture one hour; laboratory and field six hours.

### BIO 220. Introduction to Scientific Inquiry. 2 Units

**Term Typically Offered:** Fall, Spring

Graduate level introduction to scientific inquiry in the biological sciences. Students learn to apply the scientific method, critically evaluate the scientific literature, initiate their graduate project, and develop written and oral scientific presentation skills. Lecture two hours.

**Note:** Graduate Writing Intensive (GWI).

### BIO 220A. Foundations in Scientific Inquiry. 3 Units

**Term Typically Offered:** Fall only

Introduces the foundations of scientific inquiry at the graduate level. Students learn how to apply the scientific method, obtain and critically evaluate the scientific literature, design experiments, interpret and present scientific data, and initiate their thesis research or project. Lecture three hours.

### BIO 220B. Scientific Writing and Communication. 3 Units

**Prerequisite(s):** BIO 220A or instructor permission

**Term Typically Offered:** Spring only

Graduate level written and oral scientific presentation skills aimed at preparing students for the creation and delivery of their thesis/project proposal in the Biological Sciences. Topics include proper structure, organization, and tone in scientific writing, writing concisely, effective peer review and self-editing, and communicating complex scientific information in different forms. Lecture three hours.
**BIO 221A. Cell and Molecular Methods and Techniques.** 2 Units  
**Term Typically Offered:** Spring only  
Prerequisite(s): BIO 220 (may be taken concurrently).  
Introduction to research methods in molecular and cellular biology. Students learn both cell and molecular techniques in the context of hypothesis-driven research to answer questions relating to a specific gene and cellular system. Experimental design and commonly used laboratory techniques will be explored. Two three-hour laboratory periods. Fee course.

**BIO 221B. Methods in Ecology, Evolution and Conservation.** 2 Units  
**Term Typically Offered:** Spring only  
Prerequisite(s): BIO 167, BIO 220 (may be taken concurrently).  
Introduction to research methods in ecology, evolution and conservation biology. Students learn field and laboratory techniques with a variety to taxa in a range of local ecosystems. Students will work with several faculty conducting research projects. Topics will include developing hypotheses, experimental design, study implementation, and statistical analyses. Students will be expected to present findings in oral and written form. Two three-hour laboratory periods. Fee course.

**BIO 221C. Exploration of Biological Methodology.** 3 Units  
**Term Typically Offered:** Fall, Spring  
Intended for students in the MA grant proposal track, this course explores a selected topic from multiple scientific perspectives. A discovery-based laboratory project using cell and molecular techniques complemented with lectures, discussions and field trips that investigate the ecological, environmental, and evolutionary aspects of the same topic. The laboratory project will focus on a current biological topic (such as genetically modified organisms) in accordance with the instructor's interests and expertise. One hour lecture, six hours lab per week.  
Note: Not open to students in the Master of Science in Molecular and Cellular Biology Concentration.

**BIO 222. Molecular Biology.** 3 Units  
**Prerequisite(s):** BIO 184, CHEM 161.  
**Term Typically Offered:** Fall, Spring  
Processes and control of DNA replication, transcription, and translation developed from a consideration of the current literature. Lecture three hours.

**BIO 223. Human Molecular Genetics.** 3 Units  
**Prerequisite(s):** BIO 184 and CHEM 161.  
**Term Typically Offered:** Fall, Spring  
In-depth study of the molecular basis of human disease, emphasizing current experimental approaches and technologies. Topics include the isolation and analysis of disease genes, the influence of teratogens and random environmental events on human embryonic development, the molecular and biochemical consequences of mutagenesis, and ethical issues that currently surround the field. Lecture 3 hours.

**BIO 224. Genomics, Proteomics, and Bioinformatics.** 3 Units  
**Prerequisite(s):** BIO 184, BIO 222 and graduate status or instructor permission.  
**Term Typically Offered:** Fall, Spring  
Examination of current approaches in structural genomics, functional genomics and proteomics, and the bioinformatics tools utilized to understand genome organization, the regulation of gene expression, gene function and the evolutionary relationships within and between genomes. Lecture two hours; laboratory 3 hours.

**BIO 225. Stem Cell Biology and Manufacturing Practices.** 1 Unit  
**Prerequisite(s):** Graduate status and instructor permission.  
**Term Typically Offered:** Fall, Spring  
Graduate level introductory course in human stem cell biology with specific emphasis on adult, embryonic, and induced pluripotent stem cells. Topics will include how stem cells are isolated or generated, how they are cultured, and how they are used for regenerative therapies. In addition, students will learn about Good Manufacturing Practice (GMP) and how to manufacture human stem cells.

**BIO 227. Development and Regenerative Medicine.** 3 Units  
**Prerequisite(s):** Graduate status and instructor permission.  
**Term Typically Offered:** Fall, Spring  
Graduate level introductory course in human stem cell biology with specific emphasis on adult, embryonic, and induced pluripotent stem cells. Topics will include how stem cells are isolated or generated, how they are cultured, and how they are used for regenerative therapies. In addition, students will learn about Good Manufacturing Practice (GMP) and how to manufacture human stem cells.

**BIO 245. Host/Pathogen Interactions.** 3 Units  
**Prerequisite(s):** BIO 121, BIO 139, BIO 184. Courses recommended but not required: BIO 144, BIO 149, BIO 180.  
**Term Typically Offered:** Fall, Spring  
Critical reading and discussion of current literature on host/pathogen interactions. Topics to be covered include: alteration of host intracellular trafficking, subversion of cell cytoskeleton for invasion, intracellular survival mechanisms, pathogen-induced cell killing, and evasion and subversion of the host immune system.

**BIO 247. Contemporary Topics in Immunology.** 2 Units  
**Prerequisite(s):** BIO 149A or instructor permission.  
**Term Typically Offered:** Fall, Spring  
Readings and discussions of current literature emphasizing new field developments and controversies. Lecture two hours.

**BIO 260. Advanced Ecology.** 3 Units  
**Prerequisite(s):** BIO 160 or equivalent.  
**Term Typically Offered:** Fall, Spring  
Principles and applications of theoretical and field ecology as they apply to populations, communities and ecosystems.

**BIO 269. Behavioral Ecology.** 3 Units  
**Prerequisite(s):** BIO 160 or instructor permission.  
**Term Typically Offered:** Fall, Spring  
Advanced study of animal behavior focusing on the life history consequences of social organization, spacing systems, sexual behavior, reproductive ecology, feeding ecology, competitive interactions and predator-prey interactions.
BIO 273. Advanced Fishery Biology and Management. 3 Units
Prerequisite(s): BIO 173 or instructor permission.
Term Typically Offered: Fall, Spring

Critical review and evaluation of current techniques and concepts relating to the management, protection, and improvement of fishery resources. Lecture three hours.

BIO 279. Conservation Biology and Wildlife Management. 3 Units
Prerequisite(s): BIO 160, or instructor permission.
Term Typically Offered: Spring only

Advanced study of human effects and management of ecological systems, including populations, communities, and ecosystems. Topics include population and biodiversity responses to human activities, endangered species management, reserve design, and restoration. Emphasis on the critical evaluation, review, and presentation of conservation literature and issues. Paired course with Bio 179.

Note: Lecture two hours; laboratory and fieldwork three hours; meets in the same location with the same instructor as Bio 179; course cannot be taken concurrently with or after taking BIO 179; Bio 279 cannot be taken in the graduate program after completing Bio 179. Field Trip(s).

Field trip(s) may be required.

BIO 280. Advanced Molecular Biology. 4 Units
Term Typically Offered: Fall, Spring

Advanced examination of the structure of genes and genomes, the mechanisms by which they change, and the laboratory tools used to study and understand gene function. Analysis of the molecular mechanisms of gene expression, their regulation, phenotypes, and the tools used to study these processes. Application of molecular tools in medicine and biotechnology and the ethics of these approaches. Emphasis on the critical evaluation, review, and presentation of molecular biology research literature. Paired with Bio 180. Fee course.

Note: Lecture two hours, laboratory six hours. Course requires Personal Protective Equipment.

Fee course.

BIO 282. Evolution. 3 Units
Prerequisite(s): Classified graduate standing in Biological Sciences
Term Typically Offered: Fall only

Introduction to evolutionary concepts and perspectives and their application to a variety of topics outside of evolutionary biology through discussion of peer-reviewed literature. Students will develop skills through group discussion, writing, and presentation.

BIO 283. Biogeography. 3 Units
Term Typically Offered: Fall, Spring

Study of the past and present plant and animal distributions, and the geologic, climatic and ecologic factors involved in their migration, establishment and extinction. Lecture/discussions three hours.

BIO 285. Topics in Biology. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Readings and discussions of current literature emphasizing new developments and controversies in a comparatively narrow range of biological topics. Topics will vary with each offering, encompassing one recognized specialty in biology. May be repeated for credit when the topics vary.

BIO 293. Research Conference. 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Presentation and discussion of graduate student and faculty research and current literature with emphasis on critical evaluation of research design, data analysis and presentation techniques.

Note: Discussion two hours. May be taken twice for credit. Only two units may be applied to the University's requirement for 200-level courses; May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 294A. Seminar in Molecular and Cellular Biology. 1 Unit
Prerequisite(s): Student must be a Biology major at the master's level to enroll in this class and/or have instructor permission.
Term Typically Offered: Fall, Spring

Review and discussion of scientific literature in cell and molecular biology. Seminar topics will vary by semester.

Note: May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 294B. Seminar in Ecology, Evolution and Conservation. 1 Unit
Prerequisite(s): Student must be a Biology major at the master's level to enroll in this class and/or have instructor permission.
Term Typically Offered: Fall, Spring

Review and discussion of scientific literature in ecology, evolution, and conservation biology. Seminar topics will vary by semester.

Note: May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 294C. Seminar in Scientific Communication. 1 Unit
Prerequisite(s): Student must be a Biology major at the master's level to enroll in this class and/or have instructor permission.
Term Typically Offered: Fall, Spring

Review, discussion, and evaluation of scientific communication skills and techniques, with emphasis on oral presentation of the thesis or project proposal and delivery of the graduate exit seminar. Prerequisite: Student must be a Biology major at the master's level to enroll in this class and/or have instructor permission.

Credit/No Credit

BIO 297A. Teaching Biology Seminar. 1 Unit
Prerequisite(s): Acceptance in the GTA Program or instructor permission.
Term Typically Offered: Fall only

Highly recommended training for graduate students who wish to participate in the Department's Graduate Teaching Associate (GTA) Program and others interested in teaching biology. Weekly seminar/discussion session covers educational theory, practical instructional strategies, and faculty policies and regulations for teaching biology courses, with a focus on laboratories. Lecture/discussion.

Credit/No Credit
degree in Marine Science is offered as an interdepartmental degree through Biological Sciences in cooperation with Moss Landing Marine Laboratories.

Degree Program
MS in Marine Science (p. 834)

Special Features
- Most courses are field-oriented, taking advantage of a diversity of nearby coastal and marine habitats, including Monterey Submarine Canyon, subtidal kelp forests, Elkhorn Slough, and rocky and sandy intertidal zones.
- Field activities are facilitated by the MLML fleet, the 135' R/V POINT SUR, the 35' R/V ED RICKETTS, two Boston Whalers, and a number of inflatable rafts.
- Ongoing research by faculty and graduate students further enhances the MLML learning experience.

Contact Information
Kenneth Coale, Director of the Laboratories
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(408) 755-8656

Jamie Kneitel, Department of Biological Sciences Chair
TSC 3000
(916) 278-6535

Amy Wagner, Ph.D.
Placer Hall 1017
(916) 278-5136

MSCI 103. Marine Ecology. 4 Units
Prerequisite(s): Ecology, statistics; or concurrent registration in MSCI 104.
Term Typically Offered: Fall, Spring
Field-oriented introduction to the interrelationships between marine and estuarine organisms and their environment with emphasis on quantitative data collection and analysis. Lecture two hours; laboratory six hours.

MSCI 104. Quantitative Marine Science. 4 Units
Prerequisite(s): College mathematics.
Term Typically Offered: Fall, Spring
Mathematical methods for the analysis of biological, chemical and physical data from the marine environment; experimental design, parametric and nonparametric statistics. Lecture three hours; laboratory three hours.
Note: Not for major credit.

MSCI 105. Marine Science Diving. 3 Units
Prerequisite(s): Upper division science major status, thorough physical examination, ability to pass swimming test.
Term Typically Offered: Fall, Spring
Skin SCUBA diving course, pool-training culminates in ten ocean dives. Topics covered include diving physics, physiology, diving environments, night diving and research diving. Successful completion gives NAUI and MLML certification. Lecture one hour; laboratory six hours.
Note: Not for major credit.
MSCI 112. Marine Birds and Mammals. 4 Units
Prerequisite(s): Upper division college vertebrate zoology or instructor permission; MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Systematic, morphology, ecology and biology of marine birds and mammals. Lecture two hours; laboratory six hours.

MSCI 113. Marine Ichthyology. 4 Units
Prerequisite(s): College zoology or equivalent or instructor permission; MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Description of the taxonomy, morphology, and ecology of marine fishes. Both field and laboratory work concentrate on the structure, function and habits of marine fishes and the ecological interactions of these fishes with their biotic and abiotic surroundings. Lecture two hours; laboratory six hours.

MSCI 124. Marine Invertebrate Zoology I. 4 Units
Prerequisite(s): College zoology or instructor permission; MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Field oriented introduction to the structure, systematics, evolution, and life histories of the major and minor marine phyla. Lecture two hours; laboratory and six hours.

MSCI 125. Marine Invertebrate Zoology II. 3 Units
Prerequisite(s): College zoology or instructor permission; MSCI 103 and MSCI 124 recommended.
Term Typically Offered: Fall, Spring

Field oriented introduction to the structure, systematics, evolution and life histories of the minor marine invertebrate phyla. Lecture one hour; laboratory and field six hours.

MSCI 131. Marine Botany. 4 Units
Prerequisite(s): MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Introduction to the plants of the sea, marshes, and dunes, with emphasis on the morphology, taxonomy and natural history of seaweeds and vascular plants. Lecture two hours; laboratory six hours.

MSCI 135. Physiology of Marine Algae. 4 Units
Prerequisite(s): MSCI 103, MSCI 131, and MSCI 144. Lecture two hours; laboratory six hours.
Term Typically Offered: Fall, Spring

Physiological basis for understanding the adaptation of marine algae to their environment. Topics include respiration, enzyme activity, and biochemical composition. Hands-on experience in basic electronic instrumentation, chemical separations, optical measurements, culturing methods, and radioisotope techniques.

MSCI 141. Geological Oceanography. 4 Units
Prerequisite(s): MSCI 142, MSCI 143; may be taken concurrently.
Term Typically Offered: Fall, Spring

Study of the structures, physiography and sediments of the sea bottom and shoreline. Lecture two hours; laboratory and field six hours.

MSCI 142. Physical Oceanography. 4 Units
Prerequisite(s): College algebra, college physics recommended.
Term Typically Offered: Fall, Spring

Introduction to the nature and causes of various oceanic motions including currents, waves, tides, and mixing and the Physical properties of seawater. Limited use of calculus. Lecture three hours; laboratory three hours.

MSCI 143. Chemical Oceanography. 4 Units
Prerequisite(s): One year of college chemistry.
Term Typically Offered: Fall, Spring

Introduction to the theoretical and practical aspects of the chemistry of the oceans, including major salts, dissolved gases, nutrient ions, carbonate system, transient tracers, and shipboard sampling techniques. Lecture two hours; laboratory six hours.

MSCI 144. Biological Oceanography. 4 Units
Prerequisite(s): General biology, general chemistry.
Term Typically Offered: Fall, Spring

Ocean as an ecological system. Emphasis will be on the complexity of organismal-environmental interaction of the plankton, the transfer of organic matter between trophic levels and nutrient cycles. Laboratory sessions will include methods in sampling, shipboard techniques, identification of the plankton, and current analytical techniques. Lecture two hours; laboratory six hours.

MSCI 175A. Coastal Geol Processes. 1 Unit
Term Typically Offered: Fall, Spring

MSCI 175B. Intro To Marine Science. 1 Unit
Term Typically Offered: Fall, Spring

MSCI 180. Independent Study. 1 - 4 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Faculty-directed study of selected research problems; open to undergraduate students with adequate preparation. Three hours work per unit.

MSCI 201. Library Research Methods. 1 Unit
Prerequisite(s): Graduate standing in the Marine Science M.S. program and instructor permission.
Term Typically Offered: Fall, Spring

Students will gain advanced understanding of the nature of scientific information. Provides the framework for using and evaluating a variety of information sources in marine and ocean sciences. Strong emphasis will be placed on developing critical skills to interweave knowledge of the history of science into the context of bibliographic tools including the digital realm. Lecture: three hours.

MSCI 202. Oceanographic Instrumentation. 4 Units
Prerequisite(s): MSCI 141, MSCI 142 and instructor permission.
Term Typically Offered: Fall, Spring

Principles of instruments used in oceanographic research, introduction to electronics, and applications of instrument measurements. Emphasis will vary from CTD profilers, current meters, radiometry and chemical measurement. Lecture two hours; laboratory six hours.
MSCI 204. Sampling and Experimental Design. 4 Units
Prerequisite(s): MSCI 103, MSCI 104.
Term Typically Offered: Fall, Spring
Discussion of random sampling, systematic sampling, subsampling, survey techniques, and design of single and multifactorial experiments using randomized and block experimental designs: basic design of experiments and field sampling will be covered. Biases and problems of sampling marine biota will be presented and discussed by critiquing relevant literature. Lecture four hours.

MSCI 208. Molecular Ecology: Concepts and Methods. 4 Units
Prerequisite(s): Basic cellular/molecular biology course; consent of instructor.
Term Typically Offered: Fall, Spring
Use of genetic information affecting interactions of organisms with environment. Lectures on molecular markers used to assess diversity in communities, characterize spatial/temporal variation in species composition, assess genetic variability in populations, discriminant/reveal kinship among individuals, and detect/quantify gene expression important in organismal responses to environmental fluctuation. Basic molecular methods (DNA and RNA isolation/amplification/cloning/sequencing) taught. Students projects as budget permits. Enrollment limited. Lecture 2 hours; laboratory 6 hours.

MSCI 211. Ecology of Marine Birds and Mammals. 4 Units
Prerequisite(s): MSCI 103, MSCI 104, MSCI 112.
Term Typically Offered: Fall, Spring
Community approach to the ecology of marine birds and mammals using experimental and sampling methodology; examine the distribution, abundance, trophic ecology, and behaviors of birds and mammals in Elkhorn Slough and Monterey Bay. Lecture two hours; laboratory six hours.

MSCI 212. Advanced Topics in Marine Vertebrates. 4 Units
Prerequisite(s): MSCI 112 or MSCI 113 and instructor permission.
Term Typically Offered: Fall, Spring
Advanced consideration of the ecology, physiology and phylogeny of fishes, birds, reptiles or mammals, emphasizing current literature and research. Topics and emphasis will vary with term and instructor. Lecture two hours; laboratory six hours.
Note: May be repeated once for credit.

MSCI 212A. Adv Ichthyology. 4 Units
Term Typically Offered: Fall, Spring

MSCI 212B. Ichthyoplankton. 4 Units
Term Typically Offered: Fall, Spring

MSCI 212C. Marine Bird+Mammal Ecolgy. 4 Units
Term Typically Offered: Fall, Spring

MSCI 212D. Sampling+Expermntl Design. 4 Units
Term Typically Offered: Fall, Spring

MSCI 221. Advanced Topics in Marine Invertebrates. 4 Units
Prerequisite(s): MSCI 124 and instructor permission.
Term Typically Offered: Fall, Spring
Advanced considerations of the ecology, physiology and phylogeny of the various invertebrate phyla emphasizing current literature and research. Topics will vary from term to term. Lecture two hours; laboratory six hours.
Note: May be repeated for credit when topics change.

MSCI 221A. Marine Symbioses. 4 Units
Term Typically Offered: Fall, Spring

MSCI 221B. Sampling+Expermntl Design. 4 Units
Term Typically Offered: Fall, Spring

MSCI 221C. Coastal Ecology-Gulf of California. 3 Units
Prerequisite(s): MSCI 103, MSCI 104, MLML SCUBA certified, graduate status, instructor permission.
Term Typically Offered: Fall, Spring
Field-oriented examination of the interrelationships between intertidal and shallow subtidal organisms and their environment in the Gulf of California, Mexico. Information from lectures and review of primary literature on the ecology of the region will be used to write a research proposal. 1 hour lecture, 6 hours laboratory.

MSCI 221D. Immune Respn Marine Orgns. 2 Units
Term Typically Offered: Fall, Spring

MSCI 224. Advanced Biological Oceanography. 4 Units
Prerequisite(s): MSCI 144.
Term Typically Offered: Fall, Spring
Experimental techniques in biological oceanography with emphasis on problems important to plankton ecology. Includes lectures, labs, and discussions of current research problems. An individual research project involving analytical tools will be required. Lecture two hours; laboratory six hours.

MSCI 242. Plate Tectonics. 3 Units
Prerequisite(s): MSCI 141 or instructor permission.
Term Typically Offered: Fall, Spring
Historical background, modern theory, and geo-physical evidence of continental drift sea floor spreading and plate tectonics. Examinations of the impact of the recent revolution in historical geology. Lecture three hours.
MSCI 248. Marine Benthic Habitat Techniques.  4 Units  
Prerequisite(s): Graduate standing and instructor permission.  
Term Typically Offered: Fall, Spring  
Collection and interpretation of geophysical data used to characterize marine benthic habitats. Basic geophysical principles will be reviewed. Application of techniques to identify and characterize marine benthic habitats, including echosounders, multibeam bathymetry and backscatter, sidescan sonar, seismic profiling, and GIS. Lecture two hours; laboratory six hours.

MSCI 251. Marine Geochemistry.  4 Units  
Prerequisite(s): MSCI 143, quantitative analysis, one year calculus or instructor permission.  
Term Typically Offered: Fall, Spring  
Geophysical processes in the oceans: thermodynamics of low temperature aqueous reactions, processes occurring at the sea floor and air-sea interface. Lecture two hours; laboratory six hours.

MSCI 261. Ocean Circulation and Mixing.  4 Units  
Prerequisite(s): MSCI 142; college physics strongly recommended or instructor permission.  
Term Typically Offered: Fall, Spring  
Mathematical description of the distribution of properties (salinity, density, etc.) in the oceans relating to physical and biochemical processes. Equations of motion, geotropic method, and theory of distribution of variables. Lecture two hours; laboratory six hours.

MSCI 262. Satellite Oceanography.  4 Units  
Prerequisite(s): MSCI 142, MSCI 144, or instructor permission. MSCI 263 strongly recommended.  
Term Typically Offered: Fall, Spring  
Physical principles of remote sensing with application to the oceans including satellite image processing methods. Labs involve use of PC and Unix workstation. Lecture two hours; laboratory six hours.

MSCI 263. Application of Computers in Oceanography.  4 Units  
Prerequisite(s): College math and instructor permission.  
Term Typically Offered: Fall, Spring  
Lecture, discussion and technical programming with MATLAB for computation and visualization with applications in marine sciences. Use of existing program libraries for data I/O and analysis. Semester project required. Lecture two hours; laboratory six hours.

MSCI 271. Population Biology.  3 Units  
Prerequisite(s): MSCI 103, MSCI 104; or instructor permission.  
Term Typically Offered: Fall, Spring  
Principles of the interaction among marine organisms that result in the alteration of population structures. Techniques for assessment and management of populations. Lecture two hours; laboratory three hours.

MSCI 272. Subtidal Ecology.  4 Units  
Prerequisite(s): MLML diver certification and marine ecology (knowledge of marine algae, invertebrates, and statistics recommended).  
Term Typically Offered: Fall, Spring  
Ecology of nearshore rocky subtidal populations and communities with emphasis on kelp forests. Lectures and discussions of original literature. Field work with SCUBA including group projects on underwater research techniques and community analysis, and individual research on ecological questions chosen by the student. Lecture two hours; laboratory six hours.

MSCI 274A. Electron Micros+Microanl.  3 Units  
Term Typically Offered: Fall, Spring  
MSCI 274B. Geol Central Ca Margin.  4 Units  
Term Typically Offered: Fall, Spring  
MSCI 274C. Chem Of Marine Pollution.  4 Units  
Term Typically Offered: Fall, Spring  
MSCI 274D. Global Change.  3 Units  
Term Typically Offered: Fall, Spring

MSCI 280. Scientific Writing.  3 Units  
Prerequisite(s): Graduate status and instructor permission.  
Term Typically Offered: Fall, Spring  
Techniques and strategies of scientific writing used for proposals, journal submissions, and abstracts for meetings. Students will develop their writing skills by preparing, editing, and rewriting manuscripts. Lecture three hours.

MSCI 281. Coastal Dynamics.  4 Units  
Prerequisite(s): Graduate standing and MSCI 141 or MSCI 142.  
Term Typically Offered: Fall, Spring  
Addresses the oceanographic dynamics of coastal environments, within an emphasis on eastern boundary current systems influenced by coastal upwelling. Focuses on how physical and geological oceanography interact with each other and how both affect coastal ecosystem dynamics.

MSCI 285. Seminar in Marine Biology.  2 Units  
Prerequisite(s): Instructor permission.  
Term Typically Offered: Fall, Spring  
Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar. Lecture two hours.  
Note: May be repeated once for credit.

MSCI 285A. Social Biology.  2 Units  
Term Typically Offered: Fall, Spring  
MSCI 285B. Repro+Dev Marine Organism.  2 Units  
Term Typically Offered: Fall, Spring  
MSCI 285C. Recent Adv Deep-Sea Bio.  2 Units  
Term Typically Offered: Fall, Spring  
MSCI 285D. Controversies Modern Biol.  2 Units  
Term Typically Offered: Fall, Spring  
MSCI 285E. Paradigms In Commun Ecol.  2 Units  
Term Typically Offered: Fall, Spring  
MSCI 285F. Appl Molecr Tech Mar Bio.  2 Units  
Term Typically Offered: Fall, Spring  
MSCI 285G. Aspects Of Deep-Sea Biol.  2 Units  
Term Typically Offered: Fall, Spring

MSCI 286. Seminar in Marine Geology.  2 Units  
Term Typically Offered: Fall, Spring  
Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar.  
Note: May be repeated once for credit.
MSCI 287. Seminar In Oceanography. 2 Units
Term Typically Offered: Fall, Spring
Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar.
Note: May be repeated once for credit.

MSCI 298. Research in the Marine Sciences. 1 - 4 Units
Prerequisite(s): Graduate standing and instructor permission.
Term Typically Offered: Fall, Spring
Independent investigations of an advanced character for the graduate student with adequate preparation.
Note: CSUH students must file a petition with their home campus department before admission to this class. CSU Stanislaus students must file Individual Study forms. CSUF students must file Research Approval forms.

MSCI 299. Master's Thesis. 1 - 4 Units
Term Typically Offered: Fall, Spring

BA in Biological Science

Units required for Major: 63-67
Total units required for BA: 120

Program Description
The Department of Biological Sciences offers both undergraduate and graduate degree programs. At the undergraduate level, students are able to earn a Bachelor of Arts degree, a Bachelor of Science degree, or a Minor in Biological Sciences.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Lower Division Courses (37-41 Units)</td>
<td></td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology ¹</td>
<td>5</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I ¹</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3 - 6</td>
</tr>
<tr>
<td>CHEM 20</td>
<td>Organic Chemistry Lecture--Brief Course ²</td>
<td></td>
</tr>
<tr>
<td>CHEM 24 &amp; CHEM 124</td>
<td>Organic Chemistry Lecture I &amp; II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3 - 4</td>
</tr>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td></td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 5B</td>
<td>General Physics: Light, Electricity and Magnetism, Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics ¹</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Required Upper Division Courses (23 Units)</td>
<td></td>
</tr>
<tr>
<td>BIO 100</td>
<td>Introduction to Scientific Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BIO 121</td>
<td>Molecular Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 139</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 160</td>
<td>General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 184</td>
<td>General Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO 188</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 161</td>
<td>General Biochemistry ³</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (3 Units)
Select one course from the following Structure and Function Electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 104</td>
<td>Physiology of Human Reproduction</td>
</tr>
<tr>
<td>BIO 122</td>
<td>Advanced Human Anatomy</td>
</tr>
<tr>
<td>BIO 123</td>
<td>Neuroanatomy</td>
</tr>
<tr>
<td>BIO 126</td>
<td>Comparative Vertebrate Morphology</td>
</tr>
<tr>
<td>BIO 127</td>
<td>Developmental Biology</td>
</tr>
<tr>
<td>BIO 128</td>
<td>Plant Anatomy and Physiology</td>
</tr>
<tr>
<td>BIO 130</td>
<td>Histology</td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
</tr>
<tr>
<td>BIO 132</td>
<td>Neurophysiology</td>
</tr>
<tr>
<td>BIO 133</td>
<td>Cardiovascular, Respiratory and Renal Physiology</td>
</tr>
<tr>
<td>BIO 135</td>
<td>Endocrinology</td>
</tr>
</tbody>
</table>

Total Units: 63-67

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 24 upper division unit requirement in the major.)
3. CHEM 160A and CHEM 160B may be taken in lieu of CHEM 161. Only three units of the package may be counted toward the upper division major requirement.

Notes:
- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Area B: Physical Universe and Its Life Forms (3 Units)</td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science ²</td>
<td>0</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms ²</td>
<td>0</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 ²)</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts ²</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Area C: Arts and Humanities (12 Units)</td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Area D: The Individual and Society (9 Units)</td>
<td></td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>
Biological Sciences Honors Program

Program Description

Biological Sciences Honors Program provides undergraduate students with an in-depth research experience. An undergraduate research experience is highly recommended for entry into many graduate and professional programs. Culmination of the Honors Program will consist of an undergraduate thesis and an undergraduate seminar.

Admission Requirements

To enter this program, students must have an overall GPA of 3.25 and a minimum of 3.0 GPA in biology courses with at least 15 units of biology and have completed at least 6 units of upper division biology courses, excluding the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 106</td>
<td>Genetics: From Mendel to Molecules</td>
<td>3</td>
</tr>
<tr>
<td>BIO 195</td>
<td>Biological Internship</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 197A</td>
<td>Laboratory Teaching Assistant</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 197B</td>
<td>Laboratory Techniques</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 197C</td>
<td>Co-curricular Activities in Biology</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 199A</td>
<td>Introductory Undergraduate Research</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 199B</td>
<td>Directed Readings</td>
<td>1 -</td>
</tr>
</tbody>
</table>

Required in Major; also satisfies GE.

Program Requirements

The curriculum of the Honors Program is designed to be coupled with the BA or BS degree programs. The Honors Program requires the following courses, completed with a grade of “B” or better, for the BA or BS degree:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 198A</td>
<td>Honors Proseminar and Research (Open only to honors students in Biological Sciences as defined above)</td>
<td>2</td>
</tr>
<tr>
<td>BIO 198B</td>
<td>Honors Research and Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

BS in Biological Science (Biomedical Sciences)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).

Total units required for BS: 120

Program Description

The concentration in Biomedical Sciences is designed to prepare students for graduate study in the anatomical and physiological sciences or for health professional training (Medical, Veterinary, Physical Therapy, Nursing, Pharmacy, or other health professions).

Note:

• CHEM 24 and CHEM 124 are required instead of CHEM 20 for the Biomedical Sciences Concentration.

• Additional units may be required to meet the Sacramento State foreign language requirement.

Pre-Major Requirements

The Biological Sciences program at Sacramento State is one of the most highly sought after programs in Northern California. Due to the large number of applications, the program is now officially impacted. Students wishing to become Biological Science majors must complete a series of required lower division and then must apply for admission to
the program. Check the department website for requirements, and it is highly recommended that interested students speak with an advisor at the Natural Sciences Advising Center (NSAC) as soon as possible.

Freshmen interested in the major are admitted as pre-Biological Science majors.

To change to the Biological Sciences major, pre-major students are required to complete the following courses and grade requirements and submit a Declaration of Major form to the Biological Science Department Office along with transcript copies.

1. Completion of the following lower division "pre-major" courses with a minimum "C" or better. Only first or second attempt will be considered:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>5</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 5</td>
<td>Accelerated Academic Literacies</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Overall GPA of 2.5 based on the pre-major courses listed above.
2. Minimum of 30 units completed at the college level.

Notes:

- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
- With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.
- No more than 3 units from the following combined can be applied to the Biological Sciences upper division major requirement. No more than 2 units from BIO 195 and 197 series courses can be used toward this requirement.

Program Requirements

Required Lower Division Core Courses (37-41 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>5</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 24</td>
<td>Organic Chemistry Lecture I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; CHEM 124</td>
<td>Organic Chemistry Lecture II</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td>4</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 5B</td>
<td>General Physics: Light, Electricity and Magnetism, Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Upper Division Core Courses (7 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 100</td>
<td>Introduction to Scientific Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BIO 184</td>
<td>General Genetics</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration (29-37 Units)

Select from the following concentrations:

- General Biology
- Biomedical Sciences

Cell and Molecular Biology

Clinical Laboratory Sciences

Ecology, Evolution, and Conservation

Forensic Biology

Microbiology

Total Units 73-85

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 36 upper division unit requirement in the major except in the Biomedical Sciences Concentration.)

Notes:

- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
- With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.
- No more than 3 units from the following combined can be applied to the Biological Sciences upper division major requirement. No more than 2 units from BIO 195 and 197 series courses can be used toward this requirement.

Concentration in Biomedical Sciences (33 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 22</td>
<td>Introductory Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIO 121</td>
<td>Molecular Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 139</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 25</td>
<td>Organic Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 161</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (12 Units)

Select one of the following Structure and Function electives: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 104</td>
<td>Physiology of Human Reproduction</td>
<td></td>
</tr>
<tr>
<td>BIO 122</td>
<td>Advanced Human Anatomy</td>
<td></td>
</tr>
<tr>
<td>BIO 123</td>
<td>Neuroanatomy</td>
<td></td>
</tr>
<tr>
<td>BIO 126</td>
<td>Comparative Vertebrate Morphology</td>
<td></td>
</tr>
<tr>
<td>BIO 127</td>
<td>Developmental Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 128</td>
<td>Plant Anatomy and Physiology</td>
<td></td>
</tr>
</tbody>
</table>
BS in Biological Science (Cell and Molecular Biology)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).
Total units required for BS: 120

Program Description

The concentration in Cell and Molecular Biology is designed for students interested in advanced studies at the Masters or Ph.D. level, students

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication ²</td>
<td>0</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science ²</td>
<td>0</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms ²</td>
<td>0</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) ²</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts ²</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements. ²</td>
<td>0</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>D1</td>
<td>Fine Arts Requirement</td>
<td>3</td>
</tr>
<tr>
<td>E1</td>
<td>Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>F1</td>
<td>Area F Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 33

Note: Students in Biomedical Sciences concentration must take CHEM 24 and CHEM 124 instead of CHEM 20.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication ²</td>
<td>0</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science ²</td>
<td>0</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms ²</td>
<td>0</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) ²</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts ²</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements. ²</td>
<td>0</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>D1</td>
<td>Fine Arts Requirement</td>
<td>3</td>
</tr>
<tr>
<td>E1</td>
<td>Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>F1</td>
<td>Area F Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 33

Note: To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

BS in Biological Science (Cell and Molecular Biology)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).
Total units required for BS: 120

Program Description

The concentration in Cell and Molecular Biology is designed for students interested in advanced studies at the Masters or Ph.D. level, students
pursuing career working in biotechnology, or pre-health professions majors pursuing a fundamental understanding of the bimolecular basis of disease. Students completing the degree requirements for the Cell and Molecular Biology concentration also fulfills the requirements for a minor in Chemistry.

### Program Requirements

#### Required Lower Division Core Courses (37-41 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>5</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3 - 6</td>
</tr>
<tr>
<td>CHEM 20</td>
<td>Organic Chemistry Lecture–Brief Course</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 24</td>
<td>Organic Chemistry Lecture I</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 124</td>
<td>Organic Chemistry Lecture II</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3 - 4</td>
</tr>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td></td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
<td>4</td>
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<tr>
<td>PHYS 5B</td>
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<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
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</tr>
</tbody>
</table>

#### Required Upper Division Core Courses (7 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 100</td>
<td>Introduction to Scientific Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BIO 184</td>
<td>General Genetics</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Concentration (29-37 Units)

Select from the following concentrations:

| General Biology |
| Biomedical Sciences |
| Cell and Molecular Biology |
| Clinical Laboratory Sciences |
| Ecology, Evolution, and Conservation |
| Forensic Biology |
| Microbiology |

#### Total Units

73-85

1. Course also satisfies General Education (GE)/Graduation Requirement.

2. CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 36 upper division unit requirement in the major except in the Biomedical Sciences Concentration.)

### Notes:

- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
- With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.

### Concentration in Cell and Molecular Biology (34-36 units)

#### Required Courses (25-27 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 121</td>
<td>Molecular Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 180</td>
<td>Advanced Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 187</td>
<td>Advanced Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 188</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 20L</td>
<td>Introductory Organic Chemistry Laboratory</td>
<td>1 - 3</td>
</tr>
<tr>
<td>or CHEM 25</td>
<td>Organic Chemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 31</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 161</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 162</td>
<td>General Biochemistry Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Elective Courses (9 Units)

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 126</td>
<td>Comparative Vertebrate Morphology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 127</td>
<td>Developmental Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 128</td>
<td>Plant Anatomy and Physiology</td>
<td></td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
<td></td>
</tr>
<tr>
<td>Select one of the following Ecology, Evolution, and Biodiversity electives:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Part A: Biodiversity Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 103</td>
<td>Plants and Civilization</td>
<td></td>
</tr>
<tr>
<td>BIO 112</td>
<td>Plant Taxonomy</td>
<td></td>
</tr>
<tr>
<td>BIO 140</td>
<td>Medical Microbiology and Emerging Infectious Diseases</td>
<td></td>
</tr>
<tr>
<td>BIO 145</td>
<td>The Diversity of Microorganisms</td>
<td></td>
</tr>
<tr>
<td>BIO 152</td>
<td>Human Parasitology</td>
<td></td>
</tr>
<tr>
<td>BIO 157</td>
<td>General Entomology</td>
<td></td>
</tr>
<tr>
<td>BIO 162</td>
<td>Ichthyology. The Study of Fishes</td>
<td></td>
</tr>
<tr>
<td>BIO 164</td>
<td>Amphibians and Reptiles: An Introduction to Herpetology</td>
<td></td>
</tr>
<tr>
<td>BIO 166</td>
<td>Ornithology</td>
<td></td>
</tr>
<tr>
<td>Part B: Ecology and Evolution Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 113</td>
<td>Evolution and Speciation in Flowering Plants</td>
<td></td>
</tr>
<tr>
<td>BIO 118</td>
<td>Natural Resource Conservation</td>
<td></td>
</tr>
<tr>
<td>BIO 160</td>
<td>General Ecology</td>
<td></td>
</tr>
<tr>
<td>BIO 169</td>
<td>Animal Behavior</td>
<td></td>
</tr>
<tr>
<td>BIO 173</td>
<td>Principles of Fisheries Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 179</td>
<td>Conservation Biology &amp; Wildlife Management</td>
<td></td>
</tr>
</tbody>
</table>

Select additional upper division electives in consultation with an advisor to total 9 units.

#### Total Units

34-36

1. CHEM 160A and CHEM 160B may be taken in lieu of CHEM 161. Only three units of the package may be counted toward the upper division major requirement.

2. CHEM 162 is included in the 36 upper division unit requirement for this concentration.

- No more than 3 units from the following combined can be applied to the Biological Sciences upper division major requirement. No more
than 2 units of Bio 195 and 197 series courses may be used to count toward the degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 195</td>
<td>Biological Internship</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 197A</td>
<td>Laboratory Teaching Assistant</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 197B</td>
<td>Laboratory Techniques</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 197C</td>
<td>Co-curricular Activities in Biology</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 199A</td>
<td>Introductory Undergraduate Research</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 199B</td>
<td>Directed Readings</td>
<td>1 -</td>
</tr>
</tbody>
</table>

### General Education Requirements

**Area A: Basic Subjects (9 Units)**

- A1 - Oral Communication 3
- A2 - Written Communication 3
- A3 - Critical Thinking 3

**Area B: Physical Universe and Its Life Forms**

- B1 - Physical Science 2 0
- B2 - Life Forms 2 0
- B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) 2 0
- B4 - Math Concepts 2 0
- B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. 2 0

**Area C: Arts and Humanities (12 Units)**

- C1 - Arts 3
- C2 - Humanities 3
- C1/C2 - Area C Course 3
- C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.

**Area D: The Individual and Society (9 Units)**

- Area D Course 3
- Area D Course 3
- Area D Course - Take upper-division course to complete Area & upper division requirements.

**Area E: Understanding Personal Development (3 Units)**

- Area E Course 3

**Area F: Ethnic Studies (3 Units)**

- Area F Course 3

**Total Units** 36

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Required in Major; also satisfies GE.

### Graduation Requirements

**Graduation Requirements (required by CSU) (9 Units)**

- American Institutions: U.S. History 3
- American Institutions: U.S. Constitution & CA Government 3
- Writing Intensive (WI) 3

**Graduation Requirements (required by Sacramento State) (12 Units)**

- English Composition II 3
- Race and Ethnicity in American Society (RE) 3
- Foreign Language Proficiency Requirement 2 6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

### BS in Biological Science (Clinical Laboratory Sciences)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).
Total units required for BS: 120

#### Program Description

The curriculum in Clinical Laboratory Sciences meets the undergraduate coursework requirements of the State of California for eligibility to take a Clinical Laboratory Scientist (CLS) licensure examination. Eligibility to take a licensure examination also requires a one year (CLS) internship training program at a state approved clinical laboratory. Completion of BS degree requirements in the Clinical Laboratory Sciences concentration does not guarantee admission to a CLS internship training program. Information on admission criteria and application procedures for the various CLS internship training programs throughout the state is available through the California Association for Medical Laboratory Technology (CAMLT) at their website (http://www.camlt.org/cls/).

Information about state and out-of-state programs can be found at NAACLS.org.
Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>** Required Lower Division Core Courses (37-41 Units)**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology 1</td>
<td>5</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3 - 6</td>
<td></td>
</tr>
<tr>
<td>CHEM 20</td>
<td>Organic Chemistry Lecture--Brief Course 2</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 124</td>
<td>Organic Chemistry Lecture I &amp; II</td>
<td></td>
</tr>
<tr>
<td>** Required Upper Division Core Courses (7 Units)**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 100</td>
<td>Introduction to Scientific Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BIO 184</td>
<td>General Genetics</td>
<td>4</td>
</tr>
<tr>
<td>** Concentration (29-37 Units)**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select from the following concentrations:</td>
<td>29 - 37</td>
<td></td>
</tr>
<tr>
<td>General Biology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biomedical Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell and Molecular Biology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinical Laboratory Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ecology, Evolution, and Conservation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forensic Biology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microbiology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>** Total Units **</td>
<td>73-85</td>
<td></td>
</tr>
</tbody>
</table>

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 36 upper division unit requirement in the major except in the Biomedical Sciences Concentration.)

Notes:

- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
- With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.

Concentration in Clinical Laboratory Sciences (34 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 121</td>
<td>Molecular Cell Biology</td>
<td>3</td>
</tr>
</tbody>
</table>

** General Education Requirements **

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>** Area A: Basic Subjects (9 Units)**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>** Area B: Physical Universe and Its Life Forms **</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science 2</td>
<td>0</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms 2</td>
<td>0</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 2</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts 2</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements. 2</td>
<td>0</td>
</tr>
<tr>
<td>** Area C: Arts and Humanities (12 Units)**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>
BS in Biological Science (Ecology, Evolution, and Conservation)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).

Program Description

The concentration in Ecology, Evolution, and Conservation is designed for students interested in wildlife management, conservation biology, or pursuing graduate study in ecological and evolutionary approaches in the Biological Sciences. By choosing the concentration, students get necessary training for a career working with local, state, or federal agencies as a biologist or environmental scientist. It will also prepare students for graduate study in the Biological Sciences.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>5</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHEM 20 Organic Chemistry Lecture-Brief Course</td>
<td>3 -</td>
</tr>
<tr>
<td></td>
<td>CHEM 24 Organic Chemistry Lecture I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&amp; CHEM 124 Organic Chemistry Lecture II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 26A Calculus I for the Social and Life Sciences</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MATH 30 Calculus I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHYS 5A General Physics: Mechanics, Heat, Sound</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PHYS 5B General Physics: Light, Electricity and Magnetism, Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>STAT 1 Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select from the following concentrations:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Biology</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Biomedical Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cell and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Clinical Laboratory Sciences</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Ecology, Evolution, and Conservation</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Forensic Biology</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>73-85</td>
</tr>
</tbody>
</table>

Notes:

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 36 upper division unit requirement in the major except in the Biomedical Sciences Concentration.)
• Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
• With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.

Concentration in Ecology, Evolution, and Conservation (29 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 160</td>
<td>General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 167</td>
<td>Quantitative Methods in Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 178</td>
<td>Molecular Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIO/ENVS 186B</td>
<td>Ecological and Environmental Issues Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BIO 188</td>
<td>Evolution</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (15 Units)

Select one of the following Structure and Function electives: 3
- BIO 104      Physiology of Human Reproduction
- BIO 122      Advanced Human Anatomy
- BIO 123      Neuroanatomy
- BIO 126      Comparative Vertebrate Morphology
- BIO 127      Developmental Biology
- BIO 128      Plant Anatomy and Physiology
- BIO 130      Histology
- BIO 131      Systemic Physiology
- BIO 132      Neurophysiology
- BIO 133      Cardiovascular, Respiratory and Renal Physiology

Select three of the following Ecology, Evolution, and Biodiversity electives: 9

Part A: Biodiversity Electives
- BIO 103      Plants and Civilization
- BIO 112      Plant Taxonomy
- BIO 145      The Diversity of Microorganisms
- BIO 152      Human Parasitology
- BIO 157      General Entomology
- BIO 162      Ichthyology: The Study of Fishes
- BIO 164      Amphibians and Reptiles: An Introduction to Herpetology
- BIO 166      Ornithology
- BIO 168      Mammalogy

Part B: Ecology and Evolution Electives
- BIO 113      Evolution and Speciation in Flowering Plants
- BIO 118      Natural Resource Conservation
- BIO 169      Animal Behavior
- BIO 173      Principles of Fisheries Biology
- BIO 179      Conservation Biology & Wildlife Management

Select additional upper division elective courses in consultation with an advisor to total 15 upper division elective units 3

Total Units 29

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 195</td>
<td>Biological Internship</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 197A</td>
<td>Laboratory Teaching Assistant</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 197B</td>
<td>Laboratory Techniques</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 197C</td>
<td>Co-curricular Activities in Biology</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 199A</td>
<td>Introductory Undergraduate Research</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 199B</td>
<td>Directed Readings</td>
<td>1 - 2</td>
</tr>
</tbody>
</table>

At least one course must be from Part A and one course from Part B (each course must be a minimum of 3 units).

- No more than 3 units from the following combined can be applied to the Biological Sciences upper division major requirement. No more than 2 units from BIO 195 and 197 series courses may count toward this requirement.

1 At least one course must be from Part A and one course from Part B (each course must be a minimum of 3 units).
BS in Biological Science (General Biology)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).
Total units required for BS: 120

Program Description

The general biology concentration is intended to give students a broad training in the Biological Sciences and an opportunity to explore a wide range of elective courses. It also provides necessary preparation for most graduate programs and selected entry level technical positions in industry and government. The BS in Biological Sciences meets the Subject Matter Competency requirement to enter a Biology Single Subject Teaching Credential Program (the Biology Subject Matter Waiver Program requires three additional geoscience and environmental studies courses) and also satisfies requirements for admission to health professional schools (with additional coursework in Math and Chemistry).

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Lower Division Core Courses (37-41 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>5</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3-6</td>
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</tr>
<tr>
<td>CHEM 20</td>
<td>Organic Chemistry Lecture–Brief Course</td>
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<tr>
<td>CHEM 24</td>
<td>Organic Chemistry Lecture I</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 124</td>
<td>Organic Chemistry Lecture II</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
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</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
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</tr>
<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
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<td>STAT 1</td>
<td>Introduction to Statistics</td>
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</tr>
<tr>
<td><strong>Required Upper Division Core Courses (7 Units)</strong></td>
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<td></td>
</tr>
<tr>
<td>BIO 100</td>
<td>Introduction to Scientific Analysis</td>
<td>3</td>
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<tr>
<td>BIO 184</td>
<td>General Genetics</td>
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</tr>
<tr>
<td><strong>Concentration (29-37 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select from the following concentrations:</td>
<td>29-37</td>
<td></td>
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<tr>
<td>General Biology</td>
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<tr>
<td>Ecology, Evolution, and Conservation</td>
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<tr>
<td>Forensic Biology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microbiology</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>73-85</td>
<td></td>
</tr>
</tbody>
</table>

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 36 upper division unit requirement in the major except in the Biomedical Sciences Concentration.)

Notes:
- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
- With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.
Concentration in General Biology (29 units)

Required Courses (16 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIO 121</td>
<td>Molecular Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 139</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 160</td>
<td>General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 188</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 161</td>
<td>General Biochemistry</td>
<td>3</td>
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</tbody>
</table>

Elective Courses (13 Units)

Select one of the following Structure and Function electives: 3 units

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIO 104</td>
<td>Physiology of Human Reproduction</td>
<td>3</td>
</tr>
<tr>
<td>BIO 122</td>
<td>Advanced Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>BIO 123</td>
<td>Neuroanatomy</td>
<td>3</td>
</tr>
<tr>
<td>BIO 126</td>
<td>Comparative Vertebrate Morphology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 127</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 128</td>
<td>Plant Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 130</td>
<td>Histology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 132</td>
<td>Neurophysiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 133</td>
<td>Cardiovascular, Respiratory and Renal Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select additional upper division elective courses in consultation with an advisor to total 13 total upper division elective units.

Total Units 29

1 CHEM 160A and CHEM 160B may be taken in lieu of CHEM 161. Only three units of the package may be counted toward the upper division requirement.

* No more than 3 units from the following combined can be applied to the Biological Sciences upper division major requirement. No more than 2 units of BIO 195 and 197 series courses can count toward the upper division major requirement.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
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<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td>6</td>
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</table>

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area B: Physical Universe and Its Life Forms (3 Units)

B1 - Physical Science 2

B2 - Life Forms 2

B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) 2

B4 - Math Concepts 2

B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.

Area C: Arts and Humanities (12 Units)

C1 - Arts | 3

C2 - Humanities | 3

C1/C2 - Area C Course | 3

Area D: The Individual and Society (9 Units)

Area D Course | 3

Area D Course | 3

Area D Course - Take upper-division course to complete Area & upper division requirements.

Area E: Understanding Personal Development (3 Units)

Area E Course | 3

Area F: Ethnic Studies (3 Units)

Area F Course | 3

Total Units 39

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.
BS in Biological Science (Microbiology)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).
Total units required for BS: 120

Program Requirements

The concentration in Microbiology is designed to prepare students for entry level technical positions in the industry and graduate programs in Microbiology leading to careers in research and teaching. This curriculum meets the educational requirements for various entry level career positions for biotechnology, environmental, pharmaceutical, wastewater treatment, and agricultural areas of microbiology. Concentration includes a minor in Chemistry.

Concentration in Microbiology (34-36 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 121</td>
<td>Molecular Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 139</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 143</td>
<td>General Virology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 145</td>
<td>The Diversity of Microorganisms</td>
<td>4</td>
</tr>
<tr>
<td>BIO 180</td>
<td>Advanced Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 20L</td>
<td>Introductory Organic Chemistry Laboratory</td>
<td>1 - 3</td>
</tr>
<tr>
<td>CHEM 24</td>
<td>Organic Chemistry Lecture I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 124</td>
<td>Organic Chemistry Lecture II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 31</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 161</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 162</td>
<td>General Biochemistry Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Courses (5 Units)

Select 5 units from the following Cell and Molecular Biology electives or Clinical Laboratory Science and Infectious Disease electives: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 149A</td>
<td>Immunology</td>
<td></td>
</tr>
<tr>
<td>BIO 150</td>
<td>Forensic Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 151</td>
<td>Advanced Laboratory Techniques in Forensic Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 178</td>
<td>Molecular Ecology</td>
<td></td>
</tr>
<tr>
<td>BIO 170</td>
<td>Advanced Nutrition and Metabolism</td>
<td></td>
</tr>
<tr>
<td>BIO 183</td>
<td>Cancer Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 185</td>
<td>Topics in Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 186A</td>
<td>Cell and Molecular Biology Seminar</td>
<td></td>
</tr>
<tr>
<td>BIO 187</td>
<td>Advanced Cell Biology</td>
<td></td>
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Ecology, Evolution, and Conservation

Forensic Biology

Microbiology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>BIO 134</td>
<td>Medical Mycology</td>
<td></td>
</tr>
<tr>
<td>BIO 140</td>
<td>Medical Microbiology and Emerging Infectious Diseases</td>
<td></td>
</tr>
<tr>
<td>BIO 144</td>
<td>Pathogenic Bacteriology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 149B</td>
<td>Immunology and Serology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIO 152</td>
<td>Human Parasitology</td>
<td></td>
</tr>
</tbody>
</table>

Notes:

- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
- With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.

If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)
General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area B: Physical Universe and Its Life Forms (3 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>3</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area C: Arts and Humanities (12 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area D: The Individual and Society (9 Units)</strong></td>
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</tr>
<tr>
<td>D1</td>
<td>Upper Division Course</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Upper Division Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area E: Understanding Personal Development (3 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>E1</td>
<td>Upper Division Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area F: Ethnic Studies (3 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>F1</td>
<td>Upper Division Course</td>
<td>3</td>
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</table>

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Graduation Requirements (required by CSU) (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Graduation Requirements (required by Sacramento State) (12 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Proficiency Requirement</td>
<td>3</td>
</tr>
</tbody>
</table>

Certificate in Issues in Natural Resource Management

Units required for Certificate: 15, in addition to requirements for BS

Program Description

The Academic Achievement Certificate in Issues in Natural Resource Management is designed to provide an interdisciplinary perspective on the conflicts, controversies, and biopolitical issues that natural resource biologists must deal with in their careers, and to introduce students to the
non-biological considerations that influence decision making processes in natural resource utilization and management.

A minimum of 15 units selected from the following list in addition to requirements for the BS in Biological Sciences with a concentration in Biological Conservation. The certificate may also be awarded to students completing the BS in General Biology with the approval of the Biological Conservation advisors.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a minimum of 15 units from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 120</td>
<td>Economics and Environmental Degradation</td>
<td>15</td>
</tr>
<tr>
<td>ECON 123</td>
<td>Resource Economics</td>
<td></td>
</tr>
<tr>
<td>ENVS 110</td>
<td>Contemporary Environmental Issues</td>
<td></td>
</tr>
<tr>
<td>ENVS 112</td>
<td>International Environmental Problems</td>
<td></td>
</tr>
<tr>
<td>ENVS/POLS</td>
<td>Environment and the Law</td>
<td>128</td>
</tr>
<tr>
<td>GEOG 161</td>
<td>California's Water Resources</td>
<td></td>
</tr>
<tr>
<td>GEOL 140</td>
<td>Geology and the Environment</td>
<td></td>
</tr>
<tr>
<td>POLS 170</td>
<td>Public Policy Development</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Cooperative Education Program (Work Experience)**

**Program Description**

Biology majors can participate in the University's Cooperative Education Program. This program provides biology-related, paid, off-campus work experience in government agencies or private industry. The experience can enhance the student's employment prospects upon graduation. Participants in this program will complete at least one six-month period. During the work period, the participant generally will not attend classes on the Sacramento State campus but will enroll in BIO 194, Biology-Related Work Experience. (BIO 194 units do not replace the curricular requirements of the Biological Sciences degree programs.)

Students interested in this program should contact the Biological Sciences Department or the campus Cooperative Education Program Office for further information.

**MA in Biological Science (Stem Cell)**

*This program has been scheduled for discontinuation; please see the MS in Biotechnology ([https://catalog.csus.edu/colleges/natural-sciences-mathematics/biological-sciences/bs-biotechnology/](https://catalog.csus.edu/colleges/natural-sciences-mathematics/biological-sciences/bs-biotechnology/)).*

Units required for MA: 30 includes units required in areas of concentration.

**Program Description**

The graduate programs in Biological Sciences lead to either a Master of Arts (MA) or a Master of Science (MS) degree and provides an opportunity for students to receive advanced training and to pursue independent investigations in particular fields of biology. It allows students to upgrade their qualifications for educational advancement to doctoral programs or for professional advancement in teaching, laboratory work, or fieldwork. The MA degree requires the completion of a project which is a Grant Proposal, unless the student is in the Stem Cell Concentration which requires an Internship Project Report. The MS degree requires completion of a thesis which has concentrations in Ecology, Evolution and Conservation and in Molecular and Cellular Biology so as to provide advanced training and research experience in these fields.

All students are required to complete a project or thesis involving field, laboratory, or literature research. The project or thesis research may be conducted on campus with a biology faculty member or at an off-campus location. In either case, the student's research must make a new contribution to the field of biology. If the research is conducted off campus, a biology faculty member must be identified as the student’s graduate advisor. Following admission to the program, students are advised by a temporary graduate advisor or by the faculty member who has agreed to supervise the student in their project/thesis research. Students should plan their academic programs in consultation with a graduate advisor as early as possible, preferably prior to enrollment in the program.

For additional information regarding the Biological Sciences Graduate Program, students may contact the Biological Sciences Department Office, Biological Sciences website ([http://www.csus.edu/bios/](http://www.csus.edu/bios/)), or consult the Biological Sciences Graduate Program Handbook, available through the Department’s Web site.

**Admission Requirements**

Admission as a classified graduate student to the MA or MS program in Biological Sciences requires:

- a baccalaureate degree;
- completion of a major in biological sciences or closely related field; or completion of 24 units of upper division biological sciences courses or courses in closely related fields, each of which must be passed with a "C-" or better;
- a minimum GPA of 2.75 in all biology courses and a minimum GPA of 3.0 in upper division biology courses;
- GRE General Test scores (note: the GRE is not required for the Stem Cell Program);
- a faculty member who has agreed to serve as their graduate advisor;
- two letters of recommendation from persons qualified to judge the applicant’s potential for successful graduate study; and
- a statement of purpose.

It is important to note that meeting all admission requirements does not guarantee acceptance into the graduate program. Students who have deficiencies in admission requirements that can be removed by specified additional preparation, or who have not been accepted by a graduate advisor, may be admitted with conditionally classified graduate status. Admission as a conditionally classified graduate student does not guarantee fully classified status. Fully classified graduate status is conferred when all deficiencies identified at the time of admission are removed and a biology faculty member has agreed to serve as their thesis advisor. Any deficiencies in admissions requirements will be noted on a written response to the admission application.

**Admission Procedures**

Applicants must complete a university application by the posted application deadline date for the term applying.
• an online application for admission; and
• two sets of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/

In addition, all prospective graduate students must submit the following application materials directly to the Department of Biological Sciences:

• an online departmental application for admission;
• one set of unofficial transcripts from all colleges and universities attended, other than Sacramento State;
• GRE General Test scores (NOTE: GRE General Test scores will be accepted after the application deadline but only if the test was taken prior to the deadline; GRE scores are not needed for the MA Stem Cell Program);
• two letters of recommendation; and
• a statement of purpose.

Departmental applications for admission are due February 1. There is currently no general call for admission to begin in the spring semester. However a student may petition the department to begin the spring. Please contact your potential graduate advisor (i.e., a faculty member in your area of interest) to discuss this option. Approximately eight to ten weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

No units from the following are acceptable toward the master’s degree:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 106</td>
<td>Genetics: From Mendel to Molecules</td>
<td>3</td>
</tr>
<tr>
<td>BIO 194</td>
<td>Biology-Related Work Experience</td>
<td>6/12</td>
</tr>
<tr>
<td>BIO 195</td>
<td>Biological Internship</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO 197A</td>
<td>Laboratory Teaching Assistant</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO 197B</td>
<td>Laboratory Techniques</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO 197C</td>
<td>Co-curricular Activities in Biology</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO 198A</td>
<td>Honors Proseminar and Research</td>
<td>2</td>
</tr>
<tr>
<td>BIO 198B</td>
<td>Honors Research and Seminar</td>
<td>2</td>
</tr>
<tr>
<td>BIO 199A</td>
<td>Introductory Undergraduate Research</td>
<td>2</td>
</tr>
<tr>
<td>BIO 199B</td>
<td>Directed Readings</td>
<td>1-2</td>
</tr>
</tbody>
</table>

**Minimum Units and Grade Requirement for the Degree**

Units required for MA: 30 (includes units required in areas of concentration).

Minimum Cumulative GPA: 3.0

**Advancement to Candidacy**

The Advancement to Candidacy process serves to ensure that a student is qualified for and making good progress toward successfully completing the Master’s degree. Each classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

• removed any deficiencies in admission requirements;
• completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one course at the 200-level;
• begun a preliminary study for the thesis or project; and
• taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

An Application for Advancement to Candidacy forms are available on the Office of Graduate Studies Web site and the Department of Biological Sciences Web site. The student fills out the form after planning a degree program in consultation with his/her Biological Sciences graduate advisor. After approval by the Biological Sciences Graduate Committee and the student’s thesis committee, the completed form is returned to the Office of Graduate Studies for approval.

All requirements for the Master of Arts degree must be completed within seven (7) years starting from the time the first course is used to meet the master’s degree requirements.

**Program Requirements**

**Concentration in Stem Cell (30 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 220</td>
<td>Introduction to Scientific Inquiry</td>
<td>2</td>
</tr>
<tr>
<td>BIO 221A</td>
<td>Cell and Molecular Methods and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>BIO 222</td>
<td>Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 224</td>
<td>Genomics, Proteomics, and Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>BIO 225</td>
<td>Stem Cell Biology and Manufacturing Practices</td>
<td>1</td>
</tr>
<tr>
<td>BIO 227</td>
<td>Development and Regenerative Medicine</td>
<td>3</td>
</tr>
<tr>
<td>BIO 293</td>
<td>Research Conference</td>
<td>2</td>
</tr>
<tr>
<td>BIO 294A</td>
<td>Seminar in Molecular and Cellular Biology</td>
<td>1</td>
</tr>
<tr>
<td>BIO 299</td>
<td>Problems in Biological Sciences (course taken twice for a total of 8 units)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Culminating Requirement (2 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIO 502</td>
<td>Master’s Project</td>
<td>2</td>
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</tbody>
</table>

**Additional Requirements (3 Units)**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 223</td>
<td>Human Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO 245</td>
<td>Host/Pathogen Interactions</td>
<td></td>
</tr>
<tr>
<td>BIO 247</td>
<td>Contemporary Topics in Immunology</td>
<td></td>
</tr>
<tr>
<td>BIO 282</td>
<td>Evolution</td>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 230</td>
<td>Separation Methods in Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 145/245</td>
<td>Applications of Computational Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 260</td>
<td>Protein Biochemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 261</td>
<td>Nucleic Acid Chemistry</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units** 30

1 The 30 units must include a minimum of 18 units of 200-level courses.
No more than 2 units of BIO 502 may be applied toward the 30 unit requirement.

Each student who receives a Master of Arts degree from the Department of Biological Sciences must submit a written project based on a research problem in biology under the supervision of a graduate advisor. A project may be based on either of the following:

- Grant Proposal: a research proposal in the format required by a state or federal granting agency (e.g., National Science Foundation, National Institutes of Health) based on a novel hypothesis that addresses a biological problem; OR
- Internship Project Report: a project report on the student's internship experience.

MA in Biological Sciences

Units required for MA: 30 includes units required in areas of concentration.

Program Description

The Master of Arts (MA) in Biological Sciences offers advanced training in the biological sciences through coursework and completion of a non-thesis project. The MA degree prepares students for careers in education, government, and industry, as well as for doctoral programs or advancement in teaching, laboratory work, or fieldwork.

Faculty have specializations and expertise in a diverse range of areas within the biological sciences. Students work with a graduate faculty advisor to develop a coursework plan that meets their professional goals, and design and complete their culminating project.

The MA degree requires 30 credit hours of coursework and completion of a project, which takes the form of a grant proposal or a review paper.

For additional information regarding the MA in Biological Sciences, visit the Biological Sciences website (http://www.csus.edu/bios/).

Admission Requirements

Admission as a classified graduate student to the MA in Biological Sciences requires:

- a baccalaureate degree;
- completion of a major in biological sciences or closely related field; or completion of 24 units of upper division biological sciences courses or courses in closely related fields, each of which must be passed with a "C-" or better;
- a minimum GPA of 2.75 in all biology courses and a minimum GPA of 3.0 in upper division biology courses; and
- a faculty member who has agreed to serve as the applicant's graduate advisor.*

It is important to note that meeting all admission requirements does not guarantee acceptance into the graduate program. Applicants who have deficiencies in admission requirements (e.g., GPA, coursework) that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Admission as a conditionally classified graduate student does not guarantee fully classified status. Fully classified graduate status is conferred when all deficiencies identified at the time of admission are removed. Any deficiencies in admissions requirements will be noted in a written communication to the applicant.

*For your application to be considered for admission, a faculty member in the Department must agree to serve as your graduate advisor. This requires that you correspond directly with a faculty member with whom you would like to study. We recommend that you do this well ahead of the application deadline to allow sufficient time for correspondence. In your application, you will be asked to enter the name(s) of the faculty member(s) with whom you would like to study and have been in correspondence. This requirement does not apply to applicants to the MA Stem Cell Program.

Admission Procedures

To be considered for admission, all applicants must complete a Cal State Apply application by the posted application deadline date for the term applying and submit all requested application materials below.

A complete application for admission into the Graduate Program in Biological Sciences includes all of the following:

- an online Cal State Apply application for admission;
- one set of official transcripts from all colleges and universities attended, other than Sacramento State;
- a Department supplemental application submitted with the Cal State Apply application;
- two letters of recommendation from persons qualified to judge the applicant's potential for successful graduate study; and
- a statement of purpose.

Applications are due by February 15. For additional university admissions information and application deadlines, visit the Office of Graduate Studies (https://www.csus.edu/graduate-studies/future-students/graduate-programs-deadlines.html). Approximately eight to ten weeks after the application deadline, a decision regarding admission will be emailed to the applicant.

Note: The Department of Biological Sciences currently does not have a call for admission in the spring semester. However, under exceptional circumstances an applicant may petition the department to begin graduate study in the spring. A petition for spring admission requires a compelling reason and support by a faculty member in the department. Please contact your potential graduate advisor (i.e. a faculty member in your area of interest) to discuss this option.

No units from the following are acceptable toward the master's degree:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 106</td>
<td>Genetics: From Mendel to Molecules</td>
<td>3</td>
</tr>
<tr>
<td>BIO 194</td>
<td>Biology-Related Work Experience</td>
<td>6 - 12</td>
</tr>
<tr>
<td>BIO 195</td>
<td>Biological Internship</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 197A</td>
<td>Laboratory Teaching Assistant</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 197B</td>
<td>Laboratory Techniques</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 197C</td>
<td>Co-curricular Activities in Biology</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 198A</td>
<td>Honors Proseminar and Research</td>
<td>2</td>
</tr>
<tr>
<td>BIO 198B</td>
<td>Honors Research and Seminar</td>
<td>2</td>
</tr>
<tr>
<td>BIO 199A</td>
<td>Introductory Undergraduate Research</td>
<td>1 - 2</td>
</tr>
</tbody>
</table>
Minimum Units and Grade Requirement for the Degree
Units required for the MA: 30
Minimum Cumulative GPA: 3.0

Advancement to Candidacy
The Advancement to Candidacy process serves to ensure that the student is qualified for and making good progress toward successfully completing their master's degree. Each classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of study, and receive approval for their proposed project. This procedure can begin as soon as the student has:

- removed any deficiencies in admission requirements (i.e., attained fully classified status);
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one course at the 200-level;
- completed an acceptable draft of the proposed project; and
- taken the Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento and passed the course with a grade of B or better.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student must fill out and submit the form after planning a degree program in consultation with his/her graduate advisor and supervisory committee. After approval by the Department's Graduate Coordinator, the completed form is routed to the Office of Graduate Studies for approval.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core Courses (14 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 220A</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BIO 220B</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select any combination of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 294A</td>
<td>Seminar in Molecular and Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 294B</td>
<td>Seminar in Ecology, Evolution and Conservation</td>
<td>3</td>
</tr>
<tr>
<td>BIO 294C</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>BIO 299</td>
<td>Problems in Biological Sciences</td>
<td>1</td>
</tr>
<tr>
<td>Culminating Experience (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 502</td>
<td>Master’s Project</td>
<td>3</td>
</tr>
<tr>
<td>Elective Courses (13 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select electives in consultation with graduate advisor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 199A</td>
<td>Introductory Undergraduate Research</td>
<td>1</td>
</tr>
<tr>
<td>BIO 199B</td>
<td>Directed Readings</td>
<td>2</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Note: All prerequisites for all courses will be enforced.

Minor in Biological Science
Units required for Minor: 20

Program Description
The minor in Biological Sciences is designed to provide students in other majors with the opportunity to broaden their exposure to and understanding of the biological sciences. The minor complements several majors that require coursework in biological sciences, including Chemistry, Nursing, Environmental Studies, Health Science, Kinesiology, and Family and Consumer Sciences.

The minor requires 20 units. The 20 units must include a minimum of 10 upper division units at least one of the upper division courses must have a laboratory component. Three units of biochemistry may be counted toward the minor. Six upper division units must be earned in residence.

Program Requirements
No more than two units of the following may be counted toward the minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 186A</td>
<td>Cell and Molecular Biology Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BIO/ENVS 186B</td>
<td>Ecological and Environmental Issues Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BIO 194</td>
<td>Biology-Related Work Experience</td>
<td>6 -</td>
</tr>
<tr>
<td>BIO 195</td>
<td>Biological Internship</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 197A</td>
<td>Laboratory Teaching Assistant</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 197B</td>
<td>Laboratory Techniques</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 197C</td>
<td>Co-curricular Activities in Biology</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 199A</td>
<td>Introductory Undergraduate Research</td>
<td>1 -</td>
</tr>
<tr>
<td>BIO 199B</td>
<td>Directed Readings</td>
<td>1 -</td>
</tr>
</tbody>
</table>

Note: All prerequisites for all courses will be enforced.

MS in Biological Science (Ecology, Evolution, and Conservation)
This program has been scheduled for discontinuation; please see the MS in Biological Sciences (https://catalog.csus.edu/colleges/natural-sciences-mathematics/biological-sciences/ms-in-biological-science-general/).

Total units required for MS: 30 includes units required in areas of concentration.
Program Description

The graduate programs in Biological Sciences lead to either a Master of Arts (MA) or a Master of Science (MS) degree and provides an opportunity for students to receive advanced training and to pursue independent investigations in particular fields of biology. It allows students to upgrade their qualifications for educational advancement to doctoral programs or for professional advancement in teaching, laboratory work, or fieldwork. The MA degree requires the completion of a project which is a Grant Proposal, unless the student is in the Stem Cell Concentration which requires an Internship Project Report. The MS degree requires completion of a thesis which has concentrations in Ecology, Evolution and Conservation and in Molecular and Cellular Biology so as to provide advanced training and research experience in these fields.

All students are required to complete a project or thesis involving field, laboratory, or literature research. The project or thesis research may be conducted on campus with a biology faculty member or at an off-campus location. In either case, the student’s research must make a new contribution to the field of biology. If the research is conducted off campus, a biology faculty member must be identified as the student’s graduate advisor. Following admission to the program, students are advised by a temporary graduate advisor or by the faculty member who has agreed to supervise the student in their project/thesis research. Students should plan their academic programs in consultation with a graduate advisor as early as possible, preferably prior to enrollment in the program.

For additional information regarding the Biological Sciences Graduate Program, students may contact the Biological Sciences Department Office, Biological Sciences website (http://www.csus.edu/bios/), or consult the Biological Sciences Graduate Program Handbook, available through the Department’s Web site.

Admission Requirements

Admission as a classified graduate student to the MA or MS program in Biological Sciences requires:

• a baccalaureate degree;
• completion of a major in biological sciences or closely related field; or completion of 24 units of upper division biological sciences courses or courses in closely related fields, each of which must be passed with a “C-” or better;
• a minimum GPA of 2.75 in all biology courses and a minimum GPA of 3.0 in upper division biology courses;
• a faculty member who has agreed to serve as their graduate advisor (Note: For your application to be considered for admission, you must correspond with a faculty member in the department with whom you would like to work prior to the application deadline. We suggest you do this well in advance of the application deadline. You will be asked to enter the name(s) of the faculty member(s) with whom you have been in correspondence on the Department Application. This requirement does not apply to applicants to the MA Stem Cell Concentration);
• two letters of recommendation from persons qualified to judge the applicant’s potential for successful graduate study; and
• a statement of purpose.

It is important to note that meeting all admission requirements does not guarantee acceptance into the graduate program. Students who have deficiencies in admission requirements that can be removed by specified additional preparation, or who have not been accepted by a graduate advisor, may be admitted with conditionally classified graduate status. Admission as a conditionally classified graduate student does not guarantee fully classified status. Fully classified graduate status is conferred when all deficiencies identified at the time of admission are removed and a biology faculty member has agreed to serve as their thesis advisor. Any deficiencies in admissions requirements will be noted on a written response to the admission application.

Admission Procedures

Applicants must complete a university application by the posted application deadline date for the term applying.

• an online application for admission; and
• two sets of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/.

In addition, all prospective graduate students must submit the following application materials directly to the Department of Biological Sciences:

• an online departmental application for admission;
• one set of unofficial transcripts from all colleges and universities attended, other than Sacramento State;
• two letters of recommendation; and
• a statement of purpose.

Departmental applications for admission are due February 1. There is currently no general call for admission for students to begin in the spring semester. However a student may petition the department to begin the spring. Please contact your potential graduate advisor (i.e., a faculty member in your area of interest) to discuss this option. Approximately eight to ten weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

No units from the following are acceptable toward the master’s degree:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 106</td>
<td>Genetics: From Mendel to Molecules</td>
<td>3</td>
</tr>
<tr>
<td>BIO 194</td>
<td>Biology-Related Work Experience</td>
<td>6-12</td>
</tr>
<tr>
<td>BIO 195</td>
<td>Biological Internship</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO 197A</td>
<td>Laboratory Teaching Assistant</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO 197B</td>
<td>Laboratory Techniques</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO 197C</td>
<td>Co-curricular Activities in Biology</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO 198A</td>
<td>Honors Proseminar and Research</td>
<td>2</td>
</tr>
<tr>
<td>BIO 198B</td>
<td>Honors Research and Seminar</td>
<td>2</td>
</tr>
<tr>
<td>BIO 199A</td>
<td>Introductory Undergraduate Research</td>
<td>1-2</td>
</tr>
<tr>
<td>BIO 199B</td>
<td>Directed Readings</td>
<td>1-2</td>
</tr>
</tbody>
</table>

Minimum Units and Grade Requirements for the Degree

Units required for the MS: 30 includes units required in areas of concentration
Minimum Cumulative GPA: 3.0

**Advancement to Candidacy**

The Advancement to Candidacy process serves to ensure that a student is qualified for and making good progress toward successfully completing the Master’s degree. Each classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one course at the 200-level;
- begun a preliminary study for the thesis or project; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

An Application for Advancement to Candidacy forms are available on the Office of Graduate Studies website and the Department of Biological Sciences Web site. The student fills out the form after planning a degree program in consultation with his/her Biological Sciences graduate advisor. After approval by the Biological Sciences Graduate Committee and the student’s thesis committee, the completed form is returned to the Office of Graduate Studies for approval.

**Note:**

Supporting Fields: A maximum of 10 units from an approved supporting field (e.g., Chemistry, Physics, Environmental Studies, Geology, Physics) may be counted toward the degree, with graduate advisor and graduate committee approval obtained before taking the course(s).

No more than 10 units of BIO 299 and BIO 500 may be applied toward the 30 unit requirement.

Each student who receives a Master’s of Science degree from the Department of Biological Sciences must submit a thesis based on original research in biology. A thesis can be based on either of the following sources of data:

- data generated by the student’s original research in which the student performs the fieldwork or laboratory experiments and/or
- data obtained from sources other than the student’s own fieldwork or laboratory experiments, provided the data are analyzed in an original way.

The use of data must result in an original contribution to the problem being investigated.

All requirements for the Master’s degree must be completed within seven (7) years starting from the time the first course is used to meet the master’s degree requirements.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Core Courses (12 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 220</td>
<td>Introduction to Scientific Inquiry</td>
<td>2</td>
</tr>
<tr>
<td>BIO 294A or BIO 294B</td>
<td>Seminar in Molecular and Cellular Biology</td>
<td>1</td>
</tr>
<tr>
<td>BIO 299</td>
<td>Problems in Biological Sciences</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 221A</td>
<td>Cell and Molecular Methods and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>or BIO 221B</td>
<td>Methods in Ecology, Evolution and Conservation</td>
<td></td>
</tr>
<tr>
<td>BIO 500</td>
<td>Master’s Thesis</td>
<td>4</td>
</tr>
</tbody>
</table>

**Culminating Requirement (4 Units)**

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BIO 500</td>
<td>Master’s Thesis</td>
<td>4</td>
</tr>
</tbody>
</table>

**Additional Requirements for Concentrations (14 Units)**

Select a concentration from the following:

- Ecology, Evolution and Conservation
- Molecular and Cellular Biology

**Total Units**

- The 30 units must include a minimum of 18 units of 200-level seminar courses.
- Students must take BIO 294 two times to fulfill degree requirements.
- Students must complete 6 units of BIO 299 to fulfill degree requirements.

**Concentration in Ecology, Evolution, and Conservation (16 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 221B</td>
<td>Methods in Ecology, Evolution and Conservation</td>
<td>2</td>
</tr>
<tr>
<td>BIO 282</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>Select 11 approved electives</td>
<td></td>
<td>11</td>
</tr>
</tbody>
</table>

**Total Units**

- Approved electives in Biological Sciences or supporting fields. Electives must be selected in consultation with the graduate advisor and approved at the Advancement to Candidacy meeting. Up to two additional units of BIO 294B (up to 4 total) taken as a graduate student in the program may be applied to the MS degree.

**MS in Biological Science (Molecular and Cellular Biology)**

*This program has been scheduled for discontinuation; please see the [MS in Biological Sciences](https://catalog.csus.edu/colleges/natural-sciences-mathematics/biological-sciences/ms-in-biological-science-general/) for more information.*

Total units required for MS: 30 includes units required in areas of concentration.

**Program Description**

The graduate programs in Biological Sciences lead to either a Master of Arts (MA) or a Master of Science (MS) degree and provides an opportunity for students to receive advanced training and to pursue independent investigations in particular fields of biology. It allows students to upgrade their qualifications for educational advancement to doctoral programs or for professional advancement in teaching, laboratory work, or fieldwork. The MA degree requires the completion of a project which is a Grant Proposal, unless the student is in the Stem Cell Concentration which requires an Internship Project Report. The MS degree requires completion of a thesis which has concentrations in Ecology, Evolution and Conservation and in Molecular and Cellular Biology so as to provide advanced training and research experience in these fields.

All students are required to complete a project or thesis involving field, laboratory, or literature research. The project or thesis research may
be conducted on campus with a biology faculty member or at an off-campus location. In either case, the student’s research must make a new contribution to the field of biology. If the research is conducted off campus, a biology faculty member must be identified as the student’s graduate advisor. Following admission to the program, students are advised by a temporary graduate advisor or by the faculty member who has agreed to supervise the student in their project/thesis research. Students should plan their academic programs in consultation with a graduate advisor as early as possible, preferably prior to enrollment in the program.

For additional information regarding the Biological Sciences Graduate Program, students may contact the Biological Sciences Department Office, Biological Sciences website (http://www.csus.edu/bios/), or consult the Biological Sciences Graduate Program Handbook, available through the Department’s Web site.

Admission Requirements

Admission as a classified graduate student to the MA or MS program in Biological Sciences requires:

- a baccalaureate degree;
- completion of a major in biological sciences or closely related field; or completion of 24 units of upper division biological sciences courses or courses in closely related fields, each of which must be passed with a “C+” or better;
- a minimum GPA of 2.75 in all biology courses and a minimum GPA of 3.0 in upper division biology courses;
- a faculty member who has agreed to serve as their graduate advisor (Note: For your application to be considered for admission, you must correspond with a faculty member in the department with whom you would like to work prior to the application deadline. We suggest you do this well in advance of the application deadline. You will be asked to enter the name(s) of the faculty member(s) with whom you have been in correspondence on the Department Application. This requirement does not apply to applicants to the MA Stem Cell Concentration);
- two letters of recommendation from persons qualified to judge the applicant’s potential for successful graduate study; and
- a statement of purpose.

It is important to note that meeting all admission requirements does not guarantee acceptance into the graduate program. Students who have deficiencies in admission requirements that can be removed by specified additional preparation, or who have not been accepted by a graduate advisor, may be admitted with conditionally classified graduate status. Admission as a conditionally classified graduate student does not guarantee fully classified status. Fully classified graduate status is conferred when all deficiencies identified at the time of admission are removed and a biology faculty member has agreed to serve as their thesis advisor. Any deficiencies in admissions requirements will be noted on a written response to the admission application.

Admission Procedures

Applicants must complete a university application by the posted application deadline date for the term applying:

- an online application for admission; and
- two sets of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/.

In addition, all prospective graduate students must submit the following application materials directly to the Department of Biological Sciences:

- an online departmental application for admission;
- one set of unofficial transcripts from all colleges and universities attended, other than Sacramento State;
- two letters of recommendation; and
- a statement of purpose.

Departmental applications for admission are due February 1. There is currently no general call for admission for students to begin in the spring semester. However a student may petition the department to begin the spring. Please contact your potential graduate advisor (i.e., a faculty member in your area of interest) to discuss this option. Approximately eight to ten weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

No units from the following are acceptable toward the master’s degree:

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<thead>
<tr>
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<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 106</td>
<td>Genetics: From Mendel to Molecules</td>
<td>3</td>
</tr>
<tr>
<td>BIO 194</td>
<td>Biology-Related Work Experience</td>
<td>6 - 12</td>
</tr>
<tr>
<td>BIO 195</td>
<td>Biological Internship</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 197A</td>
<td>Laboratory Teaching Assistant</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 197B</td>
<td>Laboratory Techniques</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 197C</td>
<td>Co-curricular Activities in Biology</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 198A</td>
<td>Honors Proseminar and Research</td>
<td>2</td>
</tr>
<tr>
<td>BIO 198B</td>
<td>Honors Research and Seminar</td>
<td>2</td>
</tr>
<tr>
<td>BIO 199A</td>
<td>Introductory Undergraduate Research</td>
<td>1 - 2</td>
</tr>
<tr>
<td>BIO 199B</td>
<td>Directed Readings</td>
<td>1 - 2</td>
</tr>
</tbody>
</table>

Minimum Units and Grade Requirements for the Degree

Units required for the MS: 30 includes units required in areas of concentration

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

The Advancement to Candidacy process serves to ensure that a student is qualified for and making good progress toward successfully completing the Master’s degree. Each classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one course at the 200-level;
- begun a preliminary study for the thesis or project; and
Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 220</td>
<td>Introduction to Scientific Inquiry</td>
<td>2</td>
</tr>
<tr>
<td>BIO 294A</td>
<td>Seminar in Molecular and Cellular Biology</td>
<td>2</td>
</tr>
<tr>
<td>or BIO 294B</td>
<td>Seminar in Ecology, Evolution and Conservation</td>
<td></td>
</tr>
<tr>
<td>BIO 299</td>
<td>Problems in Biological Sciences</td>
<td>6</td>
</tr>
<tr>
<td>BIO 221A</td>
<td>Cell and Molecular Methods and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>or BIO 221B</td>
<td>Methods in Ecology, Evolution and Conservation</td>
<td></td>
</tr>
</tbody>
</table>

Additional Requirements for Concentrations (14 Units)

- Select a concentration from the following: 14
  - No Concentration
- Ecology, Evolution and Conservation
- Molecular and Cellular Biology

Total Units 30

1 The 30 units must include a minimum of 18 units of 200-level seminar courses.

An Application for Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with his/her Biological Sciences graduate advisor. After approval by the Biological Sciences Graduate Committee and the student's thesis committee, the completed form is returned to the Office of Graduate Studies for approval.

Note:

Supporting Fields: A maximum of 10 units from an approved supporting field (e.g., Chemistry, Physics, Environmental Studies, Geology, Physics) may be counted toward the degree, with graduate advisor and graduate committee approval obtained before taking the course(s).

No more than 10 units of BIO 299 and BIO 500 may be applied toward the 30 unit requirement.

Each student who receives a Master's of Science degree from the Department of Biological Sciences must submit a thesis based on original research in biology. A thesis can be based on either of the following sources of data:

- data generated by the student's original research in which the student performs the fieldwork or laboratory experiments and/or
- data obtained from sources other than the student's own fieldwork or laboratory experiments, provided the data are analyzed in an original way.

The use of data must result in an original contribution to the problem being investigated.

All requirements for the Master's degree must be completed within seven (7) years starting from the time the first course is used to meet the master's degree requirements.

Concentration in Molecular and Cellular Biology (16 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 221A</td>
<td>Cell and Molecular Methods and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>BIO 222</td>
<td>Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 224</td>
<td>Genomics, Proteomics, Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>Select 8 units of approved electives</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

Total Units 16

1 Approved electives in Biological Sciences or supporting fields. Electives must be selected in consultation with the graduate advisor and approved at the Advancement to Candidacy meeting. Up to two additional units of BIO 294A (up to 4 total) coursework taken as a graduate student in the program may be applied to the MS degree.

MS in Biological Sciences

Total units required for MS: 30

Program Description

The Master of Science (MS) in Biological Sciences offers advanced training in the biological sciences through coursework and completion of an original research-based thesis. The MS degree prepares students for careers in education, government, and industry, as well as for doctoral programs or advancement in teaching, laboratory work, or fieldwork.

Faculty have specializations and expertise in a diverse range of areas within the biological sciences. Students work with a graduate faculty advisor to develop a coursework plan that meets their professional goals, design an original research investigation, and complete their thesis. A student's thesis research may be conducted on campus or at an off-campus location under the supervision of their faculty advisor.

The MS degree requires 30 credit hours of coursework, original research, and completion of a thesis that involves biological field and/or laboratory research.

For additional information regarding the MS in Biological Sciences, visit the Biological Sciences website (http://www.csus.edu/bios/).

Admission Requirements

Admission as a classified graduate student to the MS in Biological Sciences requires:

- a baccalaureate degree;
- completion of a major in biological sciences or closely related field; or completion of 24 units of upper division biological sciences courses or courses in closely related fields, each of which must be passed with a "C-" or better;
- a minimum GPA of 2.75 in all biology courses and a minimum GPA of 3.0 in upper division biology courses; and
- a faculty member who has agreed to serve as the applicant's graduate advisor.*

It is important to note that meeting all admission requirements does not guarantee acceptance into the graduate program. Applicants who have
deficiencies in admission requirements (e.g., GPA, coursework) that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Admission as a conditionally classified graduate student does not guarantee fully classified status. Fully classified graduate status is conferred when all deficiencies identified at the time of admission are removed. Any deficiencies in admissions requirements will be noted in a written communication to the applicant.

*For your application to be considered for admission, a faculty member in the Department must agree to serve as your graduate advisor. This requires that you correspond directly with a faculty member with whom you would like to study. We recommend that you do this well ahead of the application deadline to allow sufficient time for correspondence. In your application, you will be asked to enter the name(s) of the faculty member(s) with whom you would like to study and have been in correspondence.

Admission Procedures
To be considered for admission, all applicants must complete a Cal State Apply application by the posted application deadline date for the term applying and submit all requested application materials below.

A complete application for admission into the Graduate Program in Biological Sciences includes all of the following:
• an online Cal State Apply application for admission;
• one set of official transcripts from all colleges and universities attended, other than Sacramento State;
• a Department supplemental application submitted with the Cal State Apply application;
• two letters of recommendation from persons qualified to judge the applicant’s potential for successful graduate study; and
• a statement of purpose.

Applications are due by February 15. For additional university admissions information and application deadlines, visit the Office of Graduate Studies website. The student must fill out and submit the form after completing their master’s degree. Each classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of study, and receive approval for their proposed thesis research. This procedure can begin as soon as the student has:
• removed any deficiencies in admission requirements (i.e., attained fully classified status);
• completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one course at the 200-level;
• completed an acceptable draft of the proposed thesis; and
• taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

Advancement to Candidacy
The Advancement to Candidacy process serves to ensure that the student is qualified for and making good progress toward successfully completing their master's degree. Each classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of study, and receive approval for their proposed thesis research. This procedure can begin as soon as the student has:

Minimum Units and Grade Requirements for the Degree
Units required for the MS: 30
Minimum Cumulative GPA: 3.0

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student must fill out and submit the form after planning a degree program in consultation with his/her graduate advisor and supervisory committee. After approval by the Department’s Graduate Coordinator, the completed form is sent to the Office of Graduate Studies for approval.

Note:
Supporting Fields: A maximum of 10 units from an approved supporting field (e.g., Chemistry, Physics, Environmental Studies, Geology, Physics) may be counted toward the MS in Biological Sciences; graduate advisor and Graduate Committee approval must be obtained before taking any of these course(s).

No more than 12 units of BIO 299 and BIO 500 may be applied toward the 30 unit requirement.

Each student who receives an MS in Biological Sciences must submit a Thesis based on original research in biology. A thesis can be based on either of the following sources of data:
• data generated by the student’s original research, in which the student performs the fieldwork or laboratory experiments; and/or
• data obtained from sources other than the student’s own fieldwork or laboratory experiments, provided that the data are analyzed in an original way.
The use of data must result in an original contribution to the problem being investigated.

All requirements for the Master’s degree must be completed within seven (7) years starting from the time the first course is used to meet the Master’s degree requirements.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 220A</td>
<td>Foundations in Scientific Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>BIO 220B</td>
<td>Scientific Writing and Communication</td>
<td>3</td>
</tr>
<tr>
<td>Select any combination of the following:</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>BIO 294A</td>
<td>Seminar in Molecular and Cellular Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 294B</td>
<td>Seminar in Ecology, Evolution and Conservation</td>
<td></td>
</tr>
<tr>
<td>BIO 294C</td>
<td>Seminar in Scientific Communication</td>
<td></td>
</tr>
<tr>
<td>BIO 299</td>
<td>Problems in Biological Sciences</td>
<td>1</td>
</tr>
</tbody>
</table>

Culminating Experience (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 500</td>
<td>Master’s Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Elective Courses (10 Units)

Select electives in consultation with graduate advisor

Total Units 30

1. The 30 units must include a minimum of 18 units of 200-level seminar courses.
2. Students must complete 6 units of BIO 299 to fulfill degree requirements.
3. Approved electives in Biological Sciences or supporting fields. Electives must be selected in consultation with the graduate advisor and approved at the Advancement to Candidacy meeting. Up to six units of upper division (100-level) coursework taken as a graduate student in the program may be applied to the MS degree.

MS in Biotechnology

Units required for MS: 30 includes units required in areas of concentration.

Program Description

The graduate programs in Biological Sciences offer advanced training and independent investigations in biology that lead to a Master of Science (MS) in Biotechnology. This degree program allows students who successfully complete the program to upgrade their qualifications for careers in the biotechnology sector or for educational advancement to doctoral programs. The MS in Biotechnology requires original research in a biotechnology-centered discipline and completion of a thesis.

All students are required to complete a thesis involving laboratory research. Research for the thesis may be conducted on campus with a biology faculty member or at an off-campus location. In either case, the student’s research must make a new contribution to the field of biotechnology. If the research is conducted off campus, a biology faculty member must be identified as the student’s graduate advisor. Following admission to the program, students are advised by a graduate advisor who will supervise their thesis research.

For additional information regarding the Biological Sciences Graduate Program, visit the Biological Sciences website (http://www.csus.edu/bios/).

Admission Requirements

Admission as a classified graduate student to the MS in Biotechnology requires:

- a baccalaureate degree;
- completion of a major in biological sciences or closely related field; or completion of 24 units of upper division biological sciences courses or courses in closely related fields, each of which must be passed with a "C-" or better;
- a minimum GPA of 2.75 in all biology courses and a minimum GPA of 3.0 in upper division biology courses;
- two letters of recommendation from persons qualified to judge the applicant’s potential for successful graduate study; and
- a statement of purpose.

It is important to note that meeting all admission requirements does not guarantee acceptance into the graduate program. Students who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Admission as a conditionally classified graduate student does not guarantee fully classified status. Fully classified graduate status is conferred when all deficiencies identified at the time of admission are removed and a biology faculty member has agreed to serve as their thesis advisor. Any deficiencies in admissions requirements will be noted on a written response to the admission application.

Admission Procedures

Applicants must complete a university application by the posted application deadline date for the term applying:

- an online Cal State Apply application for admission; and
- one set of official transcripts from all colleges and universities attended, other than Sacramento State. For more admissions information and application deadlines, please visit (https://www.csus.edu/graduate-studies/future-students/graduate-programs-deadlines.html)

In addition, all prospective graduate students must submit the following application materials directly to the Department of Biological Sciences:

- an online departmental application for admission;
- one set of unofficial transcripts from all colleges and universities attended, other than Sacramento State;
- two letters of recommendation; and
- a statement of purpose.

Departmental applications for admission are due February 15. There is currently no general call for admission for students to begin in the spring semester. Approximately eight to ten weeks after the application deadline, a decision regarding admission will be emailed to the applicant.

No units from the following are acceptable toward the master’s degree:
Minimum Units and Grade Requirement for the Degree

Units required for MS: 30
Minimum Cumulative GPA: 3.0

Advancement to Candidacy

The Advancement to Candidacy process serves to ensure that a student is qualified for and making good progress toward successfully completing the Master’s degree. Each classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

• removed any deficiencies in admission requirements;
• completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one course at the 200-level;
• begun a preliminary study for the thesis; and
• taken the Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento and passed the course with a grade of B or better.

An Application for Advancement to Candidacy forms are available on the Office of Graduate Studies Web site and the Department of Biological Sciences Web site. The student fills out the form after planning a degree program in consultation with his/her Biological Sciences graduate advisor. After approval by the Biological Sciences Graduate Committee and the student’s thesis committee, the completed form is routed to the Office of Graduate Studies for approval. All requirements for the Master of Science degree must be completed within seven (7) years starting from the time the first course is used to meet the master’s degree requirements.

Program Requirements

1  The 30 units must include a minimum of 23 units of 200-level courses.
2  BIO 294A must be taken twice for a total of 2 units.

MS in Marine Science

Total units required for MS: 31-34

Program Description

The Master of Science degree in Marine Science is offered as an interdepartmental degree through Biological Sciences in cooperation with Moss Landing Marine Laboratories.

Admission Requirements

The Master of Science degree in Marine Science program is administered through MLML and the Biological Sciences Department. The prospective student must meet the entrance requirements for the program and will be accepted into unclassified or conditionally classified graduate status by normal procedures. The student will become classified upon completion of MLML’s requirements.

A conditionally classified student may become fully classified in the Marine Science program as follows:

• obtain an advisor at MLML and one from the department of the student’s choice at the home campus. Each new student in the MS program at MLML will be assigned an advisor who may or may not be the final thesis advisor;
• make up any coursework deficiencies at either the home campus department (see their regulations) and/or MLML. MSCI 104, and three of the following five courses are prerequisites for classified graduate standing:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 220</td>
<td>Introduction to Scientific Inquiry</td>
<td>2</td>
</tr>
<tr>
<td>BIO 221A</td>
<td>Cell and Molecular Methods and Techniques</td>
<td>2</td>
</tr>
<tr>
<td>MSCI 103</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 141</td>
<td>Geological Oceanography</td>
<td>4</td>
</tr>
</tbody>
</table>
Notes:
- The student must have submitted a thesis approved by the thesis advisory committee. The thesis must conform to the rules set forth by the home campus.
- The student must successfully give an oral thesis defense in the form of a seminar open to the general public. The thesis advisory committee must be present, may require further oral questioning after the seminar, and will evaluate the success of the presentation.

Minimum Units and Grade Requirement for the Degree
Units required for the MS: 31-34
Minimum Cumulative GPA: 3.0
A student becomes eligible for the MS degree in Marine Science after satisfying the following requirements:
- the student has been advanced to candidacy;
- the student has satisfied MLML's requirements for the degree; and
- the student has completed the following curriculum requirements.

Advancement to Candidacy
To be advanced to candidacy, the student must have:
- attained classified standing;
- selected a thesis problem and a thesis advisory committee. The thesis committee will be composed of at least three members, including one faculty member from MLML (who is ordinarily the thesis advisor) and, at the discretion of the home campus, a representative from that campus. The other member or members of the thesis committee may also be from MLML, or from the home campus, or elsewhere, with the approval of the thesis advisor; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Subject Matter Program (Biology)
Units required for Subject Matter Program: 61-65

Program Description
The Science Subject Matter Program (in biology, chemistry, physics, or foundational level general science) is designed to meet the California Commission on Teacher Credentialing (CTC) subject matter requirement for students to enter a California Single Subject teaching credential program. Meeting the subject matter requirement is a credential program admission requirement, and can be met either through a subject matter program (such as those described below) or by taking a state approved content exam (currently the California Subject Exam for Teachers, the CSET). In order to meet the subject matter program requirement, all courses must be completed with a grade of “C” or better. In order to teach public school in California, you must also complete a teaching credential program.

Subject matter programs are not degrees or concentrations; instead they are a series of courses that allow a student to meet the requirements for admission to a teaching credential program. Students must also complete a BA or BS degree (with any major) to fulfill the credential requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MSCI 142</td>
<td>Physical Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 143</td>
<td>Chemical Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 144</td>
<td>Biological Oceanography</td>
<td>4</td>
</tr>
</tbody>
</table>

MSCI 285 Seminar in Marine Biology 2
MSCI 286 Seminar in Marine Geology 2
MSCI 287 Seminar in Oceanography 2
MSCI 289 Master's Thesis 1

Electives (24 Units) 1
Select 9 units of electives from MSCI 200-level courses 9
Select 15 units of electives from MSCI 100-level or above courses as approved by the thesis committee. The following courses may be used:
- MSCI 112 Marine Birds and Mammals
- MSCI 113 Marine Ichthyology
- MSCI 124 Marine Invertebrate Zoology I
- MSCI 125 Marine Invertebrate Zoology II
- MSCI 131 Marine Botany
- MSCI 201 Library Research Methods
- MSCI 202 Oceanographic Instrumentation
- MSCI 211 Ecology of Marine Birds and Mammals
- MSCI 212 Advanced Topics in Marine Vertebrates
- MSCI 221 Advanced Topics in Marine Invertebrates
- MSCI 231 Biology Of Seaweeds
- MSCI 234 Advanced Biological Oceanography
- MSCI 242 Plate Tectonics
- MSCI 248 Marine Benthic Habitat Techniques
- MSCI 251 Marine Geochemistry
- MSCI 261 Ocean Circulation and Mixing
- MSCI 271 Population Biology
- MSCI 272 Subtidal Ecology
- MSCI 280 Scientific Writing
- MSCI 298 Research in the Marine Sciences

Total Units 31-34

1 Other electives, including courses from home campus departments, may be included after consultation with the thesis advisory committee. See course descriptions for prerequisites.
Science majors who intend to pursue a teaching credential should see a faculty advisor or the department chair in the department of their academic major. It is recommended that they do so early as it is critical that their coursework be carefully planned and coordinated to include the required subject matter program courses. In addition, students are encouraged to become involved with education related activities like grading, assisting in labs, tutoring K-12 students, and visiting schools; please speak with the subject matter advisors in your area for more information.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 4A</td>
<td>Introduction to the Solar System</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 4B</td>
<td>Introduction to Stars, Galaxies, and Cosmology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>10</td>
</tr>
<tr>
<td>&amp; BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>ENVS 10</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 10</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Select one of the following:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHYS 5A</td>
<td>8 -</td>
</tr>
<tr>
<td></td>
<td>&amp; PHYS 5B</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>General Physics: Mechanics, Heat, Sound</td>
<td></td>
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<tr>
<td></td>
<td>General Physics: Light, Electricity and Magnetism, Modern Physics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHYS 11A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&amp; PHYS 11B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&amp; PHYS 11C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Physics: Mechanics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Physics: Electricity and Magnetism</td>
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</tbody>
</table>

**Required Upper Division Core Courses (21 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 121</td>
<td>Molecular Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 139</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 160</td>
<td>General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 184</td>
<td>General Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO 188</td>
<td>Evolution</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**: 61-65

1. Course also satisfies General Education (GE)/Graduation Requirement.

**Note:**

- BIO 195T is highly recommended for students interested in pursuing a biology credential in the CSU system; 45 hours of documented work with the target school age is required prior to admission in a credential program.

**Chemistry**

*College of Natural Sciences and Mathematics*

**Program Description**

Chemistry is the area of science in which the composition, structure, properties, and reactions of substances are studied. The Chemistry Department at Sacramento State offers a BS in Chemistry, a BS in Biochemistry, a BA in Chemistry (including concentrations in Biochemistry or Forensic Chemistry), and the MS degree in Chemistry (including a concentration in Biochemistry).

The BS degrees are recommended for students intending to pursue graduate work in Chemistry or Biochemistry or those desiring a strong technical background for work in the chemical or biotechnology industry or other highly technical areas. The BS Chemistry degree is approved by the American Chemical Society.

The BA degree is more flexible in terms of upper division electives and is recommended for students interested in professional health degrees, forensic chemistry, or other programs with a major component of chemistry. Students planning to teach Chemistry at the secondary school level are advised to obtain a BA in Chemistry.

The graduate program in Chemistry leads to a Master of Science (MS) degree. It provides students an opportunity to receive advanced training in chemistry, biochemistry, and chemical education and to pursue independent research. The MS program enhances a student’s overall knowledge in chemistry and experimental skills and prepares students for careers in industry and teaching and for entry into PhD and professional programs.

**Degree Programs**

- BA in Chemistry (Biochemistry) (p. 843)
- BA in Chemistry (Forensic Chemistry) (p. 844)
- BA in Chemistry (General) (p. 846)
- BS in Biochemistry (p. 847)
- BS in Chemistry (p. 849)
- Chemistry Honors Program (p. 850)
- Minor in Chemistry (p. 851)
- Subject Matter Program (Pre-Credential Preparation) (p. 855)
- MS in Chemistry (p. 851)
- MS in Chemistry (Biochemistry) (p. 853)

**Accreditation**

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Arts and the Bachelor of Science in Chemistry are also individually accredited by the American Chemical Society.

**Notice to Students RE: Professional Licensure and Certification**

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s...
requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

**Special Features**
- The Department of Chemistry is accredited by the American Chemical Society, and students graduating with the BS Chemistry degree will receive a certificate from the Society.
- Extensive available instrumentation includes two Agilent 7890 GC-Mass spectrometers; an Agilent 1260/6460 LC-Mass spectrometer (triple quadrupole); a Bruker Avance-500 NMR; a Bruker Avance-300 NMR; a Bruker MSL 300MHz wide bore NMR; a Nicolet IS-50 FTIR; a Shimadzu UV-2401 PC spectrometer; two Shimadzu spectrofluorometers (RF 6000 and RFS301PC); numerous uv-vis diode array spectrophotometers; a Beckman L2-50 ultracentrifuge; numerous Agilent/HPLC systems; a Perkin-Elmer atomic absorption spectrometer; a thermoanalyzer; a QuantumCube computational system; Spartan and Gaussian computational chemistry software; numerous gas chromatographs.
- Several science computing labs are available to students.
- The Chemistry faculty strongly believe that students majoring in Chemistry should have an opportunity to participate in basic or applied research and to work closely with faculty in developing their chemical skills and knowledge. Bachelor of Science and Bachelor of Arts majors are strongly encouraged to complete an independent research project. All graduate students must enroll in a graduate research course.
- All faculty serve as advisors to students and have a strong commitment to helping students find jobs or gain admission to graduate programs or professional schools.
- Our department environment is very similar to a small college liberal arts experience.

**Career Possibilities**
Students in our program learn both fundamental theory and practical application in all areas of chemistry (inorganic, analytical, organic, physical, biochemical) and they gain substantial experience operating highly sophisticated instrumentation. This prepares students for a wide variety of careers. Examples include: environmental chemistry, toxicology, materials science, government and industry laboratories, biotechnology, agricultural technology, high school science teaching, medicine, dentistry, optometry and other related health sciences, pharmacy and pharmacology, patent law, computational chemistry, forensic analysis, sales representative for instrument, chemical and pharmaceutical companies, art restoration and more.

**Contact Information**
Susan Crawford, Department Chair  
Kater Shea, Administrative Support Coordinator  
Sequoia Hall 506  
(916) 278-6684  
Department of Chemistry Website (http://www.csus.edu/chem/)

**Faculty**
BAUER, JOHANNES  
CRAWFORD, SUSAN M.  
DIXON, ROY W.
CHEM 1E. General Chemistry for Engineering. 4 Units
Prerequisite(s): High school chemistry; Math 30 or eligibility to take MATH 30 as evidenced by the calculus readiness diagnostic exam; passing score on a standardized Chemistry diagnostic exam given prior to each semester, or minimum grade of "C" in CHEM 4
Term Typically Offered: Fall, Spring, Summer
A one-semester chemistry course for engineering students covering the fundamental principles and concepts of chemistry important to engineering applications. Lecture topics include atomic and molecular structure, solution chemistry, equilibrium, oxidation-reduction, thermodynamics, intermolecular forces; electrochemistry; radiochemistry; polymers; metallic bonding and alloys; chemical diffusion and kinetics. Lecture three hours, Lab three hours.
Note: Enrollment in this course is restricted to engineering majors.

CHEM 1A. Introduction to General Chemistry. 5 Units
Prerequisite(s): One year high school algebra; high school chemistry recommended.
Term Typically Offered: Fall, Spring
Chemistry 1A emphasizes chemical nomenclature and techniques of chemical problem solving. Topics covered include: dimensional analysis; conversions between measuring units; weight, mole and chemical equations; density; elementary gas laws; heat and temperature; elementary acid and base chemistry; oxidation and reduction; solutions. Three hours lecture.

CHEM 20. Organic Chemistry Lecture--Brief Course. 3 Units
Prerequisite(s): CHEM 1B.
Term Typically Offered: Fall, Spring, Summer
Basic principles of organic chemistry. Recommended for students majoring in life-sciences, but not recommended for preprofessional students.

CHEM 20L. Introductory Organic Chemistry Laboratory. 1 Unit
Prerequisite(s): CHEM 20; CHEM 20 may be taken concurrently.
Term Typically Offered: Fall, Spring
Basic organic experimental techniques. Experimental topics include: melting points, purification of solids, distillation, chromatography, extraction, and functional group qualitative analysis. Specifically designed for Biological Sciences majors and others who want to meet the Chemistry minor requirements for a lower division organic laboratory. Laboratory three hours.

CHEM 24. Organic Chemistry Lecture I. 3 Units
Prerequisite(s): CHEM 1B.
Term Typically Offered: Fall, Spring, Summer
Introduction to the basic principals of organic chemistry, including nomenclature, properties and reactions of various classes of organic compounds. Reaction mechanisms will be emphasized.
Note: Required for chemistry majors and recommended for preprofessional students.

CHEM 31. Quantitative Analysis. 4 Units
Prerequisite(s): CHEM 1B.
Term Typically Offered: Fall, Spring
Chemical measurements including associated statistics, chemical equilibrium in aqueous solutions, volumetric analysis, and an introduction to spectrophotometry and chromatography. Lecture two hours, laboratory six hours.

CHEM 58. An Introduction to Undergraduate Research. 1 - 3 Units
Term Typically Offered: Fall, Spring
Introduction to undergraduate research which requires students to become familiar lab safety policies, SDSs, and SOPs in the research lab (if applicable), attend group meetings (if applicable) and learn methods of experimental, educational and/or computational design. Students must show proficiency in these requirements in order to receive a final grade.
Credit/No Credit
CHEM 101. Science in the Public Debate. 3 Units
Prerequisite(s): ENGL 20
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

This course provides students with an introduction to the history, philosophy and practice of modern science, and examines how the social environment influences scientific analysis. Students apply this understanding to the critical evaluation of scientific sources in current social debates surrounding scientific topics.

Note: Does not fulfill credit requirements for the major or minor in chemistry.

CHEM 106. Chemical Concepts. 3 Units
Prerequisite(s): GEOL 8 or BIO 7 and ENGL 20 or an equivalent second semester composition course. Fee course.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Principles and concepts of chemistry with applications in the home and environment. Satisfies the upper division chemistry requirement for the multiple-subject teaching credential. Lecture one hour; discussion and activity four hours. Does not fulfill credit requirements for the major or minor in chemistry. Fee course.

CHEM 110. Inorganic Chemistry Lecture. 3 Units
Prerequisite(s): CHEM 125, CHEM 140B or CHEM 142 instructor permission; CHEM 140B may be taken concurrently, however, students are encouraged to complete CHEM 140B and CHEM 141 first.
Corequisite(s): CHEM 110L.
Term Typically Offered: Fall only

Application of atomic structure, the periodic law, molecular structure and bonding principles, electrochemical principles and other selected models and concepts to theoretical and descriptive inorganic chemistry. Physical and chemical properties of selected elements and inorganic compounds are studied.

CHEM 110L. Advanced Inorganic Chemistry Laboratory. 2 Units
Prerequisite(s): CHEM 125, ENGL 20 or an equivalent second semester composition course.
Corequisite(s): CHEM 110.
Term Typically Offered: Fall only

Preparation, purification and instrumental studies of inorganic compounds. Instrumental and experimental techniques will include EPR, magnetic susceptibility, FTIR, UV-VIS spectroscopy and inert atmosphere techniques.

CHEM 124. Organic Chemistry Lecture II. 3 Units
Prerequisite(s): CHEM 24 or instructor permission; concurrent enrollment in CHEM 25 recommended.
Term Typically Offered: Fall, Spring, Summer

Continued discussion of the principals of organic chemistry, including nomenclature, properties, and reactions of various classes of organic compounds and spectroscopic analysis. Reaction mechanisms will be emphasized.

CHEM 125. Advanced Organic Chemistry Laboratory. 3 Units
Prerequisite(s): CHEM 25, CHEM 124, ENGL 20 or an equivalent second semester composition course.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Focuses on advanced organic laboratory techniques and instrumental methods of analysis. Not intended for pre-health professional majors. Discussion one hour, laboratory six hours.

CHEM 126. Physical Organic Chemistry. 3 Units
Prerequisite(s): CHEM 124, and CHEM 140B or CHEM 142, or instructor permission.
Corequisite(s): CHEM 140B or CHEM 142 may be taken concurrently.
Term Typically Offered: Fall, Spring

Study of mechanistic organic chemistry, the physical tools used to study reaction mechanisms, and the relationship between structure and reactivity. Topics include bonding theories, stereoelectronic effects, transition state theory, thermodynamics, kinetic analysis, isotope effects, linear free energy relationships, and application of frontier molecular orbital theory to examine reactions including pericyclic reactions.

Note: Students who have taken CHEM 126 at Sacramento State cannot take CHEM 226 for credit.

CHEM 128. Organic Synthesis. 3 Units
Prerequisite(s): CHEM 124.
Term Typically Offered: Spring only

Application of functional group reactions to multistep syntheses. Recently developed synthetic methods and literature searching will be emphasized.

CHEM 133. Chemical Instrumentation. 4 Units
Prerequisite(s): CHEM 31, concurrent enrollment in CHEM 140B or completion of CHEM 142: ENGL 20 or an equivalent second semester composition course. Graded: Graded Student. Units: 4.0
Term Typically Offered: Fall, Spring

Modern instrumentation and methods for chemical analysis. Function of electronics and computers in instruments. Theory and use of instruments in the areas of electrochemistry, spectroscopy, mass spectrometry and chromatography. Lecture two hours, laboratory six hours.

CHEM 140A. Physical Chemistry Lecture I. 3 Units
Prerequisite(s): CHEM 1B, CHEM 24, CHEM 31, MATH 32, PHYS 5A, PHYS 5B, or PHYS 11A, PHYS 11B, PHYS 11C; PHYS 11B may be taken concurrently.
Term Typically Offered: Fall only

Introduction to chemical thermodynamics and kinetics.

CHEM 140B. Physical Chemistry Lecture II. 3 Units
Prerequisite(s): CHEM 140A.
Term Typically Offered: Spring only

Introduction to molecular quantum chemistry, structure of matter, molecular spectroscopy, and statistical thermodynamics.
CHEM 141. **Physical Chemistry Laboratory.** 3 Units
**Prerequisite(s):** ENGL 20 or an equivalent second semester composition course; CHEM 140A, CHEM 140B or CHEM 142, instructor permission; CHEM 140B may be taken concurrently.
**Term Typically Offered:** Fall, Spring

Selected exercises in the practice of physio-chemical laboratory methods. Lecture one hour; laboratory six hours.

CHEM 142. **Introduction to Physical Chemistry.** 4 Units
**Prerequisite(s):** CHEM 1B, CHEM 24, PHYS 5A, PHYS 5B, MATH 31.
**Term Typically Offered:** Fall, Spring

Introductory presentation of the theoretical and practical aspects of thermodynamics, quantum chemistry, spectroscopy, and kinetics. As time permits, other topics will be: solution chemistry, hydrodynamics, electrochemistry, and crystallography.
**Note:** Not acceptable for the BS or the BA without concentration.

CHEM 145. **Applications of Computational Chemistry.** 3 Units
**Prerequisite(s):** CHEM 140A and CHEM 140B or CHEM 142, or instructor permission.
**Term Typically Offered:** Fall only – odd years

Brief introduction/background in computational theory, with emphasis on chemical/biochemical applications. Demonstration/instruction of widely used modeling/computational software. Covering techniques including molecular mechanics, semi-empirical methods and "ab initio" methods. Application of computational methods to thermodynamics, kinetics, spectra, electrochemistry, molecular properties. Lecture three hours.
**Note:** 1) CHEM 245 students will complete an additional research project beyond that expected of students in CHEM 145; 2) Students who have taken CHEM 145 at Sacramento State cannot take CHEM 245 for credit.

CHEM 160A. **Structure and Function of Biological Molecules.** 3 Units
**Prerequisite(s):** CHEM 124; MATH 26A or MATH 30 is recommended. Fall only.
**Term Typically Offered:** Fall only

The chemistry and biochemistry of amino acids, proteins, nucleic acids, lipids and carbohydrates. Also includes enzyme kinetics, the structure and function of biological membranes and discussion of some common laboratory methods. Lecture three hours.

CHEM 160B. **Metabolism and Regulation of Biological Systems.** 3 Units
**Prerequisite(s):** CHEM 160A or equivalent course; one year of organic chemistry. Spring only.
**Term Typically Offered:** Spring only

The bioenergetics and regulation of anaerobic and aerobic metabolic pathways. Major topics include glycolysis, Kreb's cycle, fatty acid and amino acid oxidation, lipid biosynthesis and photosynthesis. Particular emphasis is given to pathway regulation and integration. Lecture three hours.

CHEM 161. **General Biochemistry.** 3 Units
**Prerequisite(s):** CHEM 20 or CHEM 124; one year of biological science is recommended.
**Term Typically Offered:** Fall, Spring, Summer

Introduction to the structure and function of biological molecules (carbohydrates, lipids, proteins, nucleic acids, enzymes and hormones), enzyme kinetics, the structure and function of membranes, and the bioenergetics and regulation of major anaerobic and aerobic metabolic pathways.

CHEM 162. **General Biochemistry Laboratory.** 3 Units
**Prerequisite(s):** CHEM 31; CHEM 160A or CHEM 161 (either CHEM 160A or CHEM 161 may be taken concurrently); ENGL 20 or an equivalent second semester composition course.
**Term Typically Offered:** Fall, Spring

Introduction to fundamental laboratory techniques for the purification and analysis of biological molecules, including chromatographic separation of amino acids and proteins, electrophoretic separation of proteins and nucleic acids, enzyme kinetics, and basic bioinformatics. Discussion one hour, laboratory six hours.

CHEM 164. **Advanced Biochemistry Laboratory.** 3 Units
**Prerequisite(s):** CHEM 162 or equivalent; ENGL 20 or an equivalent second semester composition course.
**Term Typically Offered:** Fall, Spring

Capstone course which emphasizes biochemical laboratory experimental design and trouble-shooting skills. Common biochemistry laboratory techniques are applied in semester-long individual student projects. Discussion one hour, laboratory six hours.

CHEM 189A. **Undergraduate Research.** 1 - 3 Units
**Prerequisite(s):** ENGL 20 or equivalent
**Term Typically Offered:** Fall, Spring

Directed undergraduate research involving a project that requires use of chemical literature and experimental design. A comprehensive written report and/or scientific poster must be submitted to receive a final grade.
**Note:** Only three units of CHEM 189A-C may be applied toward the major requirement in chemistry for the BA or BS degrees.

CHEM 189B. **Intermediate Undergraduate Research.** 1 - 3 Units
**Prerequisite(s):** ENGL 20 or equivalent and CHEM 189A
**Term Typically Offered:** Fall, Spring

Continuing directed undergraduate research involving a project with emphasis on experimentation and data analysis. A comprehensive written report and/or scientific poster must be submitted to receive a final grade.
**Note:** Only three units of CHEM 189A-C may be applied toward the major requirement in chemistry for the BA or BS degrees.

CHEM 189C. **Advanced Undergraduate Research.** 1 - 3 Units
**Prerequisite(s):** ENGL 20 and CHEM 189B
**Term Typically Offered:** Fall, Spring

Culminating directed undergraduate research with emphasis on comprehensive data analysis and formulation of conclusions. A comprehensive written report and/or scientific poster must be submitted to receive a final grade.
**Note:** Only three units of CHEM 189A-C may be applied toward the major requirement in chemistry for the BA or BS degrees.
CHEM 189D. Culminating Advanced Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 and CHEM 189C
Term Typically Offered: Fall, Spring

Extension of culminating undergraduate research with emphasis on finalizing data analysis and writing experimental methods for potential publication. A comprehensive written report (if a scientific poster was completed in 189C) and/or scientific poster (if a written report was completed in 189C) must be submitted to receive a final grade.

Credit/No Credit

CHEM 194. Chemistry-Related Work Experience. 6 - 12 Units
Prerequisite(s): Open only to upper division students and consent of Department Chair. Units may not be applied toward a major in Chemistry or Biochemistry.
Term Typically Offered: Fall, Spring

Supervised employment in a Chemistry related company or agency. Placement is arranged through the Department and the Cooperative Education Program office. Requires completion of a 3-6 month work assignment and a written report.

Credit/No Credit

CHEM 196B. Biochemistry of SARS-CoV-2. 3 Units
Prerequisite(s): CHEM 161 or CHEM 160A
Term Typically Offered: Spring only

This course will survey of the macromolecules of the coronavirus SARS-CoV-2, explore their function in relation to the viral life cycle, and examine the biochemistry of established and emerging Covid-19 therapeutics and vaccines. Learning activities will involve a significant amount of primary literature analysis, bioinformatics exercises and brief lectures.

CHEM 198. Senior Research. 3 Units
Prerequisite(s): One upper division chemistry laboratory class, ENGL 20 or an equivalent second semester composition course and instructor and department chair permission.
Term Typically Offered: Fall, Spring

The student will conduct an independent study of a chemical research topic that is based on experimental techniques or advanced computer modeling. Significant use of chemical literature and information retrieval is required. A well-written, comprehensive, and well-documented final report must be submitted to receive a final grade. A weekly seminar is required. Seminar one hour, laboratory activities are a minimum of six hours per week.

CHEM 198H. Chemistry Honors Thesis. 3 Units
Prerequisite(s): Open only to students who meet the Chemistry Honors Program criteria; CHEM 198 may be taken concurrently.
Term Typically Offered: Spring only

Completion of an undergraduate honors thesis and attendance at chemistry seminars. Students will develop a written thesis containing background, methodology, results, and discussion of an experimental or computational research project involving their own original data.

CHEM 200. Research Methods in Chemistry. 3 Units
Prerequisite(s): Must be a Chemistry graduate student or have instructor permission
Term Typically Offered: Fall, Spring

This course is designed to improve the ability of graduate students to research and interpret the chemical literature. Students work through a series of exercises in preparation for a major writing project such as a thesis proposal or a thesis chapter/section. Exercises include analysis of primary research articles, peer review of student writing samples, and presentation of scientific information. These activities will improve students' understanding of how scientific questions are developed and posed through proposals and dissemination of research results.

CHEM 220. Spectrometric Identification of Compounds. 3 Units
Term Typically Offered: Fall only

Theory, interpretation, and application of ultraviolet, infrared, nuclear magnetic resonance and mass spectra for the elucidation of organic compounds.

CHEM 226. Physical Organic Chemistry. 3 Units
Prerequisite(s): Enrollment in Chemistry master's degree program or instructor permission
Term Typically Offered: Fall, Spring

Study of mechanistic organic chemistry, the physical tools used to study reaction mechanisms, and the relationship between structure and reactivity. Topics include bonding theories, stereoelectronic effects, transition state theory, thermodynamics, kinetic analysis, isotope effects, linear free energy relationships, and application of frontier molecular orbital theory to examine reactions including pericyclic reactions.

Note: Students who have taken CHEM 126 at Sacramento State cannot take CHEM 226 for credit.

CHEM 230. Separation Methods in Chemistry. 3 Units
Term Typically Offered: Fall

Theoretical and practical aspects of separation sciences. Methods of separations that are included are liquid-liquid extraction and ion exchange, gas, and liquid chromatography. Lecture three hours.

CHEM 245. Applications of Computational Chemistry. 3 Units
Term Typically Offered: Fall only – odd years

Brief introduction/background in computational theory, with emphasis on chemical/biochemical applications. Demonstration/instruction of widely used modeling/instruction of software. Covering techniques including molecular mechanics, semi-imperical methods and "ab initio" methods. Application of computational methods to thermodynamics, kinetics, spectra, electrochemistry, molecular properties. Lecture three hours.

Note: 1) CHEM 245 students will complete an additional research project beyond that expected of students in CHEM 145; 2) Students who have taken CHEM 145 at Sacramento State cannot take CHEM 245 for credit.
CHEM 250. Selected Topics in Chemistry. 3 Units
Prerequisite(s): Enrollment in MS Chemistry graduate program or instructor permission.
Term Typically Offered: Fall, Spring

Intensive coverage of one or more advanced topics in chemistry. A variety of learning/teaching methodologies may be employed including lecture, team projects, computer modeling, oral presentations and poster projects. May be team-taught.

Note: May be team-taught. May be repeated once for credit if topics are different.

CHEM 251. Topics in Interdisciplinary Chemistry. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Lecture course focusing on interdisciplinary topics in chemistry and related fields. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 252. Topics in Synthetic Chemistry. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Lecture course focusing on synthetic chemistry. Focus may be on biochemical, inorganic, or organic synthetic chemistry. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 253. Topics in Applied Chemistry. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Lecture course focusing on applications of chemistry to a variety of fields. Areas of focus my include biological, environmental, materials, and pharmaceutical applications. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 254. Topics in Physical Chemistry. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Lecture course focusing on topics in physical chemistry. Areas of focus may include content areas such as quantum mechanics, physical/organic or biophysical chemistry, an/or in-depth treatment of structure analysis and determination. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 255. Topics in Chemistry Education. 3 Units
Prerequisite(s): enrollment in Chemistry master’s degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Intensive coverage of one or more advanced topics in chemistry. A variety of learning/teaching methodologies may be employed, including lecture, team projects, computer modeling, oral presentations and poster projects. May be team-taught.

CHEM 260. Protein Biochemistry. 3 Units
Prerequisite(s): One semester of biochemistry.
Term Typically Offered: Fall, Spring

Provides a comprehensive review of proteins, with emphasis on protein structure and function relationships. Topics include methods for structure determination, stability and folding, catalysis and denovo protein design. Topical examples from the literature, particularly those related to disease states, are used to illustrate fundamental principles of protein structure and function.

CHEM 261. Nucleic Acid Chemistry. 3 Units
Prerequisite(s): Undergraduate course in biochemistry.
Term Typically Offered: Fall, Spring

The recent biochemical literature will be used to study the structural, chemical, and physical properties of nucleic acids. Chemical mechanisms of mutation, protein-nucleic acid interactions, and DNA-drug interactions will be used to illustrate these properties.

CHEM 294. Seminar in Chemistry. 0.5 Units
Term Typically Offered: Fall, Spring

Student presentations of topics from the chemical literature; presentations of current chemistry topics from speakers in academia, industry, and government positions. May be repeated for a total of 2 units.

Note: Grade of C/NC will be based on attendance and successful presentation of a seminar.

Credit/No Credit

CHEM 296. Experimental Offerings in Chemistry. 1 Unit
Prerequisite(s): Instructor approval.
Term Typically Offered: Fall, Spring

Presentation and discussion of graduate student and faculty research and current literature with emphasis on critical evaluation of research design, data analysis and presentation techniques. One hour discussion.

Note: May be taken up to four times for credit, but only one unit may be applied to the University’s requirement for 200-level courses.

Credit/No Credit

CHEM 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Graduate research. Approval must be obtained from a departmental committee and the faculty member under whom the work is to be conducted. Written report must be submitted before a final grade is given.

Credit/No Credit

CHEM 500. Culminating Experience. 2 - 4 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree. Should be taken in final semester prior to the completion of all requirements for the degree. Number of units of credit is determined by the candidate's master's degree advisory committee.

Contact Lenses

For department policies, including safety policies, please visit our webpage www.csus.edu/chem (http://www.csus.edu/chem/).
BA in Chemistry (Biochemistry)

Units required for Major: 64-77
Total units required for BA: 120

Program Description

Three BA programs are available: One without a concentration (general) and two with concentrations (Biochemistry or Forensic Chemistry). The common requirements of the three programs are shown below under "Core Requirements."

Safety

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (https://www.csus.edu/college/natural-sciences-mathematics/internal/safety/). Failure to adhere to the Safety Policies may constitute grounds for withdrawal from a course and/or dismissal from the program.

Advising

The Department believes advising of students is an important function. Members of the Chemistry Department who have a strong interest in advising have been selected to serve as advisors for students wishing to major in chemistry. Each represents a particular area of chemistry: analytical, inorganic, biochemistry, organic, and physical. Each Chemistry major will be assigned to one of these advisors when entering the Chemistry Department, coordinated to the area of each student’s expressed interest.

Prerequisite Requirements

When enrolling in a course, it is required that the student will have met the specific prerequisites listed. A course listed as a prerequisite may have its own set of prerequisites. All must be met prior to enrolling in a chemistry course. Students not meeting the prerequisite requirements for a course will be administratively removed from the class.

Minimum Grade Requirements

In all courses required for the Chemistry major and minor, a minimum grade of "C" must be earned with the exception of CHEM 1A which requires a grade of C or higher. A minimum grade of "C" is required in all prerequisite courses with the exception of CHEM 1A which requires a grade of C or better to meet the prerequisite requirement for CHEM 1B if a student has not achieved a "C" in all prerequisite courses for a particular chemistry course, the instructor of the course will administratively remove the student from class.

Transfer Majors and Minors

Transfer students majoring in Chemistry must complete at least three of the required courses in chemistry while fulfilling the residence requirements of California State University, Sacramento. Transfer students seeking a minor in Chemistry must complete at least one upper division chemistry course at the University.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 24</td>
<td>Organic Chemistry Lecture I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 25</td>
<td>Organic Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 31</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 124</td>
<td>Organic Chemistry Lecture II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>Select one of the following sequences:</td>
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<tr>
<td></td>
<td></td>
<td>12</td>
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<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 5B</td>
<td>General Physics: Light, Electricity and Magnetism, Modern Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 11C</td>
<td>Physics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Physics: Electricity and Magnetism</td>
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</tr>
</tbody>
</table>

Total Units: 39-43

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 Passing a placement exam or obtaining a passing grade of “C” or better in CHEM 4 is required to enroll in CHEM 1A.

Concentration in Biochemistry (32-34 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology ¹</td>
<td>5</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>5</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>4 -</td>
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<tr>
<td></td>
<td></td>
<td>6</td>
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<tr>
<td>CHEM 140A &amp; CHEM 140B</td>
<td>Physical Chemistry Lecture I &amp; Physical Chemistry Lecture II</td>
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</tr>
<tr>
<td>CHEM 142</td>
<td>Introduction to Physical Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 160A</td>
<td>Structure and Function of Biological Molecules</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 160B</td>
<td>Metabolism and Regulation of Biological Systems</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 162</td>
<td>General Biochemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 164</td>
<td>Advanced Biochemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 units of Electives in Biological Sciences (must be from the following courses):</td>
<td>6</td>
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</tr>
<tr>
<td>BIO 121</td>
<td>Molecular Cell Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
<td></td>
</tr>
<tr>
<td>BIO 139</td>
<td>General Microbiology</td>
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<tr>
<td>BIO 180</td>
<td>Advanced Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 184</td>
<td>General Genetics</td>
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</tr>
</tbody>
</table>

Total Units: 32-34

1 Course also satisfies General Education (GE)/Graduation Requirement.

Note: Students may also complete a BA with a concentration in Biochemistry by taking the general BA curriculum and completing the following additional courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>5</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 160A</td>
<td>Structure and Function of Biological Molecules</td>
<td>3</td>
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</tbody>
</table>
Graduation Requirements (required by Sacramento State) (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Foreign Language Proficiency Requirement 2</td>
<td>6</td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-leters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-leters/world-languages-literatures/foreign-language-requirement.html)

BA in Chemistry (Forensic Chemistry)

Units required for Major: 64-77
Total units required for BA: 120

Program Description

Three BA programs are available: One without a concentration (general) and two with concentrations (Biochemistry or Forensic Chemistry). The common requirements of the three programs are shown below under "Core Requirements."

Safety

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (https://www.csus.edu/college/natural-sciences-mathematics/internal/safety/). Failure to adhere to the Safety Policies may constitute grounds for withdrawal from a course and/or dismissal from the program.

Advising

The Department believes advising of students is an important function. Members of the Chemistry Department who have a strong interest in advising have been selected to serve as advisors for students wishing to major in chemistry. Each represents a particular area of chemistry: analytical, inorganic, biochemistry, organic, and physical. Each Chemistry major will be assigned to one of these advisors when entering the Chemistry Department, coordinated to the area of each student’s expressed interest.

Prerequisite Requirements

When enrolling in a course, it is required that the student have met the specific prerequisites listed. A course listed as a prerequisite may have its own set of prerequisites. All must be met prior to enrolling in a chemistry course. Students not meeting the prerequisite requirements for a course will be administratively removed from the class.
Minimum Grade Requirements

In all courses required for the Chemistry major and minor, a minimum grade of "C-" must be earned with the exception of CHEM 1A which requires a grade of C or better. A minimum grade of "C-" is required in all prerequisite courses with the exception of CHEM 1A which requires a grade of C or better to meet the prerequisite requirement for CHEM 1B if a student has not achieved a "C-" in all prerequisite courses for a particular chemistry course, the instructor of the course will administratively remove the student from class.

Transfer Majors and Minors

Transfer students majoring in Chemistry must complete at least three of the required courses in chemistry while fulfilling the residence requirements of California State University, Sacramento. Transfer students seeking a minor in Chemistry must complete at least one upper division chemistry course at the University.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I(^1),(^2)</td>
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<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
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</tr>
<tr>
<td>CHEM 24</td>
<td>Organic Chemistry Lecture I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 25</td>
<td>Organic Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 31</td>
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<tr>
<td>CHEM 124</td>
<td>Organic Chemistry Lecture II</td>
<td>3</td>
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<tr>
<td>MATH 30</td>
<td>Calculus I(^1)</td>
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<tr>
<td>MATH 31</td>
<td>Calculus II</td>
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Select one of the following sequences:

<table>
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<tr>
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<th>Units</th>
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<tbody>
<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
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<tr>
<td>PHYS 5B</td>
<td>General Physics: Light, Electricity and Magnetism, Modern Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td></td>
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<tr>
<td>PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
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</tr>
<tr>
<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism</td>
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</table>

Total Units 39-43

1 Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in Forensic Chemistry (25-28 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>CHEM 125</td>
<td>Advanced Organic Chemistry Laboratory</td>
<td>3</td>
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<tr>
<td>CHEM 142</td>
<td>Introduction to Physical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 161</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 162</td>
<td>General Biochemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 1</td>
<td>Introduction to Criminal Justice and Society(^1)</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 154</td>
<td>Introduction to Physical Evidence</td>
<td>3</td>
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Select a minimum of 6 units from the following:

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<th>Title</th>
<th>Units</th>
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<tr>
<td>CHEM 110</td>
<td>Inorganic Chemistry Lecture</td>
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<td>&amp; 110L</td>
<td>Advanced Inorganic Chemistry Laboratory</td>
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General Education Requirements

<table>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>A1</td>
<td>Oral Communication</td>
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<tr>
<td>A2</td>
<td>Written Communication</td>
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</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
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<tr>
<td>B1/B2</td>
<td>Physical Science(^2)</td>
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<tr>
<td>B3/B5</td>
<td>Life Forms</td>
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<tr>
<td>B4</td>
<td>Math Concepts</td>
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<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units)</td>
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</table>

Area A: Basic Subjects (9 Units)

Area B: Physical Universe and Its Life Forms (6 Units)

Area C: Arts and Humanities (12 Units)

Area D: The Individual and Society (6 Units)

Area E: Understanding Personal Development (3 Units)

Area P: Ethnic Studies (3 Units)

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>A3</td>
<td>Oral Communication</td>
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<td>A2</td>
<td>Written Communication</td>
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<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1/B2</td>
<td>Physical Science(^2)</td>
<td>0</td>
</tr>
<tr>
<td>B3/B5</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units)</td>
<td>3</td>
</tr>
</tbody>
</table>

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

1 Course also satisfies General Education (GE)/Graduation Requirement.

2 Required in Major; also satisfies GE.
Minimum Grade Requirements
In all courses required for the Chemistry major and minor, a minimum grade of "C-" must be earned with the exception of CHEM 1A which requires a grade of C or better. A minimum grade of "C-" is required in all prerequisite courses with the exception of CHEM 1A which requires a grade of C or better to meet the prerequisite requirement for CHEM 1B if a student has not achieved a "C-" in all prerequisite courses for a particular chemistry course, the instructor of the course will administratively remove the student from class.

Transfer Majors and Minors
Transfer students majoring in Chemistry must complete at least three of the required courses in chemistry while fulfilling the residence requirements of California State University, Sacramento. Transfer students seeking a minor in Chemistry must complete at least one upper division chemistry course at the University.

Program Requirements

Code | Title |
-----|-------|
CHEM 1A | General Chemistry I 1,2 |
CHEM 1B | General Chemistry II |
CHEM 24 | Organic Chemistry Lecture I |
CHEM 25 | Organic Chemistry Laboratory |
CHEM 31 | Quantitative Analysis |
CHEM 124 | Organic Chemistry Lecture II |
MATH 30 | Calculus I 1 |
MATH 31 | Calculus II |

Select one of the following sequences:

PHYS 5A & PHYS 5B | General Physics: Mechanics, Heat, Sound 
PHYS 5A & PHYS 5B | General Physics: Light, Electricity and Magnetism, Modern Physics |
PHYS 11A & PHYS 11B | General Physics: Heat, Light, Sound, Modern Physics |
PHYS 11A & PHYS 11C | Physics |

Total Units: 39-43

1. Course satisfies General Education (GE)/Graduation Requirement.
2. Passing a placement exam or obtaining a passing grade of "C" or better in CHEM 4 is required to enroll in CHEM 1A.

No Concentration (25 Units)

Code | Title |
-----|-------|
CHEM 140A | Physical Chemistry Lecture I |
CHEM 140B | Physical Chemistry Lecture II |
MATH 32 | Calculus III |

Select additional courses to a minimum of 24 upper division units in Chemistry. Must include two laboratory courses. Graduate courses may be used as elective courses with instructor and department Chair permission. Elective courses should be selected in consultation with an advisor.

Total Units: 25
General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
</table>

**Area A: Basic Subjects (9 Units)**
- A1 - Oral Communication 3
- A2 - Written Communication 3
- A3 - Critical Thinking 3

**Area B: Physical Universe and Its Life Forms (6 Units)**
- B1 - Physical Science 0
- B2 - Life Forms 3
- B3 - Lab (Note: Lab experience to be taken with one of the following): 0
  - B1, B2 or B5 2
- B4 - Math Concepts 0
- B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. 3

**Area C: Arts and Humanities (12 Units)**
- C1 - Arts 3
- C2 - Humanities 3
- C1/C2 - Area C Course 3
- C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. 3

**Area D: The Individual and Society (9 Units)**
- Area D Course 3
- Area D Course - Take upper-division course to complete Area & upper division requirements. 3

**Area E: Understanding Personal Development (3 Units)**
- Area E Course 3

**Area F: Ethnic Studies (3 Units)**
- Area F Course 3

**Total Units** 42

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2 Required in Major; also satisfies GE.

BS in Biochemistry

Units required for Major: 81-85
Total units required for BS: 120

Program Description

The Bachelor of Science degrees are recommended for students intending to pursue graduate work in Chemistry or Biochemistry or those desiring a strong technical background for work in the chemical or biotechnology industry or other highly technical areas.

Safety

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (https://www.csus.edu/college/natural-sciences-mathematics/internal/safety/). Failure to adhere to the Safety Policies may constitute grounds for withdrawal from a course and/or dismissal from the program.

Advising

The Department believes advising of students is an important function. Members of the Chemistry Department who have a strong interest in advising have been selected to serve as advisors for students wishing to major in chemistry. Each represents a particular area of chemistry: analytical, inorganic, biochemistry, organic, and physical. Each Chemistry major will be assigned to one of these advisors when entering the Chemistry Department, coordinated to the area of each student’s expressed interest.

Prerequisite Requirements

When enrolling in a course, it is required that the student will have met the specific prerequisites listed. A course listed as a prerequisite may have its own set of prerequisites. All must be met prior to enrolling in a chemistry course. Students not meeting the prerequisite requirements for a course will be administratively removed from the class.

Minimum Grade Requirements

In all courses required for the Chemistry major and minor, a minimum grade of "C-" must be earned with the exception of CHEM 1A which requires a grade of C or better. A minimum grade of "C-" is required in all prerequisite courses with the exception of CHEM 1A which requires a grade of C or better to meet the prerequisite requirement for CHEM 1B if a student has not achieved a "C-" in all prerequisite courses for a particular
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**Note:** Students graduating with a Bachelor of Science Degree in Biochemistry will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td><strong>Required Lower Division Courses (46-50 Units)</strong></td>
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<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
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<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>5</td>
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<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 24</td>
<td>Organic Chemistry Lecture I</td>
<td>3</td>
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<tr>
<td>CHEM 25</td>
<td>Organic Chemistry Laboratory</td>
<td>3</td>
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<tr>
<td>CHEM 31</td>
<td>Quantitative Analysis</td>
<td>4</td>
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<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>MATH 31</td>
<td>Calculus II</td>
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<td>8 - 12</td>
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<tr>
<td>PHYS 5A &amp; PHYS 5B</td>
<td>General Physics: Mechanics, Heat, Sound General Physics: Light, Electricity and Magnetism, Modern Physics</td>
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<td>BIO 184</td>
<td>General Genetics</td>
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<td>CHEM 124</td>
<td>Organic Chemistry Lecture II</td>
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<td>CHEM 125</td>
<td>Advanced Organic Chemistry Laboratory</td>
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<td>CHEM 141</td>
<td>Physical Chemistry Laboratory</td>
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<tr>
<td>CHEM 142</td>
<td>Introduction to Physical Chemistry</td>
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<tr>
<td>CHEM 160A</td>
<td>Structure and Function of Biological Molecules</td>
<td>3</td>
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<tr>
<td>CHEM 160B</td>
<td>Metabolism and Regulation of Biological Systems</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 162</td>
<td>General Biochemistry Laboratory</td>
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<td>CHEM 164</td>
<td>Advanced Biochemistry Laboratory</td>
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<tr>
<td><strong>Upper Division Elective Courses (6 Units)</strong></td>
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<tr>
<td>Select 3 units of Chemistry from approved list:</td>
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<tr>
<td>CHEM 110</td>
<td>Inorganic Chemistry Lecture</td>
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<td>CHEM 126</td>
<td>Physical Organic Chemistry</td>
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<td>CHEM 128</td>
<td>Organic Synthesis</td>
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<tr>
<td>CHEM 133</td>
<td>Chemical Instrumentation</td>
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<tr>
<td>CHEM 145</td>
<td>Applications of Computational Chemistry</td>
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<tr>
<td>CHEM 198</td>
<td>Senior Research</td>
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<td>CHEM 250</td>
<td>Selected Topics in Chemistry</td>
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<table>
<thead>
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<tr>
<td>CHEM 260</td>
<td>Protein Biochemistry</td>
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<td>CHEM 261</td>
<td>Nucleic Acid Chemistry</td>
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<tr>
<td>Select 3 units of Biological Sciences from approved list:</td>
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<tr>
<td>BIO 121</td>
<td>Molecular Cell Biology</td>
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<td>BIO 139</td>
<td>General Microbiology</td>
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<td>BIO 144</td>
<td>Pathogenic Bacteriology</td>
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<tr>
<td>BIO 149A</td>
<td>Immunology</td>
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<tr>
<td>BIO 149B</td>
<td>Immunology and Serology Laboratory</td>
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<tr>
<td>BIO 180</td>
<td>Advanced Molecular Biology</td>
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<td>BIO 220</td>
<td>Introduction to Scientific Inquiry</td>
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<tr>
<td>BIO 222</td>
<td>Molecular Biology</td>
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</table>

**Total Units:** 81-85

### General Education Requirements

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<tr>
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<th>Title</th>
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<tr>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
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<tr>
<td>A1 - Oral Communication</td>
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<td>3</td>
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<td>A2 - Written Communication</td>
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<tr>
<td>A3 - Critical Thinking</td>
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<tr>
<td><strong>Area B: Physical Universe and Its Life Forms (3 Units)</strong></td>
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<tr>
<td>B1 - Physical Science</td>
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<td>0</td>
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<tr>
<td>B2 - Life Forms</td>
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<td>0</td>
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<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td></td>
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<tr>
<td>B4 - Math Concepts</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td><strong>Area C: Arts and Humanities (12 Units)</strong></td>
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<tr>
<td>C1 - Arts</td>
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<tr>
<td>C2 - Humanities</td>
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<tr>
<td>C1/C2 - Area C Course</td>
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<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
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<td>Area D Course</td>
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<td><strong>Area E: Understanding Personal Development (3 Units)</strong></td>
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<td>Area E Course</td>
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<td><strong>Area F: Ethnic Studies (3 Units)</strong></td>
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</table>

**Total Units:** 39
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2 Required in Major; also satisfies GE.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
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<td></td>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
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<td>American Institutions: U.S. History</td>
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<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
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<tr>
<td></td>
<td>Writing Intensive (WI)</td>
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<tr>
<td></td>
<td>Graduation Requirements (required by Sacramento State) (6 Units)</td>
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<td></td>
<td>English Composition II</td>
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<td>Race and Ethnicity in American Society (RE)</td>
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<tr>
<td></td>
<td>Foreign Language Proficiency Requirement</td>
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</tbody>
</table>

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2 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."
The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Note: Students with a declared major of BS in Biochemistry are exempt from the Foreign Language Graduation Requirement.

BS in Chemistry

Units required for Major: 77
Total units required for BS: 120

Program Description

The Bachelor of Science degrees are recommended for students intending to pursue graduate work in Chemistry or Biochemistry or those desiring a strong technical background for work in the chemical or biotechnology industry or other highly technical areas. The BS Chemistry degree is approved by the American Chemical Society.

Safety

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (https://www.csus.edu/college/natural-sciences-mathematics/internal/safety/). Failure to adhere to the Safety Policies may constitute grounds for withdrawal from a course and/or dismissal from the program.

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<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Required Lower Division Courses (44 Units)</td>
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<td>CHEM 1A</td>
<td>General Chemistry I 1,2</td>
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<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
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<tr>
<td>CHEM 24</td>
<td>Organic Chemistry Lecture I</td>
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<tr>
<td>CHEM 25</td>
<td>Organic Chemistry Laboratory</td>
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<td>CHEM 31</td>
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<td>MATH 30</td>
<td>Calculus I 2</td>
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<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>MATH 32</td>
<td>Calculus III</td>
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<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
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<td>PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
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<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism</td>
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<td></td>
<td>Required Upper Division Courses (33 Units)</td>
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<td>CHEM 110 &amp; 110L</td>
<td>Inorganic Chemistry Lecture &amp; Advanced Inorganic Chemistry Laboratory</td>
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<td>CHEM 124</td>
<td>Organic Chemistry Lecture II</td>
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### Area B: Physical Universe and Its Life Forms (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>CHEM 145</td>
<td>Applications of Computational Chemistry</td>
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<td>CHEM 160B</td>
<td>Metabolism and Regulation of Biological Systems</td>
<td>3</td>
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<td>CHEM 162</td>
<td>General Biochemistry Laboratory</td>
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<td>CHEM 164</td>
<td>Advanced Biochemistry Laboratory</td>
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<td>CHEM 198</td>
<td>Senior Research</td>
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</table>

**Total Units**: 6

1. Students taking CHEM 160A to fulfill the Biochemistry requirement MUST take BOTH CHEM 160A AND CHEM 160B.

### Notes:

- An appropriate upper division mathematics or physics course may be used to fulfill Chemistry elective units (department permission required).
- Graduate courses (excepting CHEM 200, CHEM 299 and CHEM 500) may be used to fulfill Chemistry elective units (department permission required).

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
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<td>A</td>
<td>Basic Subjects (9 Units)</td>
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<tr>
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<td>3</td>
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<tr>
<td>A2</td>
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<tr>
<td>A3</td>
<td>Critical Thinking</td>
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<tr>
<td>B</td>
<td>Physical Universe and Its Life Forms (6 Units)</td>
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<tr>
<td>B1</td>
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<tr>
<td>B2</td>
<td>Life Forms</td>
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<td>B3</td>
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<tr>
<td>B4</td>
<td>Math Concepts 2</td>
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<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
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<tr>
<td>C</td>
<td>Arts</td>
<td>3</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**: 77

### Additional Courses

- CHEM 125 Advanced Organic Chemistry Laboratory 3
- CHEM 133 Chemical Instrumentation 4
- CHEM 140A Physical Chemistry Lecture I 3
- CHEM 140B Physical Chemistry Lecture II 3
- CHEM 141 Physical Chemistry Laboratory 3
- CHEM 161 General Biochemistry 3
- CHEM 160A Structure and Function of Biological Molecules 3
- CHEM 160B Metabolism and Regulation of Biological Systems 3
- CHEM 198 Senior Research 3

**Total Units**: 6

### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Basic Subjects (9 Units)</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Physical Universe and Its Life Forms (6 Units)</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>The Individual and Society (9 Units)</td>
<td>3</td>
</tr>
<tr>
<td>E</td>
<td>Understanding Personal Development (3 Units)</td>
<td>3</td>
</tr>
<tr>
<td>F</td>
<td>Ethnic Studies (3 Units)</td>
<td>3</td>
</tr>
<tr>
<td>G</td>
<td>Total Units</td>
<td>42</td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

### Notes:

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies GE.

### Chemistry Honors Program

#### Program Description

The purpose of the Chemistry Honors Program is to recognize and support the academic progress of our highest achieving students.
through undergraduate research culminating in a Chemistry Honors thesis. The Honors Concentration must be combined with one of the five undergraduate chemistry degrees: BA in Chemistry, BA in Chemistry (Biochemistry), BA in Chemistry (Forensic Chemistry), BS in Chemistry, or BS in Biochemistry. In order to fulfill the research requirement, students may engage in two semesters of research with a Chemistry faculty member at Sacramento State (e.g. enroll in CHEM 189A followed by CHEM 198) or they may use a summer research experience either on campus (e.g. NSM SURE, Russell-Forkey Research Award) or off campus (e.g. NSF-REU) in Chemistry or Biochemistry in place of CHEM 189A. All Honors students must enroll in CHEM 198H and complete a Chemistry Honors Thesis.

**Eligibility Requirements**

"Native" Students:
- Declared as a Chemistry/Biochemistry major;
- Junior standing;
- Minimum 3.5 GPA overall and a minimum 3.33 GPA in Math/Science courses;
- Complete CHEM 1A and MATH 30 with a "B" grade or higher; and
- Maximum of one repeated Math/Science course (in college career).

Transfer Students:
- Declared as a Chemistry/Biochemistry major;
- Junior standing;
- Entering minimum 3.5 GPA overall and a minimum 3.33 GPA in Math/Science courses (all institutions combined);
- Completed CHEM 1A and MATH 30 (or equivalents) with a "B" grade or higher;
- Maximum of one repeated Math/Science course (in college career); and
- Completed at least 9 units at Sacramento State with a minimum 3.33 GPA, including any one chemistry class which counts towards your chosen degree.

**Admission Requirements**

Admission to the program for eligible students requires nomination by a faculty member and review and approval by a department committee.

**Minimum GPA and Additional Requirements**

For students to remain in the program, they must:
1. maintain a minimum 3.5 GPA overall and a minimum 3.33 GPA in Math/Science courses; and
2. have no repeats in Math/Science courses.

**Program Requirements**

The curriculum of the Honors Program is designed to be coupled with the BA or BS degree programs. The Honors Program requires the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 198</td>
<td>Senior Research</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 198H</td>
<td>Chemistry Honors Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minor in Chemistry**

Units required for Minor: 24

**Program Description**

Chemistry is the area of science in which the composition, structure, properties, and reactions of substances are studied.

**Minimum Grade Requirement**

A minimum grade of "C-" is required in all courses applied to the Chemistry minor.

**Program Requirements**

In consultation with an advisor, choose 24 units of chemistry coursework, 6 units must be upper division courses in chemistry.

**MS in Chemistry**

Total units required for MS: 30

**Program Description**

The graduate programs in the Department of Chemistry provide students with advanced study in synthesis, separation, and analysis of molecules with an emphasis on developing research skills in experimental and computational chemistry and in chemistry education. The graduate curriculum prepares students for careers in industry and teaching and for entry into PhD and professional programs.

**Admission Requirements**

Admission as a classified graduate student in the Department of Chemistry requires:
- a BA degree in chemistry, biochemistry or its equivalent as determined by the graduate committee;
- a minimum 2.5 GPA overall, in the last 60 units, and in chemistry, biochemistry, math, and physics courses;
- two letters of recommendation from persons qualified to judge the applicant’s potential for successful graduate study;
- a personal statement describing the applicant’s motivation for seeking a master’s degree, why the Sacramento State Chemistry department was selected for pursuing this degree, and the area of advanced study within chemistry, biochemistry or education research the applicant plans to focus.

Students desiring to apply to the chemistry graduate program should first examine the chemistry department’s web page for basic requirements and deadlines and then contact the Chemistry department graduate coordinator or department Chair for further information if needed. International students should also contact the Office of Global Education for specific application requirements for international applicants.

**Admission Procedures**

Students desiring to apply to the chemistry graduate program should first contact the Chemistry Department Graduate Coordinator or Department Chair. Information about the graduate program will be discussed with you.
In addition to a Departmental application, applicants must also complete a separate university application by the posted application deadline for the term applying. For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/. The university application requires:

- an online application for admission; and
- two sets of official transcripts from all colleges and universities attended, other then Sacramento State.

Approximately six weeks after receipt of all items listed, an admission decision will be mailed to the applicant.

**Placement Examinations**

All new graduate students must take two placement exams, in organic and physical chemistry, administered at the beginning of each semester. These exams cover topics commonly found in undergraduate courses. Exam results are used to determine undergraduate deficiencies in these areas of chemistry. All deficiencies must be removed by either taking and passing with a grade of “B” an appropriate undergraduate course or by taking again and passing the placement exam. A placement exam can be taken only twice; if the exam is not passed after the second attempt, the appropriate undergraduate course must be completed with a minimum grade of “B” in the first attempt.

**Course Requirements**

The program centers on a core of four courses designed to increase a student’s knowledge and skills in applications of analytical techniques, general instrumentation techniques, chemical separation techniques, and analysis of spectra with applications in the field of biochemistry and organic chemistry primarily. Electives are offered to permit students to expand further their knowledge and skills in chemistry. A minimum overall and semester GPA of 3.00 must be maintained to sustain good standing in the graduate program. A grade of “C” or better in individual courses is required for graded work to be credited toward fulfillment of the master's degree. Students not meeting these requirements are subject to probationary status and potential disqualification from the program. In addition, students must regularly attend seminars offered approximately once a week each semester. Each student will give one seminar during his/her tenure as a graduate student that is on a literature topic not related to his/her thesis topic and another on his/her thesis results. Participation in seminar expands a student’s knowledge of current research in chemistry and also assists in developing his/her oral presentation skills.

**Thesis/Research**

All students are required to complete a thesis involving original research. The research may be conducted on campus with a chemistry faculty member or at an employer’s work site providing the work involves producing a new contribution to the field of chemistry. Research conducted at a work site requires a supervising chemistry faculty member. The work site mentor and project must be approved by the Graduate Committee.

**Advising**

Following admission to the chemistry graduate program, students are advised by the graduate coordinator and by the faculty thesis supervisor. Students must consult with three faculty members before deciding on a thesis advisor. Students who are fully qualified upon admission and make the expected progress can normally finish the degree in two years.

**Financial Aid**

Financial aid is available. Please contact the Financial Aid Office for more information (1006 Lassen Hall, www.csus.edu/faid (http://www.csus.edu/faid/)).

**Employment**

Qualified graduate students may be hired for a limited number of positions as teaching associates (TA). TAs teach undergraduate chemistry laboratories and discussions. Eligibility requirements include: classified status, minimum cumulative GPA 3.0, good English communication skills, passing score on a general chemistry examination. Continuing students desiring support as a TA will be evaluated on the basis of past performance as a TA and academic record as a graduate student in the program. Contact the Department Chair for current employment information.

**Safety**

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (https://www.csus.edu/college/natural-sciences-mathematics/internal/safety/). Failure to adhere to the Safety Policies may constitute grounds for withdrawal from a course and/or dismissal from the graduate program.

**Laboratory Fees**

Students enrolling in chemistry laboratory courses or supervisory courses involving laboratory research are required to pay a laboratory fee for each course. In addition, if a student breaks an item in a laboratory, s/he is required to replace it or pay a breakage cost. An administrative hold is placed on a student's academic record if either is not paid. Details are given at the first class meeting.

**Repeating a Chemistry Course**

Students repeating a chemistry course must repeat an equivalent course in both units and content.

**Minimum Units and Grade Requirement for the Degree**

Units required for the MS: 30

Minimum Cumulative GPA: 3.0

**Advancement to Candidacy**

After completing at least 40% of the graduate degree coursework with an overall GPA of 3.0 or higher, a student may submit an application for Advancement to Candidacy, which indicates the proposed program of graduate study is acceptable to the student, faculty advisor, thesis committee, and the Chemistry graduate coordinator. This procedure may begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements
- met English proficiency requirements
- completed at least 12 units of 200-level courses (including CHEM 200) with a minimum 3.0 GPA;
- obtained approval of the thesis project by the thesis advisor and thesis committee. Students obtain thesis project approval through submission of a formal thesis project proposal and an oral presentation of the project to the thesis committee.
- successfully completed a literature seminar presentation
Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 200</td>
<td>Research Methods in Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 220</td>
<td>Spectrometric Identification of Compounds</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 230</td>
<td>Separation Methods in Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Seminar in Chemistry - Semester 1
- CHEM 294 Seminar In Chemistry 0.5
- Seminar in Chemistry - Semester 2
- CHEM 294 Seminar In Chemistry 0.5
- Seminar in Chemistry - Semester 3
- CHEM 294 Seminar In Chemistry 0.5
- Seminar in Chemistry - Semester 4
- CHEM 294 Seminar In Chemistry 0.5

Electives (9 Units)

Select 9 units from the following:
- CHEM 226 Physical Organic Chemistry 3
- CHEM 245 Applications of Computational Chemistry 3
- CHEM 250 Selected Topics in Chemistry 3
- CHEM 251 Topics in Interdisciplinary Chemistry 3
- CHEM 252 Topics in Synthetic Chemistry 3
- CHEM 253 Topics in Applied Chemistry 3
- CHEM 254 Topics in Physical Chemistry 3
- CHEM 255 Topics in Chemistry Education 3
- CHEM 260 Protein Biochemistry 3

Completion Requirements (10 Units)

- CHEM 299 Special Problems 6
- CHEM 500 Culminating Experience 4

Total Units 30

1 Graduate or upper division courses in appropriate areas (BIO, GEOL, PHYS, ENVS) may be used upon approval by graduate advisor and department chair. A maximum of 2 units of upper division undergraduate coursework may be used toward fulfilling electives.

MS in Chemistry (Biochemistry)

Total units required for MS: 30

Program Description

The graduate programs in the Department of Chemistry provide students with advanced study in synthesis, separation, and analysis of molecules with an emphasis on developing research skills in experimental and computational chemistry and in chemistry education. The graduate curriculum prepares students for careers in industry and teaching and for entry into PhD and professional programs.

Admission Requirements

Admission as a classified graduate student in the Department of Chemistry requires:

- a BA degree in chemistry, biochemistry or its equivalent as determined by the graduate committee;
- a minimum 2.5 GPA overall, in the last 60 units, and in chemistry, biochemistry, math, and physics courses;
- two letters of recommendation from persons qualified to judge the applicant’s potential for successful graduate study;
- a personal statement describing the applicant’s motivation for seeking a master’s degree, why the Sacramento State Chemistry department was selected for pursuing this degree, and the area of advanced study within chemistry, biochemistry or education research the applicant plans to focus;

Students desiring to apply to the chemistry graduate program should first examine the chemistry department’s web page for basic requirements and deadlines and then contact the Chemistry department graduate coordinator or department Chair for further information if needed. International students should also contact the Office of Global Education for specific application requirements for international applicants.

Admission Procedures

Students desiring to apply to the chemistry graduate program should first contact the Chemistry Department Graduate Coordinator or Department Chair. Information about the graduate program will be discussed with you.

In addition to a Departmental application, applicants must also complete a separate university application by the posted application deadline for the term applying. For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/. The university application requires:

- an online application for admission; and
- two sets of official transcripts from all colleges and universities attended, other than Sacramento State.

Approximately six weeks after receipt of all items listed, an admission decision will be mailed to the applicant.

Placement Examinations

All new graduate students must take two placement exams, in organic and physical chemistry, administered at the beginning of each semester. These exams cover topics commonly found in undergraduate courses. Exam results are used to determine undergraduate deficiencies in these areas of chemistry. All deficiencies must be removed by either taking and passing with a grade of “B” an appropriate undergraduate course or by taking again and passing the placement exam. A placement exam can be taken only twice; if the exam is not passed after the second attempt, the appropriate undergraduate course must be completed with a minimum grade of “B” in the first attempt.

Course Requirements

The program centers on a core of four courses designed to increase a student’s knowledge and skills in applications of analytical techniques, general instrumentation techniques, chemical separation techniques, and analysis of spectra with applications in the field of biochemistry and organic chemistry primarily. Electives are offered to permit students to expand further their knowledge and skills in chemistry. A minimum overall and semester GPA of 3.00 must be maintained to sustain good standing in the graduate program. A grade of “C” or better in individual courses is required for graded work to be credited toward fulfillment of the master’s degree. Students not meeting these requirements are subject to probationary status and potential disqualification from the program. In addition, students must regularly attend seminars offered approximately once a week each semester. Each student will give one seminar during his/her tenure as a graduate student that is on a literature topic not related to his/her thesis topic and another on his/her thesis.
results. Participation in seminar expands a student's knowledge of current research in chemistry and also assists in developing his/her oral presentation skills.

**Thesis/Research**

All students are required to complete a thesis involving original research. The research may be conducted on campus with a chemistry faculty member or at an employer's work site providing the work involves producing a new contribution to the field of chemistry. Research conducted at a work site requires a supervising chemistry faculty member. The work site mentor and project must be approved by the Graduate Committee.

**Advising**

Following admission to the chemistry graduate program, students are advised by the graduate coordinator and by the faculty thesis supervisor. Students must consult with three faculty members before deciding on a thesis advisor. Students who are fully qualified upon admission and make the expected progress can normally finish the degree in two years.

**Financial Aid**

Financial aid is available. Please contact the Financial Aid Office for more information (1006 Lassen Hall, www.csus.edu/faid (http://www.csus.edu/faid/)).

**Employment**

Qualified graduate students may be hired for a limited number of positions as teaching associates (TA). TAs teach undergraduate chemistry laboratories and discussions. Eligibility requirements include: classified status, minimum cumulative GPA 3.0, good English communication skills, passing score on a general chemistry examination. Continuing students desiring support as a TA will be evaluated on the basis of past performance as a TA and academic record as a graduate student in the program. Contact the Department Chair for current employment information.

**Safety**

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (https://www.csus.edu/college/natural-sciences-mathematics/internal/safety/). Failure to adhere to the Safety Policies may constitute grounds for withdrawal as a TA and dismissal from the graduate program.

**Laboratory Fees**

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**Repeating a Chemistry Course**

Students repeating a chemistry course must repeat an equivalent course in both units and content.

**Minimum Units and Grade Requirement for the Degree**

| Units required for the MS: 30 |

Minimum Cumulative GPA: 3.0

**Advancement to Candidacy**

After completing at least 40 percent of the graduate degree coursework with an overall GPA of 3.0 or higher, a student may submit an application for Advancement to Candidacy, which indicates the proposed program of graduate study is acceptable to the student, faculty advisor, thesis committee, and the Chemistry graduate coordinator. This procedure may begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements
- met English proficiency requirements
- completed at least 12 units of 200-level courses (including CHEM 200) with a minimum 3.0 GPA;
- obtained approval of the thesis project by the thesis advisor and thesis committee. Students obtain thesis project approval through submission of a formal thesis project proposal and an oral presentation of the project to the thesis committee.
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**Program Requirements**

<table>
<thead>
<tr>
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<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CHEM 200</td>
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<tr>
<td>CHEM 260</td>
<td>Protein Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 261</td>
<td>Nucleic Acid Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Seminar in Chemistry - Semester 1</td>
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</tr>
<tr>
<td>CHEM 294</td>
<td>Seminar In Chemistry</td>
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<tr>
<td>Seminar in Chemistry - Semester 2</td>
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</tr>
<tr>
<td>CHEM 294</td>
<td>Seminar In Chemistry</td>
<td>0.5</td>
</tr>
<tr>
<td>Seminar in Chemistry - Semester 3</td>
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<tr>
<td>CHEM 294</td>
<td>Seminar In Chemistry</td>
<td>0.5</td>
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<tr>
<td>Seminar in Chemistry - Semester 4</td>
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</tr>
<tr>
<td>CHEM 294</td>
<td>Seminar In Chemistry</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**Electives (9 Units)**

Select 9 units from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 220</td>
<td>Spectrometric Identification of Compounds</td>
</tr>
<tr>
<td>CHEM 226</td>
<td>Physical Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 230</td>
<td>Separation Methods in Chemistry</td>
</tr>
<tr>
<td>CHEM 245</td>
<td>Applications of Computational Chemistry</td>
</tr>
<tr>
<td>CHEM 250</td>
<td>Selected Topics in Chemistry</td>
</tr>
<tr>
<td>CHEM 251</td>
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</tr>
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<td>CHEM 254</td>
<td>Topics in Physical Chemistry</td>
</tr>
<tr>
<td>CHEM 255</td>
<td>Topics in Chemistry Education</td>
</tr>
<tr>
<td>CHEM 299</td>
<td>Special Problems</td>
</tr>
<tr>
<td>CHEM 500</td>
<td>Culminating Experience</td>
</tr>
</tbody>
</table>

**Completion Requirements (10 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 299</td>
<td>Special Problems</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 500</td>
<td>Culminating Experience</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 30

1 Graduate or upper division courses in appropriate areas (BIO, GEOL, PHYS, ENVS) may be used upon graduate advisor and department chair. A maximum of 2 units of upper division undergraduate coursework may be used toward fulfilling electives.
Subject Matter Program (Chemistry)

Units required for the Subject Matter Program: 47-57

Program Description

The Science Subject Matter Program (in biology, chemistry, physics, or foundational level general science) is designed to meet the California Commission on Teacher Credentialing (CTC) subject matter requirement for students to enter a California Single Subject teaching credential program. Meeting the subject matter requirement is a credential program admission requirement, and can be met either through a subject matter program (such as those described below) or by taking a state approved content exam (currently the California Subject Exam for Teachers, the CSET). In order to meet the subject matter obtain a California K-12 Teaching Credential, a program requirement, all courses must be completed with a grade of "C-" or better. In order to teach public school in California, you must also complete a teaching credential program.

Subject matter programs are not degrees or concentrations; instead they are a series of courses that allow a student to meet the requirements for admission to a teaching credential program. Students must also complete a BA or BS degree (with any major) to fulfill the credential requirements.

Science majors who intend to pursue a teaching credential should see a faculty advisor or the department chair in the department of their academic major. It is recommended that they do so early as it is critical that their science coursework be carefully planned and coordinated to include the required subject matter program courses. In addition, students are encouraged to become involved with education related activities like grading, assisting in labs, tutoring K-12 students, and visiting schools; please speak with the subject matter advisors in your area for more information.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses (47-57 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTR 4A</td>
<td>Introduction to the Solar System</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 4B</td>
<td>Introduction to Stars, Galaxies, and Cosmology</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>1</td>
</tr>
<tr>
<td>&amp; BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td></td>
</tr>
<tr>
<td>BIO 10</td>
<td>Basic Biological Concepts</td>
<td></td>
</tr>
<tr>
<td>&amp; BIO 15L</td>
<td>Laboratory Investigations in Biology</td>
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</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>&amp; CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 24</td>
<td>Organic Chemistry Lecture I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 31</td>
<td>Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ENVS 10</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 10</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 5A &amp; PHYS 5B</td>
<td>General Physics: Mechanics, Heat, Sound</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>General Physics: Light, Electricity and Magnetism, Modern Physics</td>
<td>12</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>47-57</td>
</tr>
</tbody>
</table>

1 Course also satisfies General Education (GE)/Graduation Requirement.

Geography

College of Natural Sciences and Mathematics

Program Description

Geography students at Sacramento State explore Earth's natural and cultural environments using methods from the natural sciences and the social sciences. They study climate, weather, landforms, water resources, and plants and animals, as well as peoples, societies, economies, and cities. These phenomena overlap in intricate ways, giving rise to distinctive places and regions. Geography's approach emphasizes Earth's spatial relationships and patterns, and the processes that govern them, whether found in nature or in human behavior.

Students work with quantitative and qualitative data from a variety of sources, including published censuses and maps, aerial imagery, field and lab work, surveys, and interviews. They use a variety of tools, including Global Positioning Systems (GPS), Geographic Information Systems (GIS), and other computer applications to collect, display, and analyze spatial data. Geography students study and address complex issues, especially those with a human-environment interface, such as climate change, resource management, urban growth and design, globalization, immigration, ethnic identity, and territorial conflict. Geographical understanding is applied at different scales, from the local to the global, and regional expertise is cultivated.

Lower division offerings in physical geography, cultural geography, and geographical techniques introduce students to the discipline. At the upper division level, students can choose among regional classes, topical classes on subjects from meteorology to transportation, and technique classes that include GIS, map making, quantitative methods, remote sensing, and field work. Majors select a concentration in a geographic subfield. Although not required, the department encourages students to take elective courses and/or pursue a minor complementary to their geographical interests. It also encourages and facilitates students going on Education Abroad.

Degree Programs

BA in Geography (Geographic Information Science) (p. 861)

BA in Geography (Human Geography) (p. 863)

BA in Geography (Metropolitan Area Planning) (p. 864)

BA in Geography (Physical Geography) (p. 866)

Minor in Geography (p. 869)

Minor in Geographic Information Systems (p. 869)
Certificate in Pre-Planning (Metropolitan Planning or Resource Planning) (p. 868)

Special Features
- Numerous internships and jobs in the Sacramento area, including many with state and local government
- Many opportunities for field work in a variety of settings
- A senior project class in which each student conducts his/her own research
- A small major allowing for lots of interaction with faculty and fellow students, including attendance at state and regional professional meetings
- Various pathways to complete the major, providing flexibility and the opportunity to make efficient progress toward graduation

Career Possibilities
Geographer · Cartographer · Climatologist · Resource Scientist · Meteorologist · Geospatial Intelligence Professional · Environmental Scientist · Geographic Information System Specialist · Geographic Consultant · Surveyor · Sustainability Coordinator · Water Resources Analyst · Redevelopment Specialist · Environmental Planner · Energy Analyst · Foreign Area Specialist · Land Economist · Recreation Planner · Locational Analyst · Environmental Education Specialist · Conservationist · Urban Planner · Transportation Planner · Aerial Photo Interpreter · Remote Sensing Specialist · Community Development Specialist · Land Use Planner · Demographer · Cultural Resources Manager · Air Resources Specialist · Real Estate Research Analyst · Pedestrian and Bicycle Advocate · Teacher · Recycling Coordinator · Route Planner · Habitat Manager

Contact Information
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Administrative Support Coordinator
Sequoia Hall 334
(916) 278-6109
Department of Geography Website (http://www.csus.edu/geog/)

Faculty
ARPAGIAN, JASMINE
GERVAIS, BRUCE R.
KEEGAN, CAROLINE
KLIMASZEWSKI-PATTERSON, ANNA
MOLANA, HANIEH
OBERLE, PATRICK
ORCUTT, ERICA
SCHMIDTLEIN, MATHEW
WANKET, JAMES A.

GEOG 1. Physical Geography: The Distribution of Natural Phenomena. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer
This course provides an overview of Earth's physical systems, including the atmosphere, biosphere, hydrosphere, and lithosphere. Topics covered include weather and climate, biological systems, plate tectonics, volcanoes and earthquakes, and weathering and erosion. Emphasis is placed on the role of humans in influencing Earth's physical systems.

GEOG 2. Cultural Geography. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Consideration of the diversity of patterns of land use, settlement and movement established and evolved by humans as a result of the interaction of cultural and physical factors; emphasis on student use of maps and other tools of geographic presentation for analyzing the nature, variation and distribution of cultural features of the earth's surface.

GEOG 2H. Cultural Geography - Honors. 3 Units
Prerequisite(s): Open to Honors students only.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer
Consideration of the diversity of patterns of land use, settlement and movement established and evolved by humans as a result of the interaction of cultural and physical factors; emphasis on student use of maps and other tools of geographic presentation for analyzing the nature, variation and distribution of cultural features of the earth's surface.
Note: This is a special offering designed as part of the G.E. Honors program.

GEOG 3. Introduction to Maps and Geographic Technologies. 3 Units
Term Typically Offered: Spring only
Introduction to maps, map concepts, and geographic technologies. Maps are the most effective way to communicate spatial data, and introduces students to the quickly changing world of maps (both hard-copy and digital) and geographic technologies including map and aerial photograph interpretation, spreadsheet operations, introductory statistics, global positioning systems (GPS), Internet mapping, satellite and aerial images, and geographic information systems (GIS) that aid in data collection, analysis, and presentation. Lecture two hours; laboratory two hours.

GEOG 5. Violent Weather/Changing Atmosphere. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring
Introduction to meteorological and climatological principles and concepts. These principles will be used to examine severe atmospheric phenomena, including hurricanes, tornadoes, thunderstorms, lightning, destructive winds, severe storms, heat waves, droughts and floods, particularly in relation to human-caused climate change and the effects of these phenomena on humanity.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>General Education Area/Graduation Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 11.</td>
<td>Laboratory in Physical Geography.</td>
<td>1 Unit</td>
<td>Fall, Spring, Summer</td>
<td>GEOG 1; may be taken concurrently.</td>
<td>Physical Science (B1), Laboratory (B3)</td>
</tr>
<tr>
<td>GEOG 100.</td>
<td>Themes In World Geography.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>GEOG 110.</td>
<td>Further Studies in Area B (B5)</td>
</tr>
<tr>
<td>GEOG 107.</td>
<td>Remote Sensing.</td>
<td>3 Units</td>
<td>Spring only</td>
<td></td>
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</tr>
<tr>
<td>GEOG 109.</td>
<td>Geographic Information Systems.</td>
<td>3 Units</td>
<td>Fall, Spring, Summer</td>
<td>GEOG 109 or instructor permission.</td>
<td></td>
</tr>
<tr>
<td>GEOG 110.</td>
<td>Advanced Geographic Information Systems.</td>
<td>3 Units</td>
<td>Fall only</td>
<td>GEOG 109 or instructor permission.</td>
<td></td>
</tr>
<tr>
<td>GEOG 111.</td>
<td>Elements Of Meteorology.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>GEOG 1 or instructor permission.</td>
<td>Further Studies in Area B (B5)</td>
</tr>
<tr>
<td>GEOG 115.</td>
<td>Biogeography.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>GEOG 1 or instructor permission</td>
<td>Further Studies in Area B (B5)</td>
</tr>
<tr>
<td>GEOG 116.</td>
<td>Global Climate Change.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>GEOG 1 or instructor permission</td>
<td>Further Studies in Area B (B5)</td>
</tr>
<tr>
<td>GEOG 117.</td>
<td>Landforms.</td>
<td>3 Units</td>
<td>Fall only</td>
<td>GEOG 1 or instructor permission</td>
<td>Further Studies in Area B (B5)</td>
</tr>
</tbody>
</table>

GEOG 101. Introduction to the geographic distribution of life. Communities and biomes, changing continents and climates, dispersal, colonization, extinction, life on islands, and past and present human impacts are examined.

Note: Field trip required.

Field trip(s) may be required.

GEOG 102. Ideas and Skills in Geography. 3 Units

Term Typically Offered: Fall only

Prerequisite(s): GEOG 1 or GEOG 2 or GEOG 3 or GEOG 11.

GEOG 105. Cartography. 3 Units

Term Typically Offered: Spring only

Introduction to principles map design for the digital era. Use of illustration software for the production of printed and electronic maps, and other visualizations of spatial information. Theory and history of cartography, including color theory, map projections, visual variables and cartographic scale. Lecture two hours; laboratory three hours.

GEOG 112. Advanced Geographic Information Systems. 3 Units

Term Typically Offered: Fall only

Prerequisite(s): GEOG 109 or instructor permission.

Builds on the introduction to the hardware, software and operations of GIS offered with the previous courses, providing the essentials required by a beginning GIS analyst or applications support specialist. Emphasis will be placed on problem solving strategies in the context of GIS projects.
GEOG 118. Earth Transformed. 3 Units
Term Typically Offered: Fall, Spring

Explores the evolving human role in transforming Earth's physical environments. Topics range from prehistoric extinction to modern environmental problems in select regions. Emphasis is placed on wide-ranging effects of resource use and disposal, with particular reference to atmosphere and biological problems and sustainable solutions.

GEOG 119. Visualizing Global Environments. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Using current geospatial technologies, such as remote sensing and GIS, the course provides an introduction to the distributions of climate, plant cover, soils, and landforms over the face of the earth. While examining processes and conditions that cause these distributions, students will also explore the methods and techniques that let us visualize these distributions, and use maps as communicative devices in our explorations of these topics.

GEOG 121. United States and Canada. 3 Units
Term Typically Offered: Fall, Spring

Present distribution and historical development of population, land use and industry in the U.S. and Canada in relation to regional variations in the physical environment and cultural heritage.

GEOG 125. Geography Of East Asia. 3 Units
Term Typically Offered: Fall, Spring

Geographic setting and nature of Far Eastern civilization; origins, development and present outlines of settlement; cultures, resource use, economic structures, population, levels of technological achievement, and land use in China, Japan and Korea.

GEOG 127. Geography Of Africa. 3 Units
Term Typically Offered: Spring only – odd years

Emphasis is on sub-Saharan Africa with consideration given to selected topics such as population problems, industrialization, regional groupings, transportation, and internal and external relationships.

GEOG 128. Geography Of Europe. 3 Units
Term Typically Offered: Spring only – even years

Survey of Europe with emphasis on its physical environment, contemporary demographic, economic, and ethnic patterns, and the changing political landscape. Consideration will also be given to Europe's historic and present-day links with other world regions, and to the geographic basis for many of the social, political, economic, and environmental challenges facing contemporary Europe.

GEOG 129A. Special Topics in Regional Geography A. 3 Units
Term Typically Offered: Fall only

Geographic survey of a selected region with emphasis on its physical environment and selected economic, demographic, political, and cultural patterns. Consideration may include its connection to other world regions and its role in current events. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129B and GEOG 129C may be taken for up to 9 units.

GEOG 129B. Special Topics in Regional Geography B. 3 Units
Geographic survey of a selected region with emphasis on its physical and human geography. Topics may include climate, landforms, vegetation, economics, demographics, culture, and the region's connection to other world regions and its role in current events. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129A and GEOG 129C may be taken for up to 9 units.

GEOG 129C. Special Topics in Regional Geography C. 3 Units
A selected world region is the focus of this course that geographically surveys the region's physical and human environment. Potential topics include climate, landforms, vegetation, economics, demographics, culture, and more. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129A and GEOG 129B may be taken for up to 9 units.

GEOG 131. California. 3 Units
Term Typically Offered: Fall only

Study of landforms, climate, vegetation, population distribution and change, industry, transportation, water, energy, and agriculture in California.

GEOG 133. Geography of the Middle East. 3 Units
Term Typically Offered: Fall only

This course will help students to develop a nuanced understanding of the complexity and diversity of the Middle East. Focusing on the human geography of the Middle East, we will examine the politics and cultures of the region. Particular focus will be on post-World War I geopolitics, when contemporary nation-states came to existence and several different conflicts evolved.

GEOG 141. Geography of Economic Activity. 3 Units
Term Typically Offered: Fall only – even years

Spatial organization of man's activities related to production, exchange and consumption. Attention is given to resource development and the real variations of factors affecting it, to concepts of spatial interaction and to spatial aspects of agricultural, industrial and urban land use. An examination of problems related to regional economic development. Changing perceptions of spatial organization of economic activities is also considered. Emphasis is on both theoretical framework and case study applications.

GEOG 142. Feminist Geography. 3 Units
Term Typically Offered: Fall, Spring

Feminist geography has long aimed to unbind geography, asking challenging questions about who geographers are, and what counts as geographic theory and practice, which spaces geographers study, and whose spaces inform theory. In this course we bring the feminist project into the classroom by exploring the work of feminist geographers who seek to challenge the bounded whiteness in our field. We also aim to incorporate the decolonial practices to transform the geographic scholarship in an international and multi-disciplinary context.

GEOG 143. Environmental Hazards and Society. 3 Units
Term Typically Offered: Spring only – odd years

Focuses on how a place's social systems and physical systems intersect to create hazards. Considers the development of various theoretical approaches to hazards; risk perception and societal responses to hazard events; the history of U.S. disaster response; and approaches to risk/vulnerability assessment.
GEOG 144. Transforming the City.  3 Units
Examination of dynamic urban social, spatial, and political forces related to housing, gentrification, and public space. Attention is given to the roles of class, race, gender, and ethnicity in shaping the spaces and processes of urban transformation in cities across the world. Guest speakers, written assignments, and discussions complement weekly lectures.

GEOG 145. Population Geography.  3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only
Spatial patterns of population numbers and characteristics; migration and spread of ideas; potential for economic and cultural developments.

GEOG 147. Urban Geography.  3 Units
Term Typically Offered: Spring only – odd years
Consideration of cities as centers of human activity from the rise of urban life in the Old and New Worlds to the present day patterns of metropolis and megalopolis. The functions and interactions of cities in Earth’s limited space and on Earth’s limited resources are studied historically and crossculturally. Also examined are changing perceptions of the urban phenomenon and attempts to enhance the quality of urban life.

GEOG 148. Urban and Regional Planning.  3 Units
Term Typically Offered: Fall, Spring
Introduction to the theory and practice of urban and regional planning. Topics include the history of planning, the development of comprehensive and land use plans, growth management, and transportation and environmental planning. Includes guest speakers from the planning community as well as the opportunity to work on a project with a community organization or government agency to put into practice what is discussed in class.

GEOG 149. Transportation Geography.  3 Units
Prerequisite(s): GEOG 141, GEOG 147, or GEOG 148 or instructor permission.
Term Typically Offered: Spring only – odd years
Explores the geography of transportation using both theory and applications, quantitative and qualitative methods. Topics include the history and economic importance of transportation systems for all major modes; their political, social, and environmental aspects; and basic analytical methods, including accessibility dynamics, network analysis, and spatial interaction models. Focus will be on the U.S., with frequent reference to local issues, though material will be drawn on from around the world.

GEOG 150. Programming for GIS.  3 Units
Term Typically Offered: Fall, Spring
This course is an introduction to programming and scripting for intermediate GIS users, using an object-oriented programming approach. You will develop and write clearly documented and structured geoprocessing programs using the Python programming language and ArcPy, a site package (library) for ArcGIS geoprocessing tools.

GEOG 151. Programming for GIS II.  3 Units
Prerequisite(s): GEOG 150 or instructor approval.
Term Typically Offered: Fall, Spring
This is an advanced course in programming and scripting for intermediate to advanced GIS users, using an object-oriented programming approach. You will develop well-documented and structured geoprocessing programs for data management, processing, and automation in the Python programming language, leveraging libraries such as ArcPy and GDAL.

GEOG 155. GIS Data Acquisition and Management.  3 Units
Prerequisite(s): GEOG 109
Term Typically Offered: Fall, Spring
This course focuses on acquisition and management of geospatial datasets and addresses the interpretation of a variety of data formats available in global information systems (GIS). It explores concepts of geospatial data management strategies, primary GIS data creation, secondary data acquisitions, and leveraging leading-edge geospatial data deployments.

GEOG 161. California's Water Resources.  3 Units
Term Typically Offered: Spring only
Study of the location and nature of the state’s surface and underground water, including development by government agencies, water needs of cities, farms, recreation and wildlife, implications of water rights, water marketing and conservation, and management of floods, droughts and pollution.

GEOG 163. Applied GIS.  3 Units
Prerequisite(s): GEOG 109.
Term Typically Offered: Fall only
GIS-based research methods and project management. Development of project proposals, data collection plans, and other research techniques in a group and/or individual setting. Readings and lab exercises build on previous GIS skills. Lecture 2 hours; Laboratory 3 hours.

GEOG 182. Qualitative Methods in Geography.  3 Units
Term Typically Offered: Spring only
Introduction to techniques useful in the analysis of spatial distributions and other geographic phenomena: basic aspatial descriptive and inferential techniques, correlation, regression, and spatial inferential techniques.

GEOG 183. Quantitative Methods in Geography.  3 Units
Term Typically Offered: Spring only
Introduction to techniques useful in the analysis of spatial distributions and other geographic phenomena: basic aspatial descriptive and inferential techniques, correlation, regression, and spatial inferential techniques.
Field trip(s) may be required.

GEOG 193B. Field Geography: Suburban-Rural. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Spring only
Exercises competition for land use in suburban Sacramento, as urban sprawl overruns less intensive uses. Small towns in the lower Sacramento Valley also examined. Group field trips, interviews, field mapping, and discussions. Field trip(s) may be required.

GEOG 193C. Field Geography: Physical. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall only
Survey of selected areas with systematic examination of elements of the natural landscape. Group field trips and individual preparation of reports and consultation with instructor. Field trip(s) may be required.

GEOG 194. Geography - Related Work Experience. 6 - 12 Units
Prerequisite(s): Consent of supervising faculty and Department Chair.
Term Typically Offered: Fall, Spring
Supervised employment in a company or agency doing geography-related work, arranged through the Department of Geography and the Cooperative Education Program office. Requires preparation of application packet, completion of a 3-6 month full- or part-time work assignment, and a written report. Units not applicable to the Geography major. Credit/No Credit

GEOG 195A. Geography Internship A. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised work experience at the beginning level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units. Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units. Credit/No Credit

GEOG 195B. Geography Internship B. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised work experience at the intermediate level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units. Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units. Credit/No Credit

GEOG 195C. Geography Internship C. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised work experience at an advanced level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units. Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units. Credit/No Credit

GEOG 190. Senior Research Seminar in Geography. 3 Units
Prerequisite(s): GEOG 1, GEOG 2, GEOG 3, GEOG 102; senior standing, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X; instructor permission. General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only
Writing-intensive capstone course requiring students to complete independent research projects displaying their mastery of geography’s content and methods. Projects undertaken in a given semester share a common thematic and/or regional focus. Students use bibliographic, field, spatial analytic, graphic, and verbal skills. Context for projects is provided by a review of the recent history of the discipline. Lecture/discussion three hours.

GEOG 192A. Geography Field Experience A. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring
A particular geographical area is explored and studied via beginning-level field observation. Emphasis may be placed on physical features, cultural features, or both.
Credit/No Credit

GEOG 192B. Geography Field Experience B. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring
A particular geographical area is explored and studied via intermediate-level field observation. Emphasis may be placed on physical features, cultural features, or both.
Credit/No Credit

GEOG 192C. Geography Field Experience C. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring
A particular geographical area is explored and studied via advanced-level field observation. Emphasis may be placed on physical features, cultural features, or both.
Credit/No Credit

GEOG 193A. Field Geography: Urban-Metropolitan. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Spring only – odd years
Examines the internal structure and external relations of Sacramento as a metropolitan center and of nearby urban communities through field observation and exercises. Emphasis is placed on mapping and interviewing as ways of gaining useful information on urban patterns.

GEOG 193B. Field Geography: Suburban-Rural. 3 Units
Prerequisite(s): Instructor permission.
Examines competition for land use in suburban Sacramento as urban sprawl overruns less intensive uses. Small towns in the lower Sacramento Valley also examined. Group field trips, interviews, field mapping and discussions. Field trip(s) may be required.
GEOG 196F. Feminist Geography. 3 Units
Term Typically Offered: Fall, Spring, Summer

In this course we bring the feminist project into the classroom by exploring the work of feminist geographers who seek to challenge the embedded whiteness in our field. We also aim to incorporate the decolonial practices to transform the geographic scholarship in an international and multi-disciplinary context.

GEOG 196G. Programming for GIS II. 3 Units
Prerequisite(s): GEOG 150 or instructor approval.
Term Typically Offered: Spring only

This is an advanced course in programming and scripting for intermediate to advanced GIS users, using an object-oriented programming approach. You will develop well-documented and structured geoprocessing programs for data management, processing, and automation in the Python programming language, leveraging libraries such as ArcPy and GDAL.

GEOG 196W. Political Ecology, Nature, and Justice. 3 Units
Term Typically Offered: Fall only – odd years

This course will provide an overview of political ecology, a growing subfield in geography that examines the unequal political and socioeconomic power relations embedded in human-environment interactions. Students will develop advanced critical thinking skills related to real-world socio-environmental issues. The course will introduce major debates, scholarly intersections, and particular themes in contemporary political ecological research, including a discussion of urban issues, gender, race, water, and food justice.

GEOG 198. Co-Curricular Activities. 1 - 6 Units
Prerequisite(s): Consent of faculty Sponsor and department chair.
Term Typically Offered: Fall, Spring

Co-curricular activities related to subject matter and concerns of the Geography Department, e.g. students may qualify for credit by providing special tutorial assistance to EOP students or others in introductory courses.

Note: May be repeated for up to 6 units of credit.

Credit/No Credit

GEOG 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and Department chair.
Term Typically Offered: Fall, Spring, Summer

Individual projects or directed reading.

Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199A. Geography Special Problems A. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at a beginning level. Graded (CR/NC Available) Units: 1.0 - 3.0

Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199B. Geography Special Problems B. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at an intermediate level, ordinarily taken following completion of GEOG 199A. Graded (CR/NC Available) Units: 1.0 - 3.0

Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199C. Geography Special Problems C. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at an advanced level. Ordinary taken following completion of GEOG 199A and GEOG 199B. Graded (CR/NC Available) Units: 1.0 - 3.0

Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Open only to students competent to carry on individual work.

Credit/No Credit

BA in Geography (Geographic Information Science)

Units required for Major: 46
Total units required for BA: 120

Program Description

The Bachelor of Arts in Geography with a concentration in Geographic Information Science (GIScience) emphasizes student development of geospatial skills. Geographic Information Science, cartography, remote sensing, and qualitative and quantitative methods prepare students to tackle any problem with a spatial dimension—from advising an individual firm on good locations for a new branch or supplier to modeling the spread of wildfires across a region to analyzing the global spread of diseases or new technologies.

Note:

• Courses cannot double count for the core and the concentration.
• Courses in the concentration core requirements (Geog 109, Geog 110, Geog 150, and Geog 155) must be passed with a minimum grade of C- to satisfy requirements.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>GEOG 1</td>
<td>Physical Geography: The Distribution of Natural Phenomena 1</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2</td>
<td>Cultural Geography 1</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3</td>
<td>Introduction to Maps and Geographic Technologies</td>
<td>3</td>
</tr>
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### Required Upper Division Core Courses (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 102</td>
<td>Ideas and Skills in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 118</td>
<td>Earth Transformed</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 190</td>
<td>Senior Research Seminar in Geography</td>
<td>1</td>
</tr>
</tbody>
</table>

### Geography Core (9 Units)

Select one course from each of the following three areas:

#### Human Geography

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 141</td>
<td>Geography of Economic Activity</td>
</tr>
<tr>
<td>GEOG 143</td>
<td>Environmental Hazards and Society</td>
</tr>
<tr>
<td>GEOG 145</td>
<td>Population Geography</td>
</tr>
<tr>
<td>GEOG 147</td>
<td>Urban Geography</td>
</tr>
<tr>
<td>GEOG 148</td>
<td>Urban and Regional Planning</td>
</tr>
<tr>
<td>GEOG 149</td>
<td>Transportation Geography</td>
</tr>
</tbody>
</table>

#### Physical Geography

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>GEOG 111</td>
<td>Elements Of Meteorology</td>
</tr>
<tr>
<td>GEOG 113</td>
<td>Climate</td>
</tr>
<tr>
<td>GEOG 115</td>
<td>Biogeography</td>
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<tr>
<td>GEOG 116</td>
<td>Global Climate Change</td>
</tr>
<tr>
<td>GEOG 117</td>
<td>Landforms</td>
</tr>
<tr>
<td>GEOG 161</td>
<td>California’s Water Resources</td>
</tr>
</tbody>
</table>

#### Regional Geography

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 121</td>
<td>United States and Canada</td>
</tr>
<tr>
<td>GEOG 125</td>
<td>Geography Of East Asia</td>
</tr>
<tr>
<td>GEOG 127</td>
<td>Geography Of Africa</td>
</tr>
<tr>
<td>GEOG 128</td>
<td>Geography Of Europe</td>
</tr>
<tr>
<td>GEOG 129A</td>
<td>Special Topics in Regional Geography A</td>
</tr>
<tr>
<td>GEOG 129B</td>
<td>Special Topics in Regional Geography B</td>
</tr>
<tr>
<td>GEOG 129C</td>
<td>Special Topics in Regional Geography C</td>
</tr>
<tr>
<td>GEOG 131</td>
<td>California</td>
</tr>
</tbody>
</table>

### Concentration

**Concentration Core Requirements**

Complete all of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 109</td>
<td>Geographic Information Systems</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>Advanced Geographic Information Systems</td>
</tr>
<tr>
<td>GEOG 150</td>
<td>Programming for GIS</td>
</tr>
<tr>
<td>GEOG 155</td>
<td>GIS Data Acquisition and Management</td>
</tr>
</tbody>
</table>

**Concentration Electives**

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 105</td>
<td>Cartography</td>
</tr>
<tr>
<td>GEOG 107</td>
<td>Remote Sensing</td>
</tr>
<tr>
<td>GEOG 151</td>
<td>Programming for GIS II</td>
</tr>
<tr>
<td>GEOG 163</td>
<td>Applied GIS</td>
</tr>
<tr>
<td>GEOG 181</td>
<td>Quantitative Methods in Geography</td>
</tr>
<tr>
<td>GEOG 182</td>
<td>Qualitative Methods in Geography</td>
</tr>
<tr>
<td>GEOG 195A</td>
<td>Geography Internship A</td>
</tr>
<tr>
<td>GEOG 199</td>
<td>Special Problems</td>
</tr>
</tbody>
</table>

One of GEOG 193A, GEOG 193B, or GEOG 193C

### General Education Requirements

**Area A: Basic Subjects (9 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area B: Physical Universe and Its Life Forms (9 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>2</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab Experience</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area C: Arts and Humanities (12 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area D: The Individual and Society (6 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area D</td>
<td>Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area E: Understanding Personal Development (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area E</td>
<td>Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area F: Ethnic Studies (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area F</td>
<td>Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units: 42**

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

### Graduation Requirements

**Graduation Requirements (required by CSU) (6 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Graduation Requirements (required by Sacramento State) (12 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

1 Course also satisfies General Education (GE)/Graduation Requirement.
Program Requirements

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement.

3 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

## BA in Geography (Human Geography)

**Units required for Major:** 46

**Total units required for BA:** 120

### Program Description

The Bachelor of Arts in Geography with a concentration in Human Geography examines how diverse human cultures and economies interact with natural environments to create distinctive places with unique achievements, challenges, and conflicts. Students acquire cross-cultural perspectives and knowledge relevant to globalization, international development, energy and other natural resource issues, hazards and disasters, migration and demography, and geopolitical situations.

**Note:**

- Every candidate must complete all of the Geography Core and one Concentration.
- Courses cannot double count for the core and the concentration.
- Students must take at least FOUR courses, with at least one each from Data Analysis and Data Output categories.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG</td>
<td>Physical Geography: The Distribution of Natural Phenomena ¹</td>
<td>3</td>
</tr>
<tr>
<td>GEOG</td>
<td>Cultural Geography ¹</td>
<td>3</td>
</tr>
<tr>
<td>GEOG</td>
<td>Introduction to Maps and Geographic Technologies</td>
<td>3</td>
</tr>
<tr>
<td>GEOG</td>
<td>Laboratory in Physical Geography</td>
<td>1</td>
</tr>
</tbody>
</table>

**Required Lower Division Core Courses (10 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG</td>
<td>Ideas and Skills in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG</td>
<td>Earth Transformed</td>
<td>3</td>
</tr>
<tr>
<td>GEOG</td>
<td>Senior Research Seminar in Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Upper Division Core Courses (9 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG</td>
<td>Geographical Techniques</td>
<td></td>
</tr>
<tr>
<td>GEOG</td>
<td>Computer Cartography</td>
<td></td>
</tr>
<tr>
<td>GEOG</td>
<td>Remote Sensing</td>
<td></td>
</tr>
</tbody>
</table>

**Geography Core (12 Units)**

Select one course from each of the following four areas:

- **Geographic Techniques**
  - GEOG 105 Computer Cartography
  - GEOG 107 Remote Sensing

**Total Units**

1 Course also satisfies General Education (GE)/Graduation Requirement.

### Concentrations (15 Units)

Select a concentration from the following:

- Geographic Information Systems and Analysis Concentration
- Human Geography Concentration
- Metropolitan Area Planning Concentration
- Physical Geography Concentration

**Total Units**

15

### Concentration in Human Geography (15 units)

**Units**

Select two additional human geography courses from the following:

- GEOG 141 Geography of Economic Activity
- GEOG 143 Environmental Hazards and Society
- GEOG 145 Population Geography ¹
GEOG 147  Urban Geography  
GEOG 148  Urban and Regional Planning  
GEOG 149  Transportation Geography  
GEOG 161  California’s Water Resources  
GEOG 163  Applied GIS

Select two additional regional geography courses from the following: 6
GEOG 121  United States and Canada  
GEOG 125  Geography Of East Asia  
GEOG 127  Geography Of Africa  
GEOG 128  Geography Of Europe  
GEOG 129A  Special Topics in Regional Geography A  
GEOG 129B  Special Topics in Regional Geography B  
GEOG 129C  Special Topics in Regional Geography C  
GEOG 131  California

Select one additional technique course from the following: 3
GEOG 105  Computer Cartography  
GEOG 107  Remote Sensing  
GEOG 109  Geographic Information Systems  
GEOG 110  Advanced Geographic Information Systems  
GEOG 150  Programming for GIS  
GEOG 151  Programming for GIS II  
GEOG 163  Applied GIS  
GEOG 181  Quantitative Methods in Geography  
GEOG 182  Qualitative Methods in Geography  
GEOG 193A  Field Geography: Urban-Metropolitan  
GEOG 193B  Field Geography: Suburban-Rural

Total Units 15

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 The technique cannot be a field course if a field course was taken for the core.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B3)</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2 - Area C Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Area D: The Individual and Society (3-6 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Area E: Understanding Personal Development (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area E Course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Area P: Ethnic Studies (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area F Course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Graduation Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

3 Students can meet upper division Area D by taking GEOG 145 in the Concentration Requirements.

**BA in Geography (Metropolitan Area Planning)**

Units required for Major: 46  
Total units required for BA: 120
Program Description
The Bachelor of Arts in Geography with a concentration in Metropolitan Area Planning helps students understand how cities have evolved, with an emphasis on spatial patterns and the role of transportation in structuring settlements. The concentration provides students with skills for designing cities that address important issues such as sustainability, affordable housing and transportation, a strong civic life, and public health and safety.

Note:
• Every candidate must complete all of the Geography Core and one Concentration.
• Courses cannot double count for the core and the concentration.
• Students must take at least FOUR courses, with at least one each from Data Analysis and Data Output categories.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 1</td>
<td>Physical Geography: The Distribution of Natural Phenomena 1</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2</td>
<td>Cultural Geography 1</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3</td>
<td>Introduction to Maps and Geographic Technologies</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 11</td>
<td>Laboratory in Physical Geography</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Upper Division Core Courses (9 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 102</td>
</tr>
<tr>
<td>GEOG 118</td>
</tr>
<tr>
<td>GEOG 190</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Geography Core (12 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one course from each of the following four areas: 12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Geographic Techniques</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 105</td>
</tr>
<tr>
<td>GEOG 107</td>
</tr>
<tr>
<td>GEOG 109</td>
</tr>
<tr>
<td>GEOG 110</td>
</tr>
<tr>
<td>GEOG 150</td>
</tr>
<tr>
<td>GEOG 151</td>
</tr>
<tr>
<td>GEOG 163</td>
</tr>
<tr>
<td>GEOG 181</td>
</tr>
<tr>
<td>GEOG 182</td>
</tr>
<tr>
<td>GEOG 193A</td>
</tr>
<tr>
<td>GEOG 193B</td>
</tr>
<tr>
<td>GEOG 193C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Human Geography</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 141</td>
</tr>
<tr>
<td>GEOG 143</td>
</tr>
<tr>
<td>GEOG 145</td>
</tr>
<tr>
<td>GEOG 147</td>
</tr>
<tr>
<td>GEOG 148</td>
</tr>
<tr>
<td>GEOG 149</td>
</tr>
<tr>
<td>GEOG 163</td>
</tr>
<tr>
<td>GEOG 181</td>
</tr>
<tr>
<td>GEOG 182</td>
</tr>
<tr>
<td>GEOG 193A</td>
</tr>
<tr>
<td>GEOG 193B</td>
</tr>
</tbody>
</table>

Total Units 49

1 Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in Metropolitan Area Planning (15 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 109</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 148</td>
<td>Urban and Regional Planning</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 141</td>
<td>Geography of Economic Activity or GEOG 145 Population Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 147</td>
<td>Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 149</td>
<td>Transportation Geography</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following technique elective courses: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 105</td>
<td>Computer Cartography</td>
<td></td>
</tr>
<tr>
<td>GEOG 107</td>
<td>Remote Sensing</td>
<td></td>
</tr>
<tr>
<td>GEOG 110</td>
<td>Advanced Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>GEOG 150</td>
<td>Programming for GIS</td>
<td></td>
</tr>
<tr>
<td>GEOG 151</td>
<td>Programming for GIS II (Course proposal is being submitted concurrently with program change proposal.)</td>
<td></td>
</tr>
<tr>
<td>GEOG 163</td>
<td>Applied GIS</td>
<td></td>
</tr>
<tr>
<td>GEOG 181</td>
<td>Quantitative Methods in Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 182</td>
<td>Qualitative Methods in Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 193A</td>
<td>Field Geography: Urban-Metropolitan 1</td>
<td></td>
</tr>
<tr>
<td>GEOG 193B</td>
<td>Field Geography: Suburban-Rural 1</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 15
The technique cannot be a field course if a field course was taken for the core.

**Additional Recommended Courses**
The courses below provide valuable additional knowledge and perspectives for students choosing the MAP concentration:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 132</td>
<td>State and Local Government Finance</td>
<td>3</td>
</tr>
<tr>
<td>ECON 180</td>
<td>Urban Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENV 122</td>
<td>Environmental Impact Analysis: CEQA and NEPA</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 131</td>
<td>California</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 161</td>
<td>California’s Water Resources</td>
<td>3</td>
</tr>
<tr>
<td>HIST 163</td>
<td>The City in US History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 184</td>
<td>California Architecture and Urban History</td>
<td>3</td>
</tr>
<tr>
<td>ART 118B</td>
<td>Management of Recreation Facilities</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Course also satisfies General Education (GE)/Graduation Requirement.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>3</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area D: The Individual and Society (3-6 Units)</td>
<td></td>
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</tr>
<tr>
<td>Area D Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area D Course</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
<td></td>
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</tr>
<tr>
<td>Area E Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area F: Ethnic Studies (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area F Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Graduation Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement.

3 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

**BA in Geography (Physical Geography)**

Units required for Major: 46
Total units required for BA: 120

**Program Description**
The Bachelor of Arts in Geography with a concentration in Physical Geography focuses on earth systems and human impacts on them, including global climate change. Students interested in natural science and environmental management study weather and climate, plant and animal communities, landforms, and water resources, emphasizing the growing human role in influencing and managing these complex interrelated systems.

**Note:**
• Every candidate must complete all of the Geography Core and one Concentration.
• Courses cannot double count for the core and the concentration.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 1</td>
<td>Physical Geography: The Distribution of Natural Phenomena ¹</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2</td>
<td>Cultural Geography ¹</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3</td>
<td>Introduction to Maps and Geographic Technologies</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 11</td>
<td>Laboratory in Physical Geography</td>
<td>1</td>
</tr>
</tbody>
</table>

Required Upper Division Core Courses (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 102</td>
<td>Ideas and Skills in Geography</td>
</tr>
<tr>
<td>GEOG 118</td>
<td>Earth Transformed</td>
</tr>
<tr>
<td>GEOG 190</td>
<td>Senior Research Seminar in Geography ²</td>
</tr>
</tbody>
</table>

Geography Core (12 Units)

Select one course from each of the following four areas:

Geographic Techniques

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 105</td>
<td>Computer Cartography</td>
</tr>
<tr>
<td>GEOG 107</td>
<td>Remote Sensing</td>
</tr>
<tr>
<td>GEOG 109</td>
<td>Geographic Information Systems</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>Advanced Geographic Information Systems</td>
</tr>
<tr>
<td>GEOG 163</td>
<td>Applied GIS</td>
</tr>
<tr>
<td>GEOG 150</td>
<td>Programming for GIS</td>
</tr>
<tr>
<td>GEOG 151</td>
<td>Programming for GIS II</td>
</tr>
<tr>
<td>GEOG 182</td>
<td>Qualitative Methods in Geography</td>
</tr>
<tr>
<td>GEOG 181</td>
<td>Quantitative Methods in Geography</td>
</tr>
<tr>
<td>GEOG 193A</td>
<td>Field Geography: Urban-Metropolitan</td>
</tr>
<tr>
<td>GEOG 193B</td>
<td>Field Geography: Suburban-Rural</td>
</tr>
<tr>
<td>GEOG 193C</td>
<td>Field Geography: Physical</td>
</tr>
</tbody>
</table>

Human Geography

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 141</td>
<td>Geography of Economic Activity</td>
</tr>
<tr>
<td>GEOG 143</td>
<td>Environmental Hazards and Society</td>
</tr>
<tr>
<td>GEOG 145</td>
<td>Population Geography</td>
</tr>
<tr>
<td>GEOG 147</td>
<td>Urban Geography</td>
</tr>
<tr>
<td>GEOG 148</td>
<td>Urban and Regional Planning</td>
</tr>
<tr>
<td>GEOG 149</td>
<td>Transportation Geography</td>
</tr>
<tr>
<td>GEOG 163</td>
<td>Applied GIS</td>
</tr>
</tbody>
</table>

Physical Geography

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 111</td>
<td>Elements Of Meteorology ¹</td>
</tr>
<tr>
<td>GEOG 115</td>
<td>Biogeography ¹</td>
</tr>
<tr>
<td>GEOG 116</td>
<td>Global Climate Change ¹</td>
</tr>
<tr>
<td>GEOG 117</td>
<td>Landforms</td>
</tr>
<tr>
<td>GEOG 161</td>
<td>California’s Water Resources</td>
</tr>
</tbody>
</table>

Regional Geography

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 121</td>
<td>United States and Canada</td>
</tr>
<tr>
<td>GEOG 125</td>
<td>Geography Of East Asia</td>
</tr>
<tr>
<td>GEOG 127</td>
<td>Geography Of Africa</td>
</tr>
<tr>
<td>GEOG 128</td>
<td>Geography Of Europe</td>
</tr>
</tbody>
</table>

Concentrations (15 Units)

Select a concentration from the following:

- Geographic Information Systems and Analysis Concentration
- Human Geography Concentration
- Metropolitan Area Planning Concentration
- Physical Geography Concentration

Total Units: 46

¹ Course also satisfies General Education (GE)/Graduation Requirement.
² The technique cannot be a field course if a field course was taken for the core.

Concentration in Physical Geography (15 units)

Select four additional physical geography courses from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 111</td>
<td>Elements Of Meteorology ¹</td>
</tr>
<tr>
<td>GEOG 115</td>
<td>Biogeography ¹</td>
</tr>
<tr>
<td>GEOG 116</td>
<td>Global Climate Change ¹</td>
</tr>
<tr>
<td>GEOG 117</td>
<td>Landforms</td>
</tr>
<tr>
<td>GEOG 161</td>
<td>California’s Water Resources</td>
</tr>
<tr>
<td>GEOG 193C</td>
<td>Field Geography: Physical ²</td>
</tr>
</tbody>
</table>

Select one additional technique course from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 105</td>
<td>Computer Cartography</td>
</tr>
<tr>
<td>GEOG 107</td>
<td>Remote Sensing</td>
</tr>
<tr>
<td>GEOG 109</td>
<td>Geographic Information Systems</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>Advanced Geographic Information Systems</td>
</tr>
<tr>
<td>GEOG 163</td>
<td>Applied GIS</td>
</tr>
<tr>
<td>GEOG 181</td>
<td>Quantitative Methods in Geography</td>
</tr>
</tbody>
</table>

Total Units: 15

¹ Course also satisfies General Education (GE)/Graduation Requirement.
² The technique cannot be a field course if a field course was taken for the core.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
</tr>
</tbody>
</table>

Area B: Physical Universe and Its Life Forms (6-9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>Physical Science ²</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: ²</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
</tr>
</tbody>
</table>

¹ Course also satisfies General Education (GE)/Graduation Requirement.
² The technique cannot be a field course if a field course was taken for the core.
Certificate in Pre-Planning

Units required for Certificate: 15-16

Program Description
The Pre-Planning program consists of 15-16 units in addition to the major and culminates in a certificate. Select either the Metropolitan or Resource Planning Concentration below. No more than two courses may be taken in any one department.

Students must have an advisor and will not be allowed to proceed in the program without an advisor’s signature. In some cases courses may be accepted that have already been completed. There can be no double counting from among courses used in the major.

Program Requirements

Metropolitan Planning

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select five of the following:</td>
<td></td>
</tr>
<tr>
<td>ECON 104</td>
<td>Introduction to the United States Economy</td>
<td>15</td>
</tr>
<tr>
<td>ECON 120</td>
<td>Economics and Environmental Degradation</td>
<td></td>
</tr>
<tr>
<td>GEOG 109</td>
<td>Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>GEOG 145</td>
<td>Population Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 147</td>
<td>Urban Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 148</td>
<td>Urban and Regional Planning</td>
<td></td>
</tr>
<tr>
<td>GEOG 149</td>
<td>Transportation Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 161</td>
<td>California’s Water Resources</td>
<td></td>
</tr>
<tr>
<td>HIST 163</td>
<td>The City in US History</td>
<td></td>
</tr>
<tr>
<td>POLS 170</td>
<td>Public Policy Development</td>
<td></td>
</tr>
<tr>
<td>POLS 180</td>
<td>California State and Local Government</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 15

Resource Planning

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Select five of the following:</td>
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</tr>
<tr>
<td>ECON 120</td>
<td>Economics and Environmental Degradation</td>
<td>16</td>
</tr>
<tr>
<td>GEOG 109</td>
<td>Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>GEOG 117</td>
<td>Landforms</td>
<td></td>
</tr>
<tr>
<td>GEOG 161</td>
<td>California’s Water Resources</td>
<td></td>
</tr>
<tr>
<td>GEOL 10</td>
<td>Physical Geology</td>
<td></td>
</tr>
<tr>
<td>POLS 170</td>
<td>Public Policy Development</td>
<td></td>
</tr>
<tr>
<td>POLS 180</td>
<td>California State and Local Government</td>
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</tr>
<tr>
<td>HRRO 101</td>
<td>The Management of Contemporary Organizations</td>
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</table>

Total Units: 15-16

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (6 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
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Total Units: 6

Graduation Requirements (required by Sacramento State) (12 Units)

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Proficiency Requirement</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Units: 12

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement.

3 Students can complete Area B5 by taking GEOG 111, GEOG 115, or GEOG 116 in their Concentration Requirements.

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

3 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-litersatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-litersatures/foreign-language-requirement.html)
Minor in Geographic Information Science

Units required for Minor: 18

Program Description

Geography students at Sacramento State explore Earth’s natural and cultural environments using methods from the natural sciences and the social sciences. They study climate, weather, landforms, water resources, and plants and animals, as well as peoples, societies, economies, and cities. These phenomena overlap in intricate ways, giving rise to distinctive places and regions. Geography’s approach emphasizes Earth’s spatial relationships and patterns, and the processes that govern them, whether found in nature or in human behavior.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 3</td>
<td>Introduction to Maps and Geographic Technologies</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 109</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>Advanced Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 150</td>
<td>Programming for GIS</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 155</td>
<td>GIS Data Acquisition and Management</td>
<td>3</td>
</tr>
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</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 105</td>
<td>Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 107</td>
<td>Remote Sensing</td>
<td></td>
</tr>
<tr>
<td>GEOG 151</td>
<td>Programming for GIS II</td>
<td></td>
</tr>
<tr>
<td>GEOG 163</td>
<td>Applied GIS</td>
<td></td>
</tr>
<tr>
<td>GEOG 181</td>
<td>Quantitative Methods in Geography</td>
<td></td>
</tr>
</tbody>
</table>

Three units of upper division GIS coursework from another department with permission of the GIS Minor advisor.

Total Units: 18

1 Courses must be selected in consultation with and approved by a faculty advisor in Geography. A minimum of 6 upper division units must be earned in residence.

Minor in Geography

Units required for Minor: 18

Program Description

Geography students at Sacramento State explore Earth’s natural and cultural environments using methods from the natural sciences and the social sciences. They study climate, weather, landforms, water resources, and plants and animals, as well as peoples, societies, economies, and cities. These phenomena overlap in intricate ways, giving rise to distinctive places and regions. Geography’s approach emphasizes Earth’s spatial relationships and patterns, and the processes that govern them, whether found in nature or in human behavior.

Program Requirements

Select two of the following lower division courses: 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 1</td>
<td>Physical Geography: The Distribution of Natural Phenomena</td>
<td>6</td>
</tr>
<tr>
<td>GEOG 2</td>
<td>Cultural Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 3</td>
<td>Introduction to Maps and Geographic Technologies</td>
<td></td>
</tr>
</tbody>
</table>

Select a minimum of 9 upper division Geography units, excluding the following: 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 193C</td>
<td>Field Geography: Physical</td>
<td></td>
</tr>
<tr>
<td>GEOG 194</td>
<td>Geography - Related Work Experience</td>
<td></td>
</tr>
<tr>
<td>GEOG 198</td>
<td>Co-Curricular Activities</td>
<td></td>
</tr>
<tr>
<td>GEOG 199</td>
<td>Special Problems</td>
<td></td>
</tr>
</tbody>
</table>

Select three additional units in Geography, either lower division or upper division 1

Total Units: 18

1 Courses must be selected in consultation with and approved by a faculty advisor in Geography. A minimum of 6 upper division units must be earned in residence.

Geology

College of Natural Sciences and Mathematics

Program Description

Geology is the study of the earth, its environments, and its history. It is an interdisciplinary science that combines geological observations and concepts with those of biology, chemistry, physics, and mathematics. Its goals are to study rocks, minerals, fossils, and energy and water resources, and to understand geologic principles and processes that shape the earth and its environments.

The Sacramento State Geology program has three objectives:

1. to encourage students to think scientifically,
2. to provide students with the knowledge base to make progress in geology after leaving Sacramento State, and
3. to teach students basic skills such as using a petrographic microscope and field equipment, how to construct a geologic map, and how to write a technical geologic report.

The BA degree program is designed as a shorter, more flexible preparation for some geology jobs, earth science teaching in high school (see Teaching Credential), and jobs such as park naturalist, environmentalist, geologic planning specialist, or in geology-related businesses. The BA degree can be used in dual-track majors combining geology with biological sciences, chemistry, physics, or engineering.

The BS degree program is designed to be the best possible preparation for advanced work in geology in graduate school or for professional employment as a geologist. The Geology program offers a strong background in the major areas of geology including: mineralogy, petrology, paleontology, stratigraphy, structural geology, field mapping, hydrogeology, and report writing.
Degree Programs

BA in Earth Science (p. 877)
BA in Geology (p. 877)
BS in Geology (p. 878)
BS in Geology (Hydrogeology) (p. 880)
Minor in Geology (p. 881)
MS in Geology (p. 881)

Special Features

- Among the greatest attractions for studying geology at Sacramento State is the University’s location in a dynamic geologic environment; just 70 miles to the west is the San Francisco Bay Area and the San Andreas fault. About equidistant to the east is the magnificent Sierra Nevada mountain range. The active geology faculty conducts field trips in almost every course in the Geology major, providing excellent opportunities for students to learn field skills and to apply classroom knowledge to field situations.
- A small student/teacher ratio, plus a rigorous course of study, contributes to the excellent reputation of the Sacramento State Geology Department with employers and graduate schools. Contact the Department office for assistance in obtaining a faculty advisor.
- The Geology Department operates the largest on-campus well field in the nation, with twenty engineered wells for teaching and student research. The well field is complemented by a comprehensive collection of state-of-the-art geophysical and hydrological field equipment.
- The Geology Department shares Placer Hall with the United States Geological Survey (USGS). Students benefit from this unique collaborative enterprise between a university and a federal agency because of the educational, research, and employment opportunities provided by the combined scientific and educational resources of the Geology Department and the USGS.
- Students interested in marine geology may take courses at Moss Landing Marine Laboratories at Moss Landing, CA, 180 miles from the Sacramento State campus. The labs and available courses are described under the Marine Sciences section of this catalog. A program including Moss Landing courses may be formulated with a Geology advisor. Such a program usually requires living in or near Moss Landing for one or more semesters.

Career Possibilities

Geologist · Geophysicist · Groundwater Geologist · Oil and Gas Geologist · Mineralogist · Paleontologist · Marine Geologist · Environmental Geologist · Photogeologist · Seismologist · Consulting Geologist · Soils Engineer · Land Use Planner · Volcanologist · Astrogeologist · Geochemist · Economic Geologist · Mining Geologist · Hydrologist · Government Geologist · Coal Geologist · Glacial Geologist · Vertebrate Paleontologist · Geology Professor · Earth Science Teacher

Department of Geology Website (http://www.csus.edu/geology/)

Faculty

BURMEISTER, KURTIS
GRIFFIN, JULIE
HAMERSLEY, LISA
HAUSBACK, BRIAN P.
SHIMABUKURO, DAVID
SKINNER, STEVEN
VANKEUREN, AMELIA
WAGNER, AMY

GEOL 5. Geology Of Mexico. 4 Units
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring

Introduction to Geology through examination of aspects of the geology of Mexico. Emphasizes problem-based approach to learning Geology and the process of scientific investigation. Topics include a wide range of geological concepts including plate tectonic setting of Mexico, living with volcanoes: the Mexican volcanic belt, the Mexico City earthquake, issues of water supply, flooding and atmospheric pollution in Mexico City, the Chicxulub crater and geologic time, ore deposits of Mexico. Lecture three hours; laboratory three hours.

GEOL 5A. Geology of Mexico Field Trip. 2 Units
Prerequisite(s): GEOL 5
Term Typically Offered: Fall, Spring

Focuses on fundamental geologic concepts as seen from real world examples in Mexico that will be visited during several strategic field stops. Field stops will emphasize a problem-based approach to learning geology and the process of scientific investigation. Topics include a wide range of geological concepts including plate tectonic setting of Mexico, living with volcanoes, the Mexico City earthquake, issues of water supply, flooding, climate change and atmospheric pollution in Mexico City, the Chicxulub meteor impact crater, geologic time, ore deposits of Mexico, and natural hazards. Field trip ten days. Field trip(s) may be required.

GEOL 7. Natural Disasters. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Examination of earth materials and earth processes through the study of natural disasters. Topics include earthquakes, volcanoes, landslides, floods, tsunamis, hurricanes, tornadoes and meteorite impacts. Examination of causes, effects and mitigation of natural disasters.

Contact Information

Amy Wagner, Department Chair
Amie Bright, Administrative Support Coordinator
Placer Hall 2003
(916) 278-6337
geology@csus.edu
GEOL 8. Earth Science. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

Earth and its neighbors in space. Scientific method and discovery in the study of stars, planets, weather, rivers, glaciers, oceans, rocks, volcanoes, earthquakes, landslides, mountains, drifting continents, the earth in time. Note: Students contemplating a geology major or minor in geology should enroll in GEOL 10, not GEOL 8. No credit for those who have taken GEOL 10 or equivalent.

GEOL 8L. Earth Science Lab. 1 Unit
Prerequisite(s): GEOL 8; may be taken concurrently.
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring

Emphasizes scientific methods and systematic laboratory procedures. Includes weather analysis, rock and mineral identification, study of geologic concepts by means of topographic maps, and exercises in astronomy and oceanography. Laboratory three hours.

GEOL 8T. Earth Science Lab for Teachers. 1 Unit
Prerequisite(s): GEOL 8; may be taken concurrently.
Term Typically Offered: Fall, Spring

Exploration of the solid Earth, its atmosphere and oceans, and the Earth's place in the solar system. Emphasizes learning Earth science through investigation, and uses Earth science to understand the processes of science. Laboratory three hours.

GEOL 10. Physical Geology. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Rocks and their mineral constituents, geological processes such as weathering, erosion, glaciation, mountain building, etc., volcanoes, earthquakes, folds, faults, the earth's interior, plate tectonics and earth resources. Field trip. Fee course. Fee course. Field trip(s) may be required.

GEOL 10L. Physical Geology Lab. 1 Unit
Prerequisite(s): GEOL 10; may be taken concurrently.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring

Laboratory supplement to GEOL 10. Emphasizes scientific method and systematic laboratory procedures. Identification of common minerals and rocks. Introduction to and analysis of topographic and geologic maps. Field trip. Laboratory three hours. Fee course. Fee course. Field trip(s) may be required.

GEOL 11. Digital Methods in Geoscience. 1 Unit
Prerequisite(s): GEOL 5 or GEOL 10/10L. GEOL 10L can be taken concurrently.
Term Typically Offered: Fall, Spring

Introductory course to the basic computing needs to be successful in the geosciences. Topics include Microsoft Office, Adobe Suite and reference software.

GEOL 12. Historical Geology. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L.
Term Typically Offered: Fall, Spring

Origin and geological history of the earth and the evolution of its animal and plant inhabitants. Fee course.

Note: Lecture 3 hours.

GEOL 12L. Historical Geology Lab. 1 Unit
Prerequisite(s): GEOL 12; and GEOL 5 or GEOL 10 and GEOL 10L. GEOL 12 may be taken concurrently.
Term Typically Offered: Fall, Spring

Supplements GEOL 12. Use of sedimentary rocks, fossils, geologic maps, and structural sections in interpreting ancient environments, tectonic settings, and geologic history. Age relations and correlation of rock and time-rock units. Introduction to fossil identification and biostratigraphy. Laboratory three hours.

GEOL 100. Earth Materials - Rocks and Minerals. 4 Units
Prerequisite(s): CHEM 1A, GEOL 5 or GEOL 10/10L, and GEOL 10 (GEOL 12 can be taken concurrently) Field Trip.
Term Typically Offered: Fall, Spring

Properties and identification of minerals and rocks; rock formation and the rock cycle. Lecture three hours; laboratory three hours; field trip. Field trip(s) may be required.

GEOL 101. Optical Mineralogy. 2 Units
Prerequisite(s): CHEM 1A, GEOL 5 or GEOL 10 + GEO 10L, GEOL 100 (GEOL 100 can be taken concurrently)
Term Typically Offered: Fall, Spring

Introduction to advanced mineral identification by physical and optical properties. Techniques and theory of optical mineral analysis and crystallography. Lecture 1 hour; laboratory 3 hours.

GEOL 102. Igneous and Metamorphic Petrology. 4 Units
Prerequisite(s): GEOL 100 and GEOL 103
Term Typically Offered: Fall, Spring

Study of the origin, evolution, occurrence, geochemistry, dynamics and physical characteristics of igneous and metamorphic systems. The laboratory will focus on both hand-specimen and petrographic-microscope studies. Lecture three hours, laboratory three hours. Fee course. Fee course.

GEOL 103. Sedimentology/Stratigraphy. 4 Units
Prerequisite(s): GEOL 12, GEOL 12L, and GEOL 100
Term Typically Offered: Spring only

Compositions, textures, classification, origins and structures of sediments and sedimentary rocks. Hand specimen observation and interpretation. Facies models, classification and correlation of stratigraphic units, subsurface techniques. Lab emphasizes hand specimen and microscope identification and subsurface techniques. Field trip. Lecture three hours; laboratory three hours. Fee course. Fee course. Field trip(s) may be required.
GEOL 105. Paleontology. 4 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, GEOL 12 and GEOL 12L.
Term Typically Offered: Spring only

Biology, evolution, classification and paleoecology of important groups of fossil organisms. Uses of fossils in solving geologic problems.

Note: Lecture = 3 units; Lab = 1 unit. Fee Course. Field Trip.

GEOL 110A. Structural Geology and Tectonics. 4 Units
Prerequisite(s): GEOL 111A and GEOL 111B, PHYS 5A or PHYS 11A, MATH 26A or MATH 30.
Term Typically Offered: Fall, Spring

Description, analysis and interpretation of geologic structures and tectonic settings. Theory of stress and strain as it pertains to the origin of folds, faults, joints, cleavage, and other structural elements. Laboratory includes techniques of structural analysis such as orthographic projections, stereonets, structure contours, Mohr diagrams, interpretation of maps and cross sections. Lecture three hours, laboratory three hours. Fee Course. Fee course.

GEOL 110B. Structural Geology Field. 1 Unit
Prerequisite(s): GEOL 103, GEOL 111A, GEOL 111B, and GEOL 110A. It is recommended that GEOL 110A be taken concurrently.
Term Typically Offered: Fall, Spring

Field description, mapping and interpretation of geologic structures. Includes techniques of taking detailed field notes, field photography measurement of structures using a pocket transit, geologic map and cross section construction, stereonet analysis, and report writing. Consists of off-campus fieldwork. Fee course.

GEOL 111A. Field Geology. 2 Units
Prerequisite(s): GEOL 12L and GEOL 100
Corequisite(s): GEOL 111B
Term Typically Offered: Spring only

Science and art of recognizing, describing and interpreting geologic features in the field. Lecture and laboratory course on the preparation and use of topographic and geologic maps, stratigraphic and cross sections, compass and GPS instrument. Lecture one hour; laboratory three hours. Fee course.

GEOL 111B. Field Techniques. 2 Units
Prerequisite(s): GEOL 100 and GEOL 103. GEOL 103 may be taken concurrently.
Corequisite(s): GEOL 111A
Term Typically Offered: Spring only

Introduction to geologic field methods including descriptions of rocks, geologic mapping, observation, interpretation and geologic report writing. Detailed mapping techniques will also be covered; these may include the use of plane table, total station theodolite and global position systems. Consists of off-campus fieldwork. Fee course.

GEOL 112. Geophysics For Geologists. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, PHYS 5A, PHYS 5B which may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to the principal geophysical concepts and techniques useful to geologists in the study of tectonics, the Earth's interior and resource exploration. Includes the study of seismology, heat flow, gravity, borehole geophysics, electromagnetism and geodynamics. Fee Course/Field Trip. Fee course.

GEOL 113. Geology of California. 4 Units
Prerequisite(s): GEOL 100; May be taken concurrently.
Term Typically Offered: Fall, Spring

Regional study of California and certain surrounding areas with regard to geologic development, plate tectonics, economic resources and geologic hazards. Lecture and field trip(s). Fee course. Field trip student fee.

GEOL 114. Volcanology. 3 Units
Prerequisite(s): GEOL 100; May be taken concurrently.
Term Typically Offered: Fall, Spring

An advanced exploration of physical volcanic processes, chemistry of magmas, interpretation of volcanic deposits, historic eruptions and volcanic hazard assessment.

Note: Field trip. Weekend field trip to volcanic areas (typically in California). Fee course. Field trip student fee.

GEOL 115. Volcanoes: An Introduction. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

An introductory to volcanoes including volcanic landforms, eruption styles, properties of magma, and volcanic hazards/ mitigation.

GEOL 120. Surficial Processes. 4 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L; GEOL 12, GEOL 12L.
Term Typically Offered: Fall, Spring

Focused study on the basic forces that drive surficial processes such as wind water and gravity and the role of weathering, sediment transport and deposition on landform and landscape development. A laboratory component will enhance student understanding by solving applied problems as well as develop proficiencies with various geologic tools.

Note: 150 minutes Lecture = 3 units, 150 minutes Lab = 1 unit. Fee Course.

GEOL 121. Geology of California. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10.
Term Typically Offered: Fall, Spring

Regional study of California and certain surrounding areas with regard to geologic development, plate tectonics, economic resources and geologic hazards. Lecture and field trip(s). Fee course. Fee course.

GEOL 122. Hydrology Research Experience. 3 Units
Hydrology research and professional development experience. Students will learn hypothesis development and testing, data interpretation, and science communication skills focusing on data collected during a summer Hydrology field experience. Students will also learn about Hydrology career paths, apply for internships, and present research findings. Students must participate in the summer Hydrology field experience prior to taking this class.

GEOL 123. Hydrogeology. 3 Units
Prerequisite(s): GEOL 122.
Term Typically Offered: Spring only

Introduction to hydrogeology, including hydrogeologic processes, groundwater flow, geologic materials, and groundwater modeling. Laboratory work includes field measurement, data analysis, and computer simulations.
GEOL 123. Geochemistry. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, CHEM 1A.
Term Typically Offered: Fall, Spring
Fundamentals of the geochemistry of Earth materials. Thermodynamics and kinetics of geological environments, silicates and carbonates, major element geochemistry, trace and rare earth element geochemistry, stable and radiogenic isotopes. Applications to studies of aqueous, pedogenic, igneous, sedimentary, and metamorphic environments. Analysis of geochemical aspects of contemporary resource, environmental, and paleoenvironmental problems.

GEOL 125. Metallic Ore Deposits. 3 Units
Prerequisite(s): GEOL 100, CHEM 1A.
Term Typically Offered: Fall, Spring
Fee course.
Field trip(s) may be required.

GEOL 126. Environmental Field Methods. 3 Units
Prerequisite(s): GEOL 10 or GEOL 10L or instructor permission.
Field analysis of the local environment, including soil and water systems. Students will learn monitoring design, sample collections, sample analysis, data interpretation, and presentation methodologies for environmental geology applications.

GEOL 127. Hydrogeology. 4 Units
Prerequisite(s): CHEM 1A, GEOL 10, GEOL 10L, PHYS 5A, and MATH 26A or MATH 30, or instructor permission.
Term Typically Offered: Spring only
Presents fundamentals of groundwater flow, as influenced by topography and geology; geological aspects of groundwater supply, contamination, remediation, and protection of hydrogeological regions of the U.S. and their critical groundwater issues. Lecture three hours; laboratory three hours. Lecture three hours.

GEOL 130. Oceanography. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer
Survey of geological, physical, chemical and biological oceanography including the sea floor; waves, tides, currents; the physical and chemical properties of seawater and their distribution in the sea; planktonic life and its relation to nutrients.

GEOL 132. Marine Geology. 3 Units
Prerequisite(s): GEOL 10 and GEOL 10L or GEOL 12 and GEOL 12L
Term Typically Offered: Spring only
Origin, structure and evolution of the ocean basins and their margins. Topics covered will include marine sediments, seafloor bathymetry, seismic stratigraphy, sea level history, and marine micropaleontology.
Fee course.
Field trip: Weekend trip to Moss Landing, California to collect marine samples.
Fee course.
Field trip(s) may be required.

GEOL 140. Geology and the Environment. 3 Units
Prerequisite(s): GEOL 10 or another physical geology course approved by instructor; Field Trip, 2 units. Fee course.
Term Typically Offered: Fall, Spring
Applies geologic data and principles to situations affecting our environment. The geologic study of earthquakes, volcanoes, floods, landslides, groundwater and similar topics supplies the background data for lectures on land use and other social choices. Topics such as geopolitics and mineral supply provide a basis for understanding international politics, social costs, and world economics. Fee course.

GEOL 150. Computer Mapping in Geology. 3 Units
Prerequisite(s): GEOG 109 or instructor permission
Term Typically Offered: Fall, Spring
This course is designed to enhance the mapping skills of geology majors by providing them an opportunity to learn modern computer aided mapping techniques - methods and tools widely used across industry, government, and academia. The course is designed to teach students how to effectively use various tools and mapping software by applying their developing skills in solving a variety of geological problems. This course strategy will help develop both student technical map making and innovative problem solving skills.

GEOL 170. Age of Dinosaurs. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
Applies to the fundamental principles of geology, biology, and ecology to understanding the evolution of the Mesozoic world. Emphasis is placed on the nature and evolution of dinosaurs in the context of global regional changes in the Mesozoic ecosystem. Included are considerations of the data, methods, and uncertainties in paleontology and other historical sciences.

GEOL 171. Petroleum Geology. 3 Units
Prerequisite(s): PHYS 5A & GEOL 103. GEOL 103 may be taken concurrently.
Term Typically Offered: Fall, Spring
Introduction to the origin, migration, and accumulation of hydrocarbons in the context of stratigraphic and structural systems. Exploration and production of both conventional and unconventional resources. Lecture three hours. Field trip. Fee Course.
Field trip(s) may be required.

GEOL 177. Hawaii Volcanic Field Trip. 2 Units
Prerequisite(s): Geology 10 or another physical geology course approved by instructor; Field Trip, 2 units. Fee course.
Term Typically Offered: Fall, Spring
An investigation and visit to the many interesting volcanic features and eruption activities of Hawaiian volcanism. Topics include tectonics, physical volcanology, and volcanic monitoring techniques.
Credit/No Credit
Fee course.
GEOL 180. Water Planet. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Investigating the physical processes that control water movement and supply across the planet. Subjects include the hydrological cycle, oceans, waves and tides, fisheries, water in the atmosphere, water and wildfire, landslides, river systems, groundwater and water quality, water management, and the future of water resources on a changing planet.

GEOL 184. Geological Field Trip. 2 Units
Term Typically Offered: Fall only

10-day field trip to a region of outstanding geology. Attendance at preliminary meetings is required. Analyzes and interpretation of geologic features is emphasized. Fee course.

Note: Student should consult the Geology Department during the semester before planning to take the course. May be taken more than once for credit.

Credit/No Credit
Fee course.
Field trip(s) may be required.

GEOL 188. Advanced Geologic Mapping. 6 Units
Prerequisite(s): GEOL 102, GEOL 103, GEOL 110A, GEOL 110B, GEOL 111A, GEOL 111B and instructor permission.
Term Typically Offered: Fall, Spring

Advanced principles/methods of geologic mapping, interpretation and geologic report writing for selected field areas in the western United States. Mapping techniques include the use of aerial photographs and global position systems. Consists of on-campus field preparation and off-campus fieldwork. Fee course.

Fee course.

GEOL 189. Geology Colloquium. 1 Unit
Term Typically Offered: Fall, Spring

Students will attend and participate in the joint Geology, Environmental Studies, Ecology weekly colloquium series and will be exposed to a variety of geologic and environmental topics. Speakers include those from CSUS, the USGS, government and professional organizations, and other academic institutions. Topics and speakers vary each semester.

Note: This course must be taken twice.

Credit/No Credit

GEOL 190A. Geology and Tectonic Development of California Seminar. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10, GEOL 12; GEOL 110A recommended.
Term Typically Offered: Fall, Spring

Seminar in the geologic and tectonic development of California.

GEOL 193C. Engineering Geology. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, GEOL 12, PHYS 5A or PHYS 11A, MATH 29 or high school trigonometry.
Term Typically Offered: Fall, Spring

Investigates the engineering properties of earth materials, the engineering considerations required to build safe and durable structures on and within the Earth, and problems associated with structures designed and built neglecting physical environmental conditions. Designed to introduce engineering concepts to students who have a competent grasp of general geologic principles and processes. Lecture 3 hours.

GEOL 195. Geology Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised unpaid work experience in government or industry. Supervision is provided by the faculty instructor and responsible officials in the work situations.

Note: Open to all upper division Geology majors with instructor permission. Number of units earned depends on number of hours worked.

Credit/No Credit

GEOL 196C. Introduction to Volcanoes Field Trip. 1 Unit
Prerequisite(s): GEOL 115, can be taken concurrently.
Term Typically Offered: Fall, Summer

3-day field trip to regional volcanic sites such as Lassen Volcanic National Park. Course emphasizes analysis and interpretation of volcanic features as well as the impact of volcanic hazards on humans and society. Attendance at preliminary meetings is required. Fee course.

Prerequisite: GEOL 115, can be taken concurrently
Credit/No Credit
Fee course.
Field trip(s) may be required.

GEOL 197. Advanced Laboratory Techniques for Geology. 1 - 3 Units
Prerequisite(s): Appropriate upper division courses and instructor permission.
Term Typically Offered: Fall, Spring

Supervised individual instruction on techniques applied in geology laboratories for advanced research in mineralogy, petrology, geochemistry, geophysics, and paleontology.

Credit/No Credit

GEOL 198A. Senior Research Preparation. 1 Unit
Prerequisite(s): Senior status and appropriate courses as determined by a Departmental faculty committee. The proposed project must be approved by a Department committee; instructor permission.
Term Typically Offered: Fall, Spring

Selection and design of an independent research project. A final written report is required and includes: research proposal, bibliography, and results of preliminary review of the literature. Student must choose a supervising instructor.
GEOL 198B. Senior Research Project. 2 Units  
Prerequisite(s): Senior status and appropriate courses as determined by a Departmental faculty committee. The proposed project must be approved by the Department faculty committee; instructor permission.  
Term Typically Offered: Fall, Spring  
Completion of an independent research project. A final written report is required. Progress reports may be required by the supervision instructor. Presentation of an oral report on the research project during the same semester is required. 

GEOL 199A. Beginning Special Problems. 1 - 3 Units  
Term Typically Offered: Fall, Spring  
Individual projects or special studies at a beginning level, including fieldwork, lab work, library study, or other learning activities.  
Note: Open only to students judged competent to carry on individual work. Credit/noncredit grading also available. 

GEOL 199B. Intermediate Special Problems. 1 - 3 Units  
Individual projects or special studies at an intermediate level, including fieldwork, lab work, library study, or other learning activities.  
Note: Open only to students judged competent to carry on individual work. Credit/noncredit grading also available. 

GEOL 199C. Advanced Special Problems. 1 - 3 Units  
Individual projects or special studies at an advanced level, including fieldwork, lab work, library study, or other learning activities.  
Note: Open only to students judged competent to carry on individual work. Credit/noncredit grading also available. 

GEOL 200. Graduate Research Methods Seminar. 3 Units  
Term Typically Offered: Fall, Spring  
Developing a research proposal, library and internet searches, seeking external funding, presentation graphics, and publication formats. Students will develop a research project in preparation for thesis requirement. Seminar three hours.  
Note: Graduate Writing Intensive (GWI). 

GEOL 201. Seminar in Petrology. 3 Units  
Prerequisite(s): GEOL 102, GEOL 103, graduate-level status in Geology, or instructor permission.  
Term Typically Offered: Fall, Spring  
Advanced study of petrology. Topics may include the origin and evolution of igneous/metamorphic/sedimentary rocks in different tectonic settings; application of advanced petrologic tools to explore current research questions including rock and mineral chemistry, optical analysis, geochronology, thermochronology.  
Note: This course requires one or more field trips. May be taken for credit multiple times if covering different topics. 
Field trip(s) may be required. 

GEOL 202. Aqueous Geochemistry. 3 Units  
Prerequisite(s): CHEM 1B; instructor permission.  
Term Typically Offered: Fall, Spring  

GEOL 204. Contaminant Hydrogeology. 3 Units  
Prerequisite(s): CHEM 1B and CHEM 6B or CHEM 20, GEOL 202.  
Term Typically Offered: Fall, Spring  
Contaminants and contaminant transport in near-surface environments. Fluid-sediment interaction, fluid partitioning, common geochemical reactions, stability and mobility of groundwater contaminants, multi-phase systems, sampling considerations and overview of analytical techniques. 

GEOL 208. Groundwater Modeling. 3 Units  
Prerequisite(s): GEOL 127, MATH 45.  
Term Typically Offered: Fall, Spring  
Computer modeling of groundwater systems using 2 and 3 dimensional numerical solutions and common software packages. Topics will include data acquisition, constructing a numerical model, model calibration, flow paths, particle tracking and model output. 

GEOL 212. Geologic Remote Imaging. 3 Units  
Prerequisite(s): PHYS 5B or PHYS 11B; GEOL 102, GEOL 110A; and proficiency using a personal computer.  
Term Typically Offered: Fall, Spring  
Use of remote imaging in geologic applications. Types of imagery, acquisition, production, processing, and interpretation are covered. 

GEOL 213. Seminar in Structural Geology and Tectonics. 3 Units  
Prerequisite(s): GEOL 110A, MATH 30, graduate-level status in geology, or instructor permission.  
Term Typically Offered: Fall, Spring  
Advanced treatment of deformation of the lithosphere of the Earth over short and long timescales. Topics may include structural analysis, tectonic geochemistry, field studies, geochronology, use of technical analytical software, and interpretation of geologic mapping; review of published literature, collection and analysis of data, and preparation of technical manuscript.  
Note: This course requires one or more field trips. May be repeated for credit if covering different topics. 
Field trip(s) may be required. 

GEOL 214. Advanced Volcanology. 3 Units  
Term Typically Offered: Fall, Spring  
Analyzes volcanic eruption processes. Interpretation of volcanic deposits in the evaluation of volcanic hazards, risk, eruption processes, and geologic history. Field trip. 
Field trip(s) may be required. 

GEOL 218. Seminar in Geophysics. 3 Units  
Prerequisite(s): PHYS 5B or PHYS 11C, GEOL 112, graduate-level status in geology, or instructor permission.  
Term Typically Offered: Fall, Spring  
Advanced study of geophysics. The focus of this course is the quantitative analysis of physical processes and the physical properties of the Earth at both local and global scale. Course may include field measurements in addition to analytical and numerical modeling. Topics covered in the course may include heat flow, seismology, gravity, magnetics, geodesy, plate tectonics, borehole techniques, and near surface exploration.  
Note: This course requires one or more field trips. May be taken for credit multiple times if covering different topics. 
Field trip(s) may be required.
GEOL 220. Seminar in Surficial Processes. 3 Units
Prerequisite(s): GEOL 120 or equivalent, graduate status in Geology, or instructor permission.
Term Typically Offered: Fall, Spring

Course explores the dynamics of geological and hydrologic processes operating at the earth's surface and the landscapes in which they interact. Topics may include hydrologic and geologic surface processes, system thresholds and responses, process linkages, problem solving, data generation and evaluation that characterize processes and the landscapes with which they interact.

Note: May be taken for credit multiple times if covering different topics.

GEOL 223. Seminar in Advanced Geochemistry. 3 Units
Prerequisite(s): CHEM 1A or equivalent, graduate-level status in Geology, or instructor permission.
Term Typically Offered: Fall, Spring

Advanced topics covering geochemistry on Earth and of Earth materials. Topics may include: thermodynamics and kinetics of geological environments, silicate and carbonate systems, major element geochemistry, trace and rare earth element geochemistry, stable and radiogenic isotopes; applications to studies of aqueous, pedogenic, marine, igneous, sedimentary, or metamorphic environments; analysis of geochemical aspects of contemporary resource, environmental, and paleoenvironmental problems.

Note: May be taken for credit multiple times if covering different topics.

GEOL 227. Seminar in Advanced Hydrogeology. 3 Units
Prerequisite(s): GEOL 127, graduate-level status in geology, or instructor permission.
Term Typically Offered: Fall, Spring

Advanced study of hydrogeology. Topics may include: water budgets, groundwater flow to wells, aquifer testing, fracture flow, dewatering, salt water intrusion, groundwater chemistry and dating, tracers, and contaminant transport and remediation.

Note: May be taken for credit multiple times if covering different topics.

GEOL 230. Seminar in Geology. 3 Units
Term Typically Offered: Fall, Spring

Reading, analysis and discussion of the geologic literature on selected topics in geology. Student presentations and reports are required.

Note: May be taken twice for credit.

GEOL 240. Advanced Special Topics in Geology. 3 Units
Prerequisite(s): Graduate-level status in geology and/or instructor permission.
Term Typically Offered: Fall, Spring

Advanced special topics in Geology that may include structural geology, volcanology, hydrogeology, engineering geology or other specialized topics selected to meet student demand or respond to industry trends in geology.

Note: May be taken for credit multiple times if covering different topics.

GEOL 275. Quantitative and Numerical Research Methods. 3 Units
Prerequisite(s): MATH 31
Term Typically Offered: Fall, Spring

Introduction to quantitative and numerical methods of solving geologic problems using high level programming.

GEOL 280. Seminar in Earth's Climate History. 3 Units
Prerequisite(s): Graduate-level status in geology and/or instructor permission.
Term Typically Offered: Fall, Spring

Seminar course on global climate change through Earth's geologic history. Topics may include the mechanisms of climate change, climate archives (how we determine Earth's climate history), the snow-ball earth hypothesis, Paleocene-Eocene Thermal Maximum, glacial/interglacial climate change, humans and climate change, and mitigation and adaptation to climate change.

Note: May be taken for credit multiple times if covering different topics.

GEOL 290. Regional Geology of the Western US. 3 Units
Prerequisite(s): GEOL 100, GEOL 102, GEOL 103 and GEOL 110A.
Term Typically Offered: Fall, Spring

Application of advanced geological concepts in tectonics, stratigraphy, sedimentology, petrology, and volcanism to the geologic evolution of the Western United States from Precambrian to present. Field trip. Course Fee.

Field trip(s) may be required.

GEOL 293. Engineering Geology. 3 Units
Prerequisite(s): GEOL 193C.
Term Typically Offered: Fall, Spring

Takes a geological approach to evaluating engineering issues associated with building with or on natural earthen materials. Rock and soil mechanics, slope stability, geophysical investigation of rock and soil properties.

Note: 150 minutes Lecture = 3 units.

GEOL 299. Special Problems in Geology. 1 - 4 Units
Prerequisite(s): Graduate-level status in geology, approval of project by a faculty sponsor and Department Chair; instructor permission.
Term Typically Offered: Fall, Spring

Graduate research. Independent research in geology that may include library research, short-term original research, technique development, fieldwork, or laboratory research. May include research toward thesis proposal. Culminating experience will be in the form of a written report, oral presentation, or scientific paper.

GEOL 500. Master's Thesis. 6 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree. Should be taken in the final semester prior to the completion of all requirements for the degree.

GEOL 596. Comprehensive Examination. 0 Units
Term Typically Offered: Fall, Spring

A written comprehensive examination administered by a committee of three faculty members. Assesses the student's ability to integrate knowledge from core and elective courses, show critical and independent thinking, and demonstrate mastery of the subject matter. Required for the non-thesis option. Graded: CR/NC. May be retaken one time after 4 calendar months. Units: 0.
Credit/No Credit
BA in Earth Science

Units required for Major: 62-64

Program Description

The BA degree program is designed as a shorter, more flexible preparation for some geology jobs, earth science teaching in high school, and jobs such as park naturalist, environmentalist, geologic planning specialist, or in geology-related businesses. The BA degree can be used in dual-track majors combining geology with biological sciences, chemistry, physics, or engineering.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Lower Division Courses (37-38 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following introductory Geology lecture-lab combinations:</td>
<td></td>
</tr>
<tr>
<td>GEOL 5</td>
<td>Geology Of Mexico</td>
<td>4</td>
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<tr>
<td>GEOL 7</td>
<td>Natural Disasters &amp; GEOL 8L</td>
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<tr>
<td>GEOL 8</td>
<td>Earth Science &amp; 8L</td>
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<tr>
<td>GEOL 10</td>
<td>Physical Geology &amp; 10L</td>
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<tr>
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<td>Each of the remaining courses as follows:</td>
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<tr>
<td>ASTR 4B</td>
<td>Introduction to Stars, Galaxies, and Cosmology</td>
<td>3</td>
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<tr>
<td>ASTR 6</td>
<td>Astronomical Observation Laboratory</td>
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<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>9</td>
</tr>
<tr>
<td>&amp; BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>10</td>
</tr>
<tr>
<td>or BIO 7</td>
<td>Introduction to the Science of Biology</td>
<td></td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
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<tr>
<td>or CHEM 6A</td>
<td>Introduction to General Chemistry</td>
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<tr>
<td>GEOL 12</td>
<td>Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 12L</td>
<td>Historical Geology Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
<td>8</td>
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<tr>
<td>&amp; PHYS 5B</td>
<td>General Physics: Light, Electricity and Magnetism, Modern Physics</td>
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<tr>
<td></td>
<td>Required Upper Division Courses (26 Units)</td>
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<tr>
<td>GEOL 111</td>
<td>Elements Of Meteorology</td>
<td>3</td>
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<tr>
<td>GEOL 103</td>
<td>Sedimentology/Stratigraphy</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 111A</td>
<td>Field Geology</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 111B</td>
<td>Field Techniques</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 130</td>
<td>Oceanography</td>
<td>3</td>
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<tr>
<td></td>
<td>Select 6 units from the following:</td>
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<tr>
<td>GEOL 105</td>
<td>Paleontology</td>
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<tr>
<td>GEOL 110A</td>
<td>Structural Geology and Tectonics</td>
<td></td>
</tr>
<tr>
<td>GEOL 114</td>
<td>Volcanology</td>
<td></td>
</tr>
<tr>
<td>GEOL 120</td>
<td>Surficial Processes</td>
<td></td>
</tr>
<tr>
<td>GEOL 121</td>
<td>Geology of California</td>
<td></td>
</tr>
<tr>
<td>GEOL 140</td>
<td>Geology and the Environment</td>
<td></td>
</tr>
<tr>
<td>GEOL 184</td>
<td>Geological Field Trip</td>
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<td></td>
<td>Select 6 units not taken previously from the following:</td>
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<td>ANTH 124</td>
<td>Environmental Archaeology</td>
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<tr>
<td></td>
<td>Total Units</td>
<td>63-64</td>
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</tbody>
</table>

1 Indicates courses recommended for students wishing to prepare for CSET Exam for teaching high school science.

BA in Geology

Units required for Major: 65-70
Total units required for BA: 120

Program Description

The BA degree program is designed as a shorter, more flexible preparation for some geology jobs, earth science teaching in high school, and jobs such as park naturalist, environmentalist, geologic planning specialist, or in geology-related businesses. The BA degree can be used in dual-track majors combining geology with biological sciences, chemistry, physics, or engineering.

Program Requirements

<table>
<thead>
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<th>Code</th>
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<th>Units</th>
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<tbody>
<tr>
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<td>Required Lower Division Courses (21-26 Units)</td>
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<tr>
<td>CHEM 1A</td>
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<td>GEOL 5</td>
<td>Geology Of Mexico</td>
<td>4</td>
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<tr>
<td>or GEOL 10 &amp; 10L</td>
<td>Physical Geology Lab</td>
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<tr>
<td>GEOL 11 Digital Methods in Geoscience</td>
<td>1</td>
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<tr>
<td>GEOL 12</td>
<td>Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 12L</td>
<td>Historical Geology Lab</td>
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</tr>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 29 &amp; MATH 30</td>
<td>Pre-Calculus Mathematics</td>
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<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
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<tr>
<td>or PHYS 11A</td>
<td>General Physics: Mechanics</td>
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<tr>
<td></td>
<td>Required Upper Division Courses (44 Units)</td>
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<td>GEOL 100</td>
<td>Earth Materials - Rocks and Minerals</td>
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<td>GEOL 103</td>
<td>Sedimentology/Stratigraphy</td>
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<tr>
<td>GEOL 110A</td>
<td>Structural Geology and Tectonics</td>
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<td>GEOL 110B</td>
<td>Structural Geology Field</td>
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</tr>
<tr>
<td>GEOL 111A</td>
<td>Field Geology</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 111B</td>
<td>Field Techniques</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 121</td>
<td>Geology of California</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 130</td>
<td>Oceanography</td>
<td>3</td>
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<tr>
<td>or GEOL 180</td>
<td>Water Planet</td>
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<tr>
<td>Code</td>
<td>Title</td>
<td>Units</td>
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<tr>
<td>GEOL 140</td>
<td>Geology and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 189</td>
<td>Geology Colloquium</td>
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<td>Select at least 16 units of the following:</td>
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<td>GEOL 101</td>
<td>Optical Mineralogy</td>
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<td>GEOL 102</td>
<td>Igneous and Metamorphic Petrology</td>
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<tr>
<td>GEOL 105</td>
<td>Paleontology</td>
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<tr>
<td>GEOL 112</td>
<td>Geophysics For Geologists</td>
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</tr>
<tr>
<td>GEOL 114</td>
<td>Volcanology</td>
<td></td>
</tr>
<tr>
<td>GEOL 120</td>
<td>Surficial Processes</td>
<td></td>
</tr>
<tr>
<td>GEOL 123</td>
<td>Geochemistry</td>
<td></td>
</tr>
<tr>
<td>GEOL 125</td>
<td>Metallic Ore Deposits</td>
<td></td>
</tr>
<tr>
<td>GEOL 126</td>
<td>Environmental Field Methods</td>
<td></td>
</tr>
<tr>
<td>GEOL 127</td>
<td>Hydrogeology</td>
<td></td>
</tr>
<tr>
<td>GEOL 132</td>
<td>Marine Geology</td>
<td></td>
</tr>
<tr>
<td>GEOL 150</td>
<td>Computer Mapping in Geology</td>
<td></td>
</tr>
<tr>
<td>GEOL 171</td>
<td>Petroleum Geology</td>
<td></td>
</tr>
<tr>
<td>GEOL 190A</td>
<td>Geology and Tectonic Development of California Seminar</td>
<td></td>
</tr>
<tr>
<td>GEOL 193C</td>
<td>Engineering Geology</td>
<td></td>
</tr>
<tr>
<td>GEOL 198A</td>
<td>Senior Research Preparation</td>
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<tr>
<td>GEOL 198B</td>
<td>Senior Research Project</td>
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</tr>
<tr>
<td>GEOL 188</td>
<td>Advanced Geologic Mapping</td>
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</tbody>
</table>

**Total Units** 65-70

1 Course also satisfies General Education (GE)/Graduation Requirement.

### General Education Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
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</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
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<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
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<tr>
<td><strong>Area B: Physical Universe and Its Life Forms (6 Units)</strong></td>
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<tr>
<td>B1</td>
<td>Physical Science</td>
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</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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<tr>
<td>B4</td>
<td>Math Concepts</td>
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<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td><strong>Area C: Arts and Humanities (12 Units)</strong></td>
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<tr>
<td>C1</td>
<td>Arts</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
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<tr>
<td>C1/C2</td>
<td>Area C Course</td>
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<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td><strong>Area D: The Individual and Society (9 Units)</strong></td>
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<tr>
<td>D</td>
<td>Course</td>
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<tr>
<td>D</td>
<td>Course</td>
<td>3</td>
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<tr>
<td>D</td>
<td>Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
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<tr>
<td><strong>Area E: Understanding Personal Development (3 Units)</strong></td>
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### Graduation Requirements 1

<table>
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<tr>
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<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td><strong>Graduation Requirements (required by CSU) (6 Units)</strong></td>
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<tr>
<td>American Institutions: U.S. History</td>
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<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
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<tr>
<td><strong>Writing Intensive (WI) 3</strong></td>
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<tr>
<td><strong>Graduation Requirements (required by Sacramento State) (12 Units)</strong></td>
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<tr>
<td>English Composition II</td>
<td>3</td>
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<tr>
<td>Race and Ethnicity in American Society (RE)</td>
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<tr>
<td>Foreign Language Proficiency Requirement 2</td>
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</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

### BS in Geology

Units required for Major: 72

Total units required for BS: 120

### Program Description

The BS in Geology (General Geology) degree program is designed to prepare students for professional employment or advanced study in geology. The Geology program emphasizes a strong background in the major areas of geology including: mineralogy, petrology, stratigraphy, structural geology, field mapping, and report writing.
## Program Requirements

### Required Lower Division Core Courses (26 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 10</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 10L</td>
<td>Physical Geology Lab</td>
<td></td>
</tr>
<tr>
<td>or GEOL 5</td>
<td>Geology Of Mexico</td>
<td></td>
</tr>
<tr>
<td>GEOL 11</td>
<td>Digital Methods in Geoscience</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 12</td>
<td>Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 12L</td>
<td>Historical Geology Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I 1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS 11A</td>
<td>General Physics: Mechanics</td>
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</tr>
<tr>
<td>PHYS 5B</td>
<td>General Physics: Light, Electricity and Magnetism, Modern Physics</td>
<td>4</td>
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<tr>
<td>or PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
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### Required Upper Division Core Courses (46 Units)

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<tbody>
<tr>
<td>GEOL 100</td>
<td>Earth Materials - Rocks and Minerals</td>
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<td>GEOL 103</td>
<td>Sedimentology/Stratigraphy</td>
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<td>Structural Geology and Tectonics</td>
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<td>GEOL 110B</td>
<td>Structural Geology Field</td>
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</tr>
<tr>
<td>GEOL 111A</td>
<td>Field Geology</td>
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</tr>
<tr>
<td>GEOL 111B</td>
<td>Field Techniques</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 121</td>
<td>Geology of California</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 189</td>
<td>Geology Colloquium</td>
<td>2</td>
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<tr>
<td>Select from the following concentrations:</td>
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<tr>
<td>General Geology</td>
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<tr>
<td>Hydrogeology</td>
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### Concentration in General Geology

#### Required Courses (12 Units)

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<td>GEOL 101</td>
<td>Optical Mineralogy</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 102</td>
<td>Igneous and Metamorphic Petrology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 188</td>
<td>Advanced Geologic Mapping</td>
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#### Elective Courses (12 Units)

Select at least 12 units from the following: 12

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<th>Code</th>
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<tr>
<td>GEOL 105</td>
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<td>GEOL 112</td>
<td>Geophysics For Geologists</td>
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<td>GEOL 114</td>
<td>Volcanology</td>
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<tr>
<td>GEOL 120</td>
<td>Surficial Processes</td>
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<tr>
<td>GEOL 123</td>
<td>Geochemistry</td>
<td></td>
</tr>
<tr>
<td>GEOL 125</td>
<td>Metallic Ore Deposits</td>
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<td>GEOL 126</td>
<td>Environmental Field Methods</td>
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<tr>
<td>GEOL 127</td>
<td>Hydrogeology</td>
<td></td>
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<tr>
<td>GEOL 132</td>
<td>Marine Geology</td>
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<tr>
<td>GEOL 150</td>
<td>Computer Mapping in Geology</td>
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<tr>
<td>GEOL 171</td>
<td>Petroleum Geology</td>
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### Total Units 72

1. Course also satisfies General Education (GE)/Graduation Requirement.

## General Education Requirements

### Required in Major; also satisfies GE.

<table>
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<tr>
<th>Code</th>
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<th>Units</th>
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</thead>
<tbody>
<tr>
<td>GEOL 190A</td>
<td>Geology and Tectonic Development of California Seminar</td>
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<tr>
<td>GEOL 193C</td>
<td>Engineering Geology</td>
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<tr>
<td>GEOL 198A</td>
<td>Senior Research Preparation</td>
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<td>GEOL 198B</td>
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### Total Units 24

### General Education Requirements

#### Code    Title                                      | Units

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

#### Area B: Physical Universe and Its Life Forms (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 - Physical Science</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

#### Area C: Arts and Humanities (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1 - Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Area C Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

#### Area D: The Individual and Society (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

#### Area E: Understanding Personal Development (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area E Course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

#### Area F: Ethnic Studies (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area F Course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

### Total Units 42

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Required in Major; also satisfies GE.

## Graduation Requirements

### Code    Title                                      | Units

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Graduation Requirements (required by Sacramento State) (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

BS in Geology (Hydrogeology)

Units required for Major: 72
Total units required for BS: 120

Program Description

The BS in Geology with a concentration in Hydrogeology is designed to prepare students for professional employment or further studies in hydrogeology and water resources. The program emphasizes the fundamentals of geology, including mineralogy/petrology, stratigraphy, structural geology, and field geology, then builds on this foundation with coursework focusing on the water cycle and related Earth processes.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Lower Division Core Courses (26 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 10 &amp; 10L</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>or GEOL 5</td>
<td>Geology Of Mexico</td>
<td></td>
</tr>
<tr>
<td>GEOL 11</td>
<td>Digital Methods in Geoscience</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 12</td>
<td>Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 12L</td>
<td>Historical Geology Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td></td>
</tr>
<tr>
<td>PHYS 5B</td>
<td>General Physics: Light, Electricity and Magnetism, Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
<td></td>
</tr>
<tr>
<td>Required Upper Division Core Courses (22 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOL 100</td>
<td>Earth Materials - Rocks and Minerals</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 103</td>
<td>Sedimentology/Stratigraphy</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 110A</td>
<td>Structural Geology and Tectonics</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 110B</td>
<td>Structural Geology Field</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 111A</td>
<td>Field Geology</td>
<td>2</td>
</tr>
</tbody>
</table>

Concentration (24 Units)

Select from the following concentrations: 24
General Geology
Hydrogeology

Total Units 72

1 Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in Hydrogeology (24 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 127</td>
<td>Hydrogeology</td>
<td>4</td>
</tr>
</tbody>
</table>

Elective Courses (15 Units)

Select at least 6 units from the following three classes: 15
GEOL 120 Surficial Processes
GEOL 123 Geochemistry
GEOL 126 Environmental Field Methods

Remaining elective units may come from the following classes:
GEOL 101 Optical Mineralogy
GEOL 102 Igneous and Metamorphic Petrology
GEOL 105 Paleontology
GEOL 112 Geophysics For Geologists
GEOL 114 Volcanology
GEOL 125 Metallic Ore Deposits
GEOL 132 Marine Geology
GEOL 150 Computer Mapping in Geology
GEOL 171 Petroleum Geology
GEOL 188 Advanced Geologic Mapping
GEOL 193C Engineering Geology
GEOL 198A Senior Research Preparation
GEOL 198B Senior Research Project

Total Units 24

General Education Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1 - Physical Science 2</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) 2</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts 2</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area C: Arts and Humanities (12 Units)
C1 - Arts 3
C2 - Humanities 3
C1/C2 - Area C Course 3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.

Area D: The Individual and Society (9 Units)
Area D Course 3
Area D Course 3
Area D Course - Take upper-division course to complete Area & upper division requirements.

Area E: Understanding Personal Development (3 Units)
Area E Course 3

Area F: Ethnic Studies (3 Units)
Area F Course 3

Total Units 42

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

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2 Required in Major; also satisfies GE.

Graduation Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 10</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 10L</td>
<td>Physical Geology Lab</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 12</td>
<td>Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 12L</td>
<td>Historical Geology Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

Select 10 units of upper division courses in Geology electives 1 10

Total Units 18

MS in Geology

Total units required for MS: 30

Program Description

The graduate program in Geology offers two tracks to a Master of Science degree in Geology: a thesis-based option in which students pursue a research project and a non-thesis option that culminates in a comprehensive examination. Students who successfully complete the program will upgrade their educational qualifications and be able to advance to doctoral programs or professional positions that require an in-depth knowledge of geologic topics such as tectonics, hydrogeology, environmental geology, and geologic hazards. The University’s location in the state capital provides direct access to many local, federal, and state agencies through internship and fieldwork opportunities.

Each student should plan their program according to their background, interests and objectives, in consultation with a faculty academic advisor. Students who are interested in pursuing the thesis-based option should contact potential advisors prior to application to the program. All students enter the program in the non-thesis option and those interested in a thesis must apply to switch to the thesis-based option with the agreement of a faculty advisor.

Graduate students who want to engage in teaching can request an appointment as a Graduate Teaching Associate. Graduate Teaching Associates have the opportunity to teach one to two lower division laboratory courses per semester and are paid at a rate commensurate with their teaching load.

All work toward the degree must be completed within a seven-year period. The general University requirements for graduate degrees are explained in the "Graduate Studies" section of this Catalog or visit the Geology Department's website (http://www.csus.edu/geology/).

Admission Requirements

Admission as a classified graduate student in Geology requires:
a degree in Geology, or 24 units of equivalent upper-division coursework in Geology which must have been passed with a grade of "C-" or better and includes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 10</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 10L</td>
<td>Physical Geology Lab</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 100</td>
<td>Earth Materials - Rocks and Minerals</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 102</td>
<td>Igneous and Metamorphic Petrology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 103</td>
<td>Sedimentology/Stratigraphy</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 110A</td>
<td>Structural Geology and Tectonics</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 111A</td>
<td>Field Geology</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 111B</td>
<td>Field Techniques</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

These core undergraduate courses cannot be used as graduate electives by students who do not hold a degree in Geology or equivalent;

- a minimum 3.0 GPA in upper division Geology courses;
- three letters of recommendation from persons familiar with your academic record and professional capabilities, sent directly to the Department;
- a brief statement of interest, faculty sponsorship (for the thesis-based option), area of specialty and long-term goals;
- successful completion of two semesters of inorganic Chemistry with a lab (CHEM 1A and CHEM 1B);
- successful completion of two semesters of Physics with a lab (PHYS 11A and PHYS 11B or PHYS 5A and PHYS 5B); and
- successful completion of two semesters of Math (MATH 30 and MATH 31).

Students who have deficiencies in Admission Requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the admission application. You must be admitted to the degree program before graduate level courses will count toward the degree. Students with questions about their qualifications for the program are encouraged to contact the Geology Department Graduate Program Coordinator.

**Admission Procedures**

All prospective classified graduate students, including Sacramento State graduates, must follow the application procedures specified by both the Geology Department and the Office of Graduate Studies. For more admissions information and application deadlines please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/) and the Geology Department website (https://www.csus.edu/college/natural-sciences-mathematics/geology/).

Applications are accepted as long as space for new students exists. A decision regarding admission will be mailed to the applicant upon review of all application materials.

**Minimum Units and Grade Requirement for the Degree**

Units for the MS: 30

Minimum Cumulative GPA: 3.0

- Students must maintain an overall GPA of 3.0 or better in the Program. This means that students who earn a "C" grade in a course can count it towards advancement to candidacy (and count it towards graduation) as long as the overall cumulative GPA remains a 3.0 or better. No more than 6 units of "C" grade will be accepted for graduate credit.

**Advancement to Candidacy**

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least two courses at the 200-level; Students must maintain an overall GPA of 3.0 or better in the Program. This means that students who earn a "C" grade in a course can count it towards advancement to candidacy (and count it towards graduation) as long as the overall cumulative GPA remains a 3.0 or better. No more than 6 units of "C" grade will be accepted for graduate credit.
- obtained the graduate committee's acceptance of the thesis proposal (for the thesis-based option); and
- taken the Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student must fill out the form after planning a degree program in consultation with their faculty advisor. After approval by the Geology Department Graduate Committee, the completed form is returned to the Office of Graduate Studies for approval.

**Program Requirements**

**Required Core Courses (9 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 200</td>
<td>Graduate Research Methods Seminar</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 275</td>
<td>Quantitative and Numerical Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 290</td>
<td>Regional Geology of the Western US</td>
<td>3</td>
</tr>
</tbody>
</table>

**Graduate electives (15-21 Units)**

Select 15-21 units of the following:

- GEOL 201 SEMINAR IN PETROLOGY
- GEOL 208 Groundwater Modeling
- GEOL 212 Geologic Remote Imaging
- GEOL 213 Seminar in Structural Geology and Tectonics
- GEOL 218 Seminar in Geophysics
- GEOL 220 Seminar in Surficial Processes
- GEOL 223 Seminar in Advanced Geochemistry
- GEOL 227 Seminar in Advanced Hydrogeology
- GEOL 230 Seminar In Geology
- GEOL 240 Advanced Special Topics in Geology
- GEOL 280 SEMINAR IN EARTH'S CLIMATE HISTORY
- GEOL 299 Special Problems in Geology

**Culminating Requirements (0-6 Units)**

Select one of the following plans:

- **Plan A**
  - GEOL 500 Master's Thesis
- **Plan B**
GEOL 596

Comprehensive Examination

Total Units 30-36

Courses taken to meet the graduate core requirement will not count as elective courses. Elective courses will be selected with prior approval of the student's faculty advisor. In addition to 200-level courses, these may also include up to 6 units of approved technical electives (but not required courses) from the undergraduate curriculum. GEOL 299 requires prior approval of the Graduate Coordinator, and may constitute no more than 6 units toward the graduate degree.

Mathematics and Statistics

College of Natural Sciences and Mathematics

Program Description

In today’s highly technological society, the study of Mathematics takes on an increasingly important role. The Sacramento State Mathematics Department designs its courses with the goal of providing students with the mathematical concepts appropriate to the student’s field.

The program consists of sequences of courses that lead to a Bachelor of Arts with a major in Mathematics, with emphasis in Pure Mathematics, Applied Mathematics, Statistics, or a Teacher Preparation Program. A minor in Mathematics or Statistics and a Master of Arts in Mathematics is also offered.

Degree Programs

Minor in Mathematics (p. 896)

Minor in Statistics (p. 897)

BA in Mathematics (p. 891)

Integrated Mathematics Major/Single Subject Credential Program (p. 893)

MA in Mathematics (p. 895)

Special Features

- The study of mathematics at Sacramento State has several strong advantages. The flexibility of the major gives students enough freedom to mold their degree along their particular interest.
- An excellent computer facility gives mathematics students easy access to the campus computer resources.
- Currently there is a demand for majors in mathematics with training in applied mathematics and statistics. Program graduates have had success in finding employment in public and private sectors.
- Since there is presently a need for high school mathematics teachers, some majors pursue a secondary teaching career. Graduate students in mathematics are finding opportunities for public and private employment in jobs requiring more advanced training in mathematics and statistics. Sacramento State Master’s Degree graduates now teach at community colleges throughout the state. Upper division majors may check with the mathematics administrative support coordinator on the possibility of applying for paid positions as student assistants.
- Student assistants work from 10-20 hours per week in math-related duties on campus.

Note: Students interested in a major or minor in mathematics should contact the Department secretary for an advising appointment with a mathematics advisor.

Career Possibilities

Mathematics Teacher · Mathematician · Encryption Analyst · Quantitative Analyst · Engineering Analyst · Systems Analyst · Operations Analyst · Actuary · Risk Analyst · Image Scientist · Technical Writer · Statisticians involved in: Surveying/Polling, Biology/Agriculture, Business/Economics, Physical Sciences/Engineering

Contact Information

David Zeigler, Department Chair
Dawn Giovannoni, Administrative Support Coordinator
Brighton Hall 141
(916) 278-6534
Department of Mathematics & Statistics (http://www.csus.edu/math/)

Faculty

BEHZADAN, ALI
CAPPIELLO, LAUREN
CETIN, COSKUN
CUMMINGS, JAY
DIAZ-ESCAMILLA, RAFAEL E.
DOMOKOS, ANDRAS
ELCE, KIMBERLY
FITZGERALD, CLARK
GHOSH HAJRA, SAYONITA
HAMILTON, TRACY
HIGGINS, ABIGAIL
KANDEL, SANTOSH
KRAUEL, MATTHEW
LU, BIN
MARTINS, GABRIEL
NORRIS, ANN MICHELLE
Pannu, Jasdeep
PIGNO, VINCENT
RATI, VARDAYANI
RICCIOTTI, DIEGO
SHANBROM, COREY
TAYLOR, LISA
TIMMONS, CRAIG
VANVALKENBURGH, MICHAEL
MATH 1. Mathematical Reasoning. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Recommended for students whose majors do not include a specific mathematics requirement. Objectives are to show some of the essence and quality of mathematics, and to enhance precision in the evaluation and expression of ideas, thereby developing a student's quantitative reasoning skills. Designed to give students an understanding of some of the vocabulary, methods, and reasoning of mathematics with a focus on ideas.

MATH 10. Essentials of Algebra. 3 Units
Term Typically Offered: Fall, Spring, Summer

Prepares students for courses requiring fundamental algebra skills. Topics include: review of basic algebra; scientific notation, rounding, and percents; factoring; exponents; linear equations and inequalities with applications; quadratic equations with applications; graphing with applications; absolute value equations and inequalities; systems of linear equations and inequalities; and an introduction to exponential and logarithmic expressions.

MATH 12. Algebra for STEM Courses. 4 Units
Term Typically Offered: Fall, Spring, Summer

Prepares students for Precalculus and other higher math courses requiring intermediate algebra. Topics include: linear equations and inequalities, absolute value equations and inequalities, systems of linear equations, quadratic equations, polynomial expressions and equations, rational expressions and equations, roots and radicals, and exponential & logarithmic properties and equations.

Note: Students who have received a C- or higher in a college level precalculus or calculus course are not eligible to enroll for credit without the permission of the instructor.

MATH 15H. Honors Mathematical Reasoning. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Introduction to the composition and interpretation of mathematical ideas and to the mathematical reasoning necessary to derive results in a variety of mathematical topics. Emphasis on developing concepts and analyzing results.

MATH 17. An Introduction to Exploration, Conjecture, and Proof in Mathematics. 3 Units
Prerequisite(s): Score of 46 or higher on ALEKS PPL exam or MATH 10
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Prepares students for MATH 107A and MATH 107B. Students will explore mathematical patterns and relations, formulate conjectures, and prove their conjectures. Topics from number theory, probability and statistics, and geometry.

MATH 24. Modern Business Mathematics. 3 Units
Prerequisite(s): Score of 51 or higher on ALEKS PPL exam or MATH 10
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Mathematics for business world, including functions, math of finance, linear programming and rates of change. Applications to economics and business will be emphasized throughout.

MATH 26A. Calculus I for the Social and Life Sciences. 3 Units
Prerequisite(s): Score of 61 or higher on ALEKS PPL exam or MATH 12
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Limits, differentiation with applications, integration and applications in the Social Sciences and Life Sciences.

MATH 26B. Calculus II for the Social and Life Sciences. 3 Units
Prerequisite(s): MATH 26A or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Continuation of MATH 26A, integration and applications to the Social Sciences and Life Sciences. Multi-variate analysis including partial differentiation and maximization subject to constraints; elementary differential equations; sequences and series. Calculus of the trigonometric functions as time allows.

Note: Not open to students already having credit for MATH 31 or equivalent.

MATH 29. Pre-Calculus Mathematics. 4 Units
Prerequisite(s): Score of 61 or higher on ALEKS PPL exam or MATH 12
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Designed to prepare students for calculus. Topics: trigonometry, points and lines in the Cartesian plane; lines and planes in space; transformation of coordinates; the conics; graphs of algebraic relations; the elementary transcendental functions.

MATH 29A. Pre-Calculus Mathematics A. 2 Units
Prerequisite(s): MATH 12
Term Typically Offered: Fall, Spring, Summer

First semester of a two semester course that is designed to prepare students for calculus. Topics: functions and graphs, polynomial functions, rational functions and applications. Lecture two hours.
MATH 29B. Pre-Calculus Mathematics B. 2 Units
Prerequisite(s): MATH 29A.
Corequisite(s): MATH 29M.
Term Typically Offered: Fall, Spring, Summer

Second semester of a two semester course that is designed to prepare students for calculus. Topics: exponential and logarithmic functions, trigonometric functions, analytic geometry, and applications. Lecture two hours.

MATH 29L. Lab for Pre-Calculus Math A. 1 Unit
Corequisite(s): MATH 29B.
Term Typically Offered: Fall, Spring

Workshop designed to deepen the understanding of pre-calculus developed in MATH 29A.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree. Laboratory

MATH 29M. Lab for Pre-Calculus Math B. 1 Unit
Corequisite(s): MATH 29B.
Term Typically Offered: Fall, Spring

Workshop designed to deepen the understanding of pre-calculus developed in MATH 29B.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree. Laboratory

MATH 30. Calculus I. 4 Units
Prerequisite(s): Score of 76 or higher on ALEKS PPL exam or MATH 29 or MATH 29B
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Functions and their graphs; limits; the derivative and some of its applications; trigonometric and hyperbolic functions and their inverses; the integral; the fundamental theorem; some applications of the integral.

MATH 30L. Laboratory for First Semester Calculus. 1 Unit
Corequisite(s): Enrollment in a designated section of MATH 30.
Term Typically Offered: Fall, Spring

Workshop designed to deepen the understanding of calculus developed in MATH 30.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree. Laboratory

Credit/No Credit

MATH 31. Calculus II. 4 Units
Prerequisite(s): MATH 30 or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

MATH 31L. Laboratory for Second Semester Calculus. 1 Unit
Corequisite(s): Enrollment in a designated section of MATH 31.
Term Typically Offered: Fall, Spring, Summer

Workshop designed to deepen the understanding of calculus developed in MATH 31.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree. Laboratory

Credit/No Credit

MATH 32. Calculus III. 4 Units
Prerequisite(s): MATH 31.
Term Typically Offered: Fall, Spring, Summer

Continuation of Calculus II. Algebra and calculus of vectors; functions of several variables; partial differentiation; multiple integration; vector analysis.

MATH 35. Introduction to Linear Algebra. 3 Units
Prerequisite(s): MATH 30 or a score of 4 or higher on the AP Calculus AB exam or instructor approval.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Careful development of matrices, systems of equations, determinants, vector spaces, linear transformations, orthogonality, real and complex eigenvalues; R3 viewed as a vector space with generalization to Rn.

MATH 45. Differential Equations for Science and Engineering. 3 Units
Prerequisite(s): MATH 31.
Term Typically Offered: Fall, Spring, Summer

First order differential equations, second order differential equations with constant coefficients. Laplace transforms, small systems of linear differential equations, numerical methods, introduction to second order differential equations with variable coefficients.

MATH 64. Mathematical Programming. 3 Units
Prerequisite(s): MATH 30 or a score of 4 or higher on the AP Calculus AB exam or instructor approval.
Term Typically Offered: Fall, Spring

Computational strategies in mathematical problem solving; implementation of mathematical algorithms; programming concepts including variables, functions, data structures, and control flow; data visualization, typesetting, and report generation.

MATH 96C. Academic Strategies for Math 10 - NSM:Mathematics and Statistics. 1 Unit
Corequisite(s): Math 10
Term Typically Offered: Fall, Spring

Supplemental instruction for Math 10 focused on developing study skills and effective learning strategies.
Credit/No Credit

MATH 96D. Academic Strategies for Math 24 - NSM:Mathematics and Statistics. 1 Unit
Corequisite(s): MATH 24
Term Typically Offered: Fall, Spring, Summer

Supplemental instruction for Math 24 focused on developing study skills and effective learning strategies.
Credit/No Credit
MATH 96E.  Elem Math Content Adv Viewpoin.  1 Unit
Term Typically Offered: Fall, Spring, Summer

MATH 96E is a 1-unit, 1-week early start course for baccalaureate credit designed to prepare students for fall GE area B4. Working independently and collaboratively, students will use an inquiry-based approach to learning through research, reflection, and engagement with real-world scenarios. Students will develop various academic literacies in order to understand the conventions of quantitative reasoning required for success in a college setting.

Cross listed: ALS 96

Credit/No Credit

MATH 96F.  Mathematical Programming.  3 Units
Prerequisite(s): MATH 30 or appropriate high school based AP credit
Term Typically Offered: Fall, Spring

Computational strategies in mathematical problem solving; implementation of mathematical algorithms; programming concepts including variables, control flow, data structures, and functions; data visualization, typesetting, and report generation.

MATH 99.  Special Problems.  1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Permits a student to pursue study and research in an area not otherwise available through the regular curriculum.

Note: Open only to students who appear competent to carry on individual work; admission requires the approval of the faculty member under whom individual work is to be conducted, and approval of the advisor and the Department Chair.

Credit/No Credit

MATH 100.  Applied Linear Algebra.  3 Units
Prerequisite(s): MATH 26B or MATH 31.
Term Typically Offered: Fall, Spring

Linear algebra and its elementary applications. Topics: Matrix algebra; simultaneous linear equations; linear dependence and vector spaces; rank and inverses; determinants; numerical solution of simultaneous linear equations; linear transformations; eigenvalues and eigenvectors; unitary and similarity transformations; quadratic forms.

Note: May not be taken for credit toward a mathematics major.

MATH 101.  Combinatorics.  3 Units
Prerequisite(s): MATH 31
Term Typically Offered: Spring only

Introduction to the art of counting. The focus will be on actually listing the objects being counted in small cases and using the knowledge gained in working with small cases to build toward general principles. Sum and product principles, models of counting, permutations and combinations, equivalence relations and partitions, inclusion-exclusion principle, recurrence relations, and generating functions.

MATH 102.  Number Theory.  3 Units
Prerequisite(s): MATH 31
Term Typically Offered: Fall, Spring

Theory of divisibility; some number theoretical functions; congruencies (linear and quadratic); some Diophantine equations. Simple continued fractions.

MATH 103.  Vector Analysis.  3 Units
Prerequisite(s): MATH 32.
Term Typically Offered: Spring only

Vector and scalar fields, integral theorems, orthogonal curvilinear coordinates, vector spaces and linear transformations, applications to physical fields and operators.

MATH 105A.  Advanced Mathematics for Science and Engineering I.  4 Units
Prerequisite(s): MATH 32, MATH 45.
Term Typically Offered: Fall only


MATH 105B.  Advanced Mathematics for Science and Engineering II.  4 Units
Prerequisite(s): MATH 105A.
Term Typically Offered: Spring only

Partial differential equations continued, complex function theory and its applications.

MATH 107A.  Fundamental Mathematical Concepts.  3 Units
Prerequisite(s): MATH 17, MATH 107B, and CHDV 30 or CHDV 35.
Term Typically Offered: Fall, Spring

First half of a one-year course in the structure of the real number system and its sub-systems and in the basic properties and concepts of geometry. Topics will include: definitions and properties of the arithmetic relations and operations for the natural numbers, whole numbers, integers.

Note: May not be taken for credit toward a mathematics major or minor.

MATH 107B.  Fundamental Mathematical Concepts.  3 Units
Prerequisite(s): MATH 107A.
Term Typically Offered: Fall, Spring

Continuation of MATH 107A. Topics will include: rational numbers, real numbers, measurement, Euclidean Geometry.

Note: May not be taken for credit toward a mathematics major or minor.

MATH 107C.  Elementary Mathematics and the Learning Process.  3 Units
Prerequisite(s): MATH 17, MATH 107A or MATH 107B, and CHDV 30 or CHDV 35.
Term Typically Offered: Fall, Spring

Students will build on their understanding of material of Math 17, Math 107A/B by deepening their understanding of the concepts taught in these courses. This will be done by examining these concepts in relationship to theories of learning and development. Students will examine mathematical concepts related to K-8 with respect to the treatment of reasoning, communication, and the perspective of cognitive and social constructivism; and throughout the course will consider the question of “What is mathematics?” and “How is mathematics learned?”
MATH 108. Introduction to Formal Mathematics. 3 Units
Prerequisite(s): MATH 31, MATH 35.
Term Typically Offered: Fall, Spring

Logic of mathematical proof, set theory, relations, functions. Examples and applications from set cardinality, algebra, and analysis.

MATH 110A. Modern Algebra. 3 Units
Prerequisite(s): MATH 108.
Term Typically Offered: Fall, Spring

First half of a one-year introductory course in algebraic concepts. Topics include: groups, subgroups, properties of groups, permutation groups, factor groups, homomorphism theorems.

MATH 110B. Modern Algebra. 3 Units
Prerequisite(s): MATH 110A.
Term Typically Offered: Fall, Spring

Continuation of MATH 110A.
Note: Topics include

MATH 117. Linear Algebra. 3 Units
Prerequisite(s): MATH 110A.
Term Typically Offered: Fall, Spring

Abstract linear spaces and linear transformations; invariant subspaces; canonical forms.

MATH 121. College Geometry. 3 Units
Prerequisite(s): MATH 31; MATH 32 or MATH 35.
Term Typically Offered: Fall, Spring

Study of the axioms and theorems of Euclidean geometry. A comparison of several geometry axiom systems and their theorems, including those of some non-Euclidean and finite geometries.

MATH 130A. Functions of a Real Variable. 3 Units
Prerequisite(s): MATH 32 and MATH 108.
Term Typically Offered: Fall, Spring

First half of a one-year upper division course in functions of a real variable. The first semester will consist of a rigorous development of the theory of real-valued sequences and continuity and differentiation for functions of one real variable.

MATH 130B. Functions of a Real Variable. 3 Units
Prerequisite(s): MATH 130A.
Term Typically Offered: Fall, Spring

Continuation of MATH 130A. This semester will be devoted to a rigorous development of the theory of Riemann integration, infinite series, and sequences and series of functions.

MATH 134. Functions of a Complex Variable and Applications. 3 Units
Prerequisite(s): MATH 32.
Term Typically Offered: Spring only

Complex plane; analytic functions; integration and Cauchy’s Theorem; sequences and series; residue calculus; applications to potential theory; Fourier and Laplace transforms.

MATH 150. Introduction to Numerical Analysis. 3 Units
Prerequisite(s): MATH 31
Term Typically Offered: Spring only

Numerical solutions of algebraic and transcendental equations; interpolation, inverse interpolation, finite differences, cubic splines, and applications; numerical differentiation and integration; direct and iterative numerical solutions of linear systems; discrete and continuous least squares approximation.

MATH 161. Mathematical Logic. 3 Units
Prerequisite(s): MATH 108.
Term Typically Offered: Fall, Spring

Advanced study of logic with special application to mathematics.

MATH 162. Set Theory. 3 Units
Prerequisite(s): MATH 108.
Term Typically Offered: Fall only

Axiomatic study of set theory. Topics usually considered include: relations and functions; set theoretical equivalence; finite and infinite sets; cardinal arithmetic; ordinal numbers and transfinite induction; variants of the Axiom of Choice.

MATH 170. Linear Programming. 3 Units
Prerequisite(s): MATH 31; MATH 35 or MATH 100.
Term Typically Offered: Fall only

Theory of linear programming, duality, simplex method, integer programming, applications.

MATH 190. History Of Mathematics. 3 Units
Prerequisite(s): MATH 31 and upper division status in mathematics.
Term Typically Offered: Fall, Spring

Study of the development of mathematical ideas and techniques and their impact on the general course of the history of western civilization.

MATH 193. Capstone Course for the Teaching Credential Candidate. 3 Units
Prerequisite(s): Successful completion of at least five of the following: MATH 102, MATH 110A, MATH 110B, MATH 121, MATH 130A, MATH 130B or MATH 190; MATH 110A or MATH 130A may be taken concurrently.
Term Typically Offered: Fall, Spring

Reviews the major themes presented in the upper division program in Mathematics, and relates the themes to junior high school and high school curriculum. Required for all subject matter students.
Note: Not accepted for credit for non-Teaching Credential students.

MATH 196K. Introduction to Differential Geometry. 3 Units
Prerequisite(s): MATH 32, and MATH 35 or instructor’s permission
Term Typically Offered: Spring only

Calculus methods are applied to the study of curves and surfaces in three dimensional space. After an introduction to the geometry of curves (curvature, torsion, and Frenet’s formulas), the course explores the geometry of surfaces. Some of the geometrical properties of a surface that will be investigated are its first and second fundamental forms, its various curvatures (normal, principal, mean, and Gaussian curvatures), and its geodesic curves.
MATH 198. Seminar for Mathematics Tutors. 2 Units
Prerequisite(s): Students must be working as tutors in a campus-based program.
Term Typically Offered: Fall, Spring

Supports Sacramento State students who are working in tutorial and related roles in mathematics programs on campus. Focus on questioning as a fundamental strategy for teaching mathematics, on classroom observation, and on communication among mathematics instructors in support of effective teaching and learning.
Note: May be repeated up to two times for credit.
Credit/No Credit

MATH 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to those students who appear competent to carry on individual work. Admission to this course requires the approval of the faculty member under whom the individual work is to be conducted, in addition to the approval of the advisor and the Department Chair.
Credit/No Credit

MATH 202. Theory of Numbers. 3 Units
Prerequisite(s): Math 110A or equivalent; Math 110B is recommended.
Term Typically Offered: Fall, Spring

Divisibility properties of the integers, primes, modular arithmetic, Chinese Remainder Theorem, quadratic reciprocity and quadratic forms, arithmetic functions, the Möbius inversion formula, and Diophantine equations. Possible additional topics include elliptic curves, algebraic numbers, primes in arithmetic progressions, the geometry of numbers, p-adic numbers, primality tests, modular forms, and encryption.

MATH 210A. Algebraic Structures. 3 Units
Prerequisite(s): MATH 110B.
Term Typically Offered: Fall only

Graduate level course in algebraic structures. Topics include group theory including permutation groups, subgroups, homomorphisms, quotient groups, group actions, Sylow theorems and the theory of finite Abelian groups, as well as an introduction to ring theory including ideals, quotient rings, and integral domains.

MATH 210B. Algebraic Structures. 3 Units
Prerequisite(s): MATH 210A.
Term Typically Offered: Fall, Spring

Fields; vector spaces; Galois theory.

MATH 220A. Topology. 3 Units
Prerequisite(s): MATH 130B.
Term Typically Offered: Fall, Spring

Point set topology, continuity, compactness, connectedness.

MATH 220B. Topics In Topology. 3 Units
Prerequisite(s): MATH 220A.
Term Typically Offered: Fall, Spring

Continuation of MATH 220A with topics selected from: General topology, Geometric Topology, Continuum Theory, Homology Theory, Homotopy Theory, Topological Dynamics.
Note: May be taken twice with approval of the graduate coordinator.

MATH 230A. Real Analysis. 3 Units
Prerequisite(s): MATH 130B.
Term Typically Offered: Fall, Spring

Metric topology; the theory of the derivative; measure theory.

MATH 230B. Real Analysis. 3 Units
Prerequisite(s): MATH 230A.
Term Typically Offered: Fall, Spring

Continuation of MATH 230A, with topics selected from: Theory of the integral, including Riemann, Riemann Stieltjes, and Lebesgue integrals.
Note: May be taken twice with approval of the graduate coordinator.

MATH 234A. Complex Analysis. 3 Units
Prerequisite(s): MATH 130B; MATH 105B or MATH 134 is recommended.
Term Typically Offered: Fall, Spring

Complex numbers, complex functions, analytic functions, complex integration, harmonic functions.

MATH 234B. Topics in Complex Analysis. 3 Units
Prerequisite(s): MATH 234A.
Term Typically Offered: Fall, Spring

Continuation of MATH 234A with topics selected from: Partial Fractions and Infinite Products, Entire Functions, Riemann Zeta Function, Normal Families, Riemann Mapping Theorem, Conformal Mapping of Polygons, Dirichlet Problem, Analytic Continuation.
Note: May be taken twice with approval of the graduate coordinator.

MATH 241A. Methods of Applied Mathematics. 3 Units
Prerequisite(s): MATH 134 recommended.
Term Typically Offered: Fall, Spring

Note: May be repeated for credit provided topic is not repeated.

MATH 241B. Topics in Applied Mathematics. 3 Units
Prerequisite(s): MATH 241A.
Term Typically Offered: Fall, Spring

Continuation of MATH 241A with topics: Calculus of Variations, Functional Analysis, Dynamical Systems, Integral Equations, Sobolev Spaces, Fourier Analysis, Potential Theory, and Optimal Control Theory.
Note: May be taken twice with approval of the graduate coordinator.

MATH 248. Lie Theory. 3 Units
Prerequisite(s): Math 110A and Math 130A, or consent of instructor.
Term Typically Offered: Fall, Spring

Introduction to Lie algebras, Lie groups, and their connection. Emphasis is placed on examples given by matrices. Representation theory of Lie algebras or groups. Additional topics may include: applications to physics, the Baker-Campbell-Hausdorff Formula, one-parameter subgroups, root systems, the structure and classification of simple Lie algebras, and the topology of Lie groups.
This class will cover divisibility properties of the integers, primes and primality tests, modular arithmetic, Chinese Remainder Theorem, quadratic reciprocity and quadratic forms, arithmetic functions, the Mobius inversion formula, and Diophantine equations. Possible additional topics include elliptic curves, algebraic numbers, primes in arithmetic progressions, the geometry of numbers and encryption.

MATH 296C. Lie Theory. 3 Units
Prerequisite(s): Math 110A and Math 130A, or consent of instructor.
Term Typically Offered: Fall, Spring

The course gives a basic introduction to Lie algebras and their connections to Lie groups. Emphasis will be on examples given by matrices. Beyond an introduction to Lie algebras and groups, possible specific topics are: the classification and construction of simple Lie algebras; ADE classification; universal enveloping algebras; semi-simple Lie algebras and their representation theory; Lie group representations; subgroups and subalgebras; one-parameter subgroups; and the exponential map.

MATH 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem may do so if the proposed subject is acceptable to the supervising instructor and to the student's advisor. Credit/No Credit

MATH 316. The Psychology of Mathematics Instruction. 2 Units
Prerequisite(s): Admission to the Mathematics Blended Program.
Term Typically Offered: Fall only

A survey course for students in the Blended Program in Mathematics that relates broad areas of educational psychology and theories of learning to instruction in the secondary mathematics classroom. The focus is on practical applications of theories through the design of lesson and unit plans. Students will design learning activities for diverse classes of learners, including English Language Learners, and build and refine assessment plans that include formative assessments. Lecture two hours.

MATH 371A. Schools and Community A. 2 Units
Corequisite(s): Enrollment in EDTE 470A.
Term Typically Offered: Fall, Spring

The first of a two-part sequence supporting student teachers in the Mathematics Blended Program. Focus is on strategies for secondary mathematics instruction, the process of reflection on teaching, communication among mathematics teachers in support of effective teaching and learning, strategies for engagement, questioning, creating a safe classroom environment, classroom management, assessment, and familiarity with school and community resources. Emphasis on issues related to English Language Learners, special needs students, and intervention strategies. Seminar two hours. Credit/No Credit

MATH 371B. Schools and Community B. 2 Units
Corequisite(s): Enrollment in EDTE 470B.
Term Typically Offered: Fall, Spring

The second of a two-part sequence supporting student teachers in the Mathematics Blended Program. Focus is on strategies for secondary mathematics instruction, the process of reflection on teaching, communication among mathematics teachers in support of effective teaching and learning, strategies for engagement, questioning, creating a safe classroom environment, classroom management, assessment, and familiarity with school and community resources. Emphasis on issues related to English Language Learners, special needs students, and intervention strategies. Seminar two hours. Credit/No Credit

MATH 500. Culminating Experience. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Directed reading programs for master’s candidates preparing for written comprehensive examinations.

STAT 1. Introduction to Statistics. 3 Units
Prerequisite(s): Math 10 or a score of 51 or higher on a proctored ALEKS PPL exam.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Descriptive statistics, basic concepts of probability and sampling with the aim of introducing fundamental notions and techniques of statistical inference.

STAT 10A. Introductory Statistics with Developmental Mathematics. 3 Units
Term Typically Offered: Fall, Spring, Summer

Prepares students for STAT 10B that requires background in data analysis process, descriptive statistics and the concept of randomness. Topics include: Summarizing the data distribution graphically and numerically; reasoning about bivariate numerical data; linear correlation and regression; linear, quadratic and exponential functions as a way of modeling a correspondence between two variables; reasoning about bivariate categorical data; basic concepts of probability and the law of large numbers; conditional probability; discrete random variables; binomial distribution; and an introduction to continuous random variables. Lecture three hours.
STAT 50. Introduction to Probability and Statistics. 4 Units
Prerequisite(s): MATH 26A, MATH 30, or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Sample spaces, combinatorics, and random variables. Density and distribution functions. Expectation, variance, and covariance. The binomial, uniform, poisson, negative binomial, hypergeometric, exponential, gamma, beta, and normal distributions. Sampling distributions, estimation, and hypothesis tests. Students are given periodic writing assignments which encourage them to think through concepts of the course.

STAT 96. Experimental Offerings in Statistics. 1 - 6 Units
Term Typically Offered: Fall, Spring

When there is a demand from a sufficient number of qualified students, one of the staff will conduct a seminar on some topic in statistics.

STAT 103. Intermediate Statistics. 3 Units
Prerequisite(s): STAT 50 or instructor consent
Term Typically Offered: Spring only – even years


STAT 115A. Introduction to Probability Theory. 3 Units
Prerequisite(s): MATH 31 and either STAT 1 or STAT 50
Term Typically Offered: Fall only

Probability axioms, discrete and continuous random variables, functions of random variables, joint densities, expectation, moment generating functions. Chebyshov’s inequality, transformations, weak law of large numbers, central limit theorem.

STAT 115B. Introduction to Mathematical Statistics. 3 Units
Prerequisite(s): STAT 115A.
Term Typically Offered: Spring only

Point Estimation, interval estimation, hypothesis testing, the multivariate normal distribution, non-parametric tests.

STAT 128. Statistical Computing. 3 Units
Prerequisite(s): (STAT 1 or STAT 50) and (MATH 26A or MATH 30) or consent of the instructor.

Computer methods for accessing, transforming, summarizing, graphing and making statistical inferences from data; focus is on command-line statistical software, but menu-driven software may be introduced; application of computer methods to solve problems selected from the areas of modeling, simulation, inference and statistical learning.

STAT 129. Analyzing and Processing Big Data. 3 Units
Prerequisite(s): (STAT 1 or STAT 50) and (MATH 26A or MATH 30) and (STAT 128 or CSC 20), or consent of the instructor.
Term Typically Offered: Fall, Spring

Statistical analysis of large, complex data sets. Topics include memory efficient data processing, the split-apply-combine strategy, rewriting programs for scalability, handling complex data formats, and applications such as statistical learning, dimension reduction, and efficient data representation. Students will access data and run code on remote servers.

STAT 155. Introduction to Techniques of Operations Research. 3 Units
Prerequisite(s): MATH 31; STAT 50, STAT 103, or STAT 115A; MATH 31 may be taken concurrently.
Term Typically Offered: Spring only – odd years

Formulation and analysis of mathematical models with emphasis on real systems applications. Introduction to Queueing theory and Markov Processes for application.

STAT 196J. Statistical Computing. 3 Units
Prerequisite(s): STAT 1 or STAT 50, and MATH 26A or MATH 30
Term Typically Offered: Fall only

Computer methods for accessing, transforming, summarizing, graphing, and making statistical inferences from data. Both a command-line statistical software package such as R and menu-driven package such as SAS will be used. Students will learn to apply computer methods to solve problems selected from the areas of modeling, simulation, inference and statistical learning. The intent of this course is to provide students with the software skills needed for statistical work in industry or academia.

STAT 196L. Linear Models. 3 Units
Prerequisite(s): (Stat 1 or Stat 50) and (Math 35 or Math 100); an introductory programming course such as Math 64 or Stat 128 is recommended.
Term Typically Offered: Fall, Spring

Practical statistical modeling of data using professional-grade statistical software. Simple and multiple linear regression; analysis of variance; logistic regression; variable transformation; variable selection; model selection; residual analysis.

STAT 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work. Admission to this course requires approval of the instructor in addition to the approval of the advisor and the Department Chair. Credit/No Credit

STAT 215A. Introduction to Mathematical Statistics. 3 Units
Prerequisite(s): STAT 115A, STAT 115B; MATH 134 is recommended.
Term Typically Offered: Fall, Spring

Probability measure, conditional probability and independence, random variables, characteristic and moment-generating functions, modes of convergence.

STAT 215B. Topics in Introduction to Mathematical Statistics. 3 Units
Prerequisite(s): STAT 215A.
Term Typically Offered: Fall, Spring

Note: May be taken twice with approval of Graduate Coordinator.

STAT 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem may do so if the proposed subject is acceptable to the department committee, the supervising instructor and the student’s advisor.
BA in Mathematics

Units required for BA: 48-54
Total units required for BA: 120

Program Description

In today’s highly technological society, the study of Mathematics takes on an increasingly important role. The Sacramento State Mathematics Department designs its courses with the goal of providing students with the mathematical concepts appropriate to the student’s field.

Placement - Mathematics Courses

Students who have not completed four years of high school mathematics consisting of

- Beginning Algebra (one year)
- Geometry (one year)
- Intermediate Algebra-Trigonometry (one year)
- Analytic Geometry-Mathematical Analysis (one year)

may need to complete part of this preparation at the University. The following diagram, which is based upon course prerequisites and major objectives, may be of assistance in selecting the necessary coursework.

Satisfactory completion of the Entry Level Mathematics (ELM) requirement is a prerequisite to enroll ment in any mathematics or statistics course in Area B-4 (Quantitative Reasoning) of General Education. The mathematics and statistics courses listed in Area B-4 are:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MATH 1</td>
<td>Mathematical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 17</td>
<td>An Introduction to Exploration, Conjecture,</td>
<td>3</td>
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<tr>
<td></td>
<td>and Proof in Mathematics</td>
<td></td>
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<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>3</td>
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<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td>3</td>
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<tr>
<td>MATH 26B</td>
<td>Calculus II for the Social and Life Sciences</td>
<td>3</td>
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<tr>
<td>MATH 29</td>
<td>Pre-Calculus Mathematics</td>
<td>4</td>
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<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>MATH 35</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
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<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
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<tr>
<td>STAT 50</td>
<td>Introduction to Probability and Statistics</td>
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Students Planning to take any of the following courses must pass a diagnostic test.

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>MATH 9</td>
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<td>MATH 17</td>
<td>An Introduction to Exploration, Conjecture,</td>
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</tr>
<tr>
<td></td>
<td>and Proof in Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MATH 29</td>
<td>Pre-Calculus Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 29A</td>
<td>Pre-Calculus Mathematics A</td>
<td>2</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 107A</td>
<td>Fundamental Mathematical Concepts</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

A brochure describing the diagnostic tests and containing sample questions is available in the campus bookstore. The following table gives the course and appropriate diagnostic test.

Those students who want to prepare for the ELM may purchase the Entry Level Mathematics workbook at the Hornet Bookstore (see Placement Tests section of this catalog).

All students planning to take MATH 30, Calculus I, must take the Calculus Readiness test prior to the semester of enrollment in MATH 30.

Prerequisite Requirements

- Prerequisites must be completed with grade "C-" or better.
- Grade "C-" or better required in all courses applied to Mathematics major or to the Mathematics or Statistics minors.
- PHYS 11A and PHYS 11C are recommended for all Mathematics majors.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lower Division Core Courses (21 Units)</td>
<td></td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 32</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 35</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 45</td>
<td>Differential Equations for Science and Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- CSC 10 Introduction to Programming Logic
- CSC 15 Programming Concepts and Methodology I
- CSC 22 Visual Programming in BASIC
- CSC 25 Introduction to C Programming

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Upper Division Core Courses (15 Units)</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Introduction to Formal Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110A</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110B</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130A</td>
<td>Functions of a Real Variable</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130B</td>
<td>Functions of a Real Variable</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Additional Requirements for Specialized Study (12-18 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select an emphasis from the following four options:</td>
<td>12 - 18</td>
</tr>
<tr>
<td></td>
<td>Emphasis in Pure Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Emphasis in Applied Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Emphasis in Statistics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Teacher Preparation Program</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Units</td>
<td>48-54</td>
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</table>

1 Course also satisfies General Education (GE)/Graduation Requirement.
### Emphasis in Pure Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 117</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 134</td>
<td>Functions of a Complex Variable and Applications</td>
<td>3</td>
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</tbody>
</table>

Select two of the following: 6 - 11

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MATH 101</td>
<td>Combinatorics</td>
<td></td>
</tr>
<tr>
<td>MATH 102</td>
<td>Number Theory</td>
<td></td>
</tr>
<tr>
<td>MATH 104</td>
<td>Vector Analysis</td>
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<tr>
<td>MATH 105A</td>
<td>Advanced Mathematics for Science and Engineering I</td>
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</tr>
<tr>
<td>MATH 105B</td>
<td>Advanced Mathematics for Science and Engineering II</td>
<td></td>
</tr>
<tr>
<td>MATH 121</td>
<td>College Geometry</td>
<td></td>
</tr>
<tr>
<td>MATH 150</td>
<td>Introduction to Numerical Analysis</td>
<td></td>
</tr>
<tr>
<td>MATH 161</td>
<td>Mathematical Logic</td>
<td></td>
</tr>
<tr>
<td>MATH 162</td>
<td>Set Theory</td>
<td></td>
</tr>
<tr>
<td>MATH 170</td>
<td>Linear Programming</td>
<td></td>
</tr>
<tr>
<td>MATH 190</td>
<td>History Of Mathematics</td>
<td></td>
</tr>
<tr>
<td>STAT 115A</td>
<td>Introduction to Probability Theory ¹</td>
<td></td>
</tr>
<tr>
<td>STAT 115B</td>
<td>Introduction to Mathematical Statistics ¹</td>
<td></td>
</tr>
<tr>
<td>STAT 155</td>
<td>Introduction to Techniques of Operations Research</td>
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</table>

Total Units 12 - 17

¹ Has an extra prerequisite that is not in the lower or upper division core.

### Emphasis in Applied Mathematics

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<tr>
<td>MATH 105B</td>
<td>Advanced Mathematics for Science and Engineering II</td>
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</table>

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MATH 101</td>
<td>Combinatorics</td>
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</tr>
<tr>
<td>MATH 102</td>
<td>Number Theory</td>
<td></td>
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<tr>
<td>MATH 104</td>
<td>Vector Analysis</td>
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</tr>
<tr>
<td>MATH 117</td>
<td>Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 134</td>
<td>Functions of a Complex Variable and Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 150</td>
<td>Introduction to Numerical Analysis</td>
<td></td>
</tr>
<tr>
<td>MATH 170</td>
<td>Linear Programming</td>
<td></td>
</tr>
<tr>
<td>STAT 115A</td>
<td>Introduction to Probability Theory ¹</td>
<td></td>
</tr>
<tr>
<td>STAT 115B</td>
<td>Introduction to Mathematical Statistics ¹</td>
<td></td>
</tr>
<tr>
<td>STAT 155</td>
<td>Introduction to Techniques of Operations Research</td>
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</table>

Total Units 14

¹ Has an extra prerequisite that is not in the lower or upper division core.

### Emphasis in Statistics

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<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3 - 4</td>
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</tbody>
</table>

or STAT 50 Introduction to Probability and Statistics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 115A</td>
<td>Introduction to Probability Theory</td>
<td>3</td>
</tr>
<tr>
<td>STAT 115B</td>
<td>Introduction to Mathematical Statistics</td>
<td>3</td>
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</tbody>
</table>

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 101</td>
<td>Combinatorics</td>
<td></td>
</tr>
<tr>
<td>MATH 117</td>
<td>Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 134</td>
<td>Functions of a Complex Variable and Applications</td>
<td></td>
</tr>
<tr>
<td>MATH 150</td>
<td>Introduction to Numerical Analysis</td>
<td></td>
</tr>
<tr>
<td>MATH 170</td>
<td>Linear Programming</td>
<td></td>
</tr>
<tr>
<td>STAT 155</td>
<td>Introduction to Techniques of Operations Research</td>
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</tbody>
</table>

Total Units 15 - 16

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
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<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (10 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
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<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>Area D: The Individual and Society (9 Units)</td>
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<td></td>
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<tr>
<td>Area D Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
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<td></td>
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<tr>
<td>Area E Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area F: Ethnic Studies (3 Units)</td>
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<td></td>
</tr>
<tr>
<td>Area F Course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 46
To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Required in Major; also satisfies GE.

Graduation Requirements ¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Institutions: U.S. History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement ²</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

¹ To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

² If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-proficiency.html

Note: Due to continuing policy changes, it is important to consult a credential advisor for current details.

Admission Requirements

Admission requirements for the Blended Program include junior class standing with a minimum overall GPA of 2.67, a grade of "C-" or better in MATH 108, passing the Writing Placement for Juniors Exam (WPJ), spending and documenting at least 45 hours observing classes, tutoring, or teaching in a variety of settings in grades 7-12, taking all three sections of the California Basic Education Skills Test (CBEST), and submitting an application packet to the Department of Mathematics and Statistics. A completed application packet includes:

- an application form;
- an essay outlining reasons for entering a career in teaching;
- two letters of recommendation;
- two sets of transcripts from each college or university attended, other than Sacramento State; and
- one complete Sacramento State transcript.

The application packet may be submitted during the semester in which the requirements for admission are being completed, so the application may be submitted during the semester in which enrollment in MATH 108 occurs.

Prerequisite/Corequisite Requirements

There are three courses which are prerequisites or corequisites to the Blended Program and students are encouraged to take these courses prior to formal admission:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 170</td>
<td>Introduction to Bilingual Education: Policies, Principles, Programs, and Practices</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 100A</td>
<td>Educating Students with Disabilities in Inclusive Settings</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 100B</td>
<td>Educating Students with Disabilities in Inclusive Settings Lab</td>
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</tr>
<tr>
<td>HLSC 136</td>
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Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Division Core Courses (21 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I ¹</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II ¹</td>
<td>4</td>
</tr>
<tr>
<td>MATH 32</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 35</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 45</td>
<td>Differential Equations for Science and Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 10</td>
<td>Introduction to Programming Logic</td>
<td>3</td>
</tr>
<tr>
<td>CSC 15</td>
<td>Programming Concepts and Methodology I</td>
<td></td>
</tr>
<tr>
<td>CSC 22</td>
<td>Visual Programming in BASIC</td>
<td></td>
</tr>
<tr>
<td>CSC 25</td>
<td>Introduction to C Programming</td>
<td></td>
</tr>
<tr>
<td>Upper Division Core Courses (15 Units)</td>
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<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Introduction to Formal Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110A</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110B</td>
<td>Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130A</td>
<td>Functions of a Real Variable</td>
<td>3</td>
</tr>
</tbody>
</table>

Integrated Mathematics Major/Single Subject Credential Program

Units required for Major and Credential: 90

Program Description

Teaching credential candidates must complete the Professional Education Program in addition to other requirements for a teaching credential. Consult the Department credential advisor for details. You may also obtain information about the Professional Education Program from the Teacher Preparation and Credentials Office, Eureka Hall 216, (916) 278-6403.

Students in the Integrated Mathematics Major/Single Subject Credential Program (also called the Blended Program in Mathematics) begin their pedagogical studies while they are completing the mathematics courses required for the Bachelor’s degree in Mathematics. The mathematics requirements include all of the courses required for the subject matter program in mathematics (see above), and MATH 198. Students who are interested in being admitted to the Blended Program in Mathematics must plan ahead, and must see their advisor as soon as possible.
Integrated Mathematics Major/Single Subject Credential Program

MATH 130B Functions of a Real Variable 3

**Additional Requirements for Specialized Study (12-18 Units)**

Select an emphasis from the following four options:

- Emphasis in Pure Mathematics 12
- Emphasis in Applied Mathematics 18
- Emphasis in Statistics
- Teacher Preparation Program

**Total Units** 48-54

1 Course also satisfies General Education (GE)/Graduation Requirement.

**Emphasis in Teacher Preparation Program**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 102</td>
<td>Number Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 121</td>
<td>College Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 190</td>
<td>History Of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 193</td>
<td>Capstone Course for the Teaching Credential</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units** 15

In addition, students in the Blended Program take all the courses required for the Subject Matter Program in Mathematics (see above), as well as MATH 198 and the following education classes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>EDTE 373</td>
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<td>EDTE 373B</td>
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<td>EDTE 384</td>
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<td>EDTE 386</td>
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<td>EDTE 470A</td>
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<tr>
<td>MATH 316</td>
<td>The Psychology of Mathematics Instruction</td>
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<td>MATH 371A</td>
<td>Schools and Community A</td>
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<tr>
<td>MATH 371B</td>
<td>Schools and Community B</td>
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</table>

**Total Units** 6

**General Education Requirements**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>A1 - Oral Communication</td>
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</tr>
<tr>
<td>A2 - Written Communication</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>B1 - Physical Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts</td>
<td></td>
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</tr>
</tbody>
</table>

**Graduation Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Institutions: U.S. History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>English Composition II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Area C: Arts and Humanities (12 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1 - Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>C1/C2 - Area Course C</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Area D: The Individual and Society (12 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area D Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area D Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Area E: Understanding Personal Development (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area E Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units** 46

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
**MA in Mathematics**

Total units required for MA: 30, including at least 24 units of approved 200-level courses

**Program Description**

The Department of Mathematics and Statistics offers a Master of Arts degree in Mathematics. The MA program is designed to provide qualified students with an opportunity to increase the breadth and depth of their mathematical knowledge and understanding. Beyond assuring that successful candidates are proficient in the basic areas of mathematics, the program is sufficiently flexible to permit graduates to pursue individual professional and mathematical interests ranging from teaching at the secondary or community college level to a career in the private sector, to preparation for graduate study beyond the master's degree. Graduate courses are usually offered in the late afternoon to accommodate students who work full-time.

**Admission Requirements**

Admission as a classified graduate student in Mathematics requires:

- an undergraduate major in Mathematics which includes one year each of Modern Algebra and Advanced Calculus or an undergraduate major in a related field together with one year each of Modern Algebra and Advanced Calculus;

- a minimum 2.5 GPA; and

- a minimum 2.5 GPA in the last 60 units attempted and a 3.0 GPA in Mathematics coursework.

Students who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any such deficiencies will be noted on a written response to the admission application. No credit will be given towards the MA for the following:

- MATH 117
- MATH 120
- MATH 121
- MATH 122

**Admission Procedures**

Applications are accepted as long as room for new students exists. However, students are strongly urged to apply by the posted university application deadline for the fall or spring terms, in order to allow time for admission before registration. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission; and

- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

For more admissions information and application deadlines please visit [http://www.csus.edu/gradstudies/](http://www.csus.edu/gradstudies/).

Admission decisions are made approximately six to eight weeks after the application deadline date. Applicants will be notified of an admission decision via e-mail.

**Minimum Unit and Grade Requirement for the Degree**

Units required for the MA: 30 (including at least 24 units of approved 200-level courses).

Minimum Cumulative GPA: 3.0

**Note:** A foreign language is not required for the MA degree. However, students who plan further graduate study are encouraged to take coursework in French, German, or Russian since proficiency in two of these languages is usually required in doctoral programs.

**Advancement to Candidacy**

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;

- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least 12 units at the 200 level; and

- taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a Mathematics advisor. The completed form is then returned to the Office of Graduate Studies for approval.

**Program Requirements**

**Required Courses (30 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 210A</td>
<td>Algebraic Structures</td>
<td>3</td>
</tr>
<tr>
<td>MATH 210B</td>
<td>Algebraic Structures</td>
<td>3</td>
</tr>
<tr>
<td>MATH 230A</td>
<td>Real Analysis</td>
<td>8</td>
</tr>
<tr>
<td>MATH 230B</td>
<td>Real Analysis</td>
<td>8</td>
</tr>
</tbody>
</table>

Select four to six from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 202</td>
<td>Theory of Numbers</td>
<td>3</td>
</tr>
<tr>
<td>MATH 220A</td>
<td>Topology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 220B</td>
<td>Topics In Topology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 234A</td>
<td>Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 234B</td>
<td>Topics in Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 241A</td>
<td>Methods of Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 241B</td>
<td>Topics in Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 248</td>
<td>Lie Theory</td>
<td>3</td>
</tr>
<tr>
<td>STAT 215A</td>
<td>Introduction to Mathematical Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 215B</td>
<td>Topics in Introduction to Mathematical Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 296</td>
<td>Special Problems</td>
<td>3</td>
</tr>
</tbody>
</table>

Select zero to two of the following with advisor approval:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 117</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 161</td>
<td>Mathematical Logic</td>
<td>3</td>
</tr>
<tr>
<td>MATH 162</td>
<td>Set Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 299</td>
<td>Special Problems</td>
<td>3</td>
</tr>
<tr>
<td>STAT 115A</td>
<td>Introduction to Probability Theory</td>
<td>3</td>
</tr>
<tr>
<td>STAT 115B</td>
<td>Introduction to Mathematical Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in Mathematics

Units required for Minor: 20-23

Program Description

In today's highly technological society, the study of Mathematics takes on an increasingly important role. The Sacramento State Mathematics Department designs its courses with the goal of providing students with the mathematical concepts appropriate to the student's field.

All units must be taken in Mathematics or Statistics. A minimum of 8 upper division units is required. At least 6 upper division units must be taken at Sacramento State.

Placement - Mathematics Courses

Students who have not completed four years of high school mathematics consisting of

- Beginning Algebra (one year)
- Geometry (one year)
- Intermediate Algebra-Trigonometry (one year)
- Analytic Geometry-Mathematical Analysis (one year)

may need to complete part of this preparation at the University. The following diagram, which is based upon course prerequisites and major objectives, may be of assistance in selecting the necessary coursework.

Satisfactory completion of the Entry Level Mathematics (ELM) requirement is a prerequisite to enrollment in any mathematics or statistics course in Area B-4 (Quantitative Reasoning) of General Education. The mathematics and statistics courses listed in Area B-4 are:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1</td>
<td>Mathematical Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MATH 17</td>
<td>An Introduction to Exploration, Conjecture, and Proof in Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MATH 26B</td>
<td>Calculus II for the Social and Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MATH 29</td>
<td>Pre-Calculus Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 35</td>
<td>Introduction to Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 50</td>
<td>Introduction to Probability and Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

Students Planning to take any of the following courses must pass a diagnostic test.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 9</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MATH 11</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MATH 17</td>
<td>An Introduction to Exploration, Conjecture, and Proof in Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MATH 29</td>
<td>Pre-Calculus Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 29A</td>
<td>Pre-Calculus Mathematics A</td>
<td>2</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 107A</td>
<td>Fundamental Mathematical Concepts</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

A brochure describing the diagnostic tests and containing sample questions is available in the campus bookstore. The following table gives the course and appropriate diagnostic test.

Those students who want to prepare for the ELM may purchase the Entry Level Mathematics workbook at the Hornet Bookstore (see Placement Tests section of this catalog).

All students planning to take MATH 30, Calculus I, must take the Calculus Readiness test prior to the semester of enrollment in MATH 30.

Prerequisite Requirements

- Prerequisites must be completed with grade "C-" or better.
- Grade "C-" or better required in all courses applied to Mathematics major or to the Mathematics or Statistics minors.
- PHYS 11A and PHYS 11C are recommended for all Mathematics majors.

Program Requirements

Select one of the two following options.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 32</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 35</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>STAT 50</td>
<td>Introduction to Probability and Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 9 units of upper division Mathematics and/or Statistics courses selected with approval of a Mathematics advisor

Total Units: 20-21

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 32</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 45</td>
<td>Differential Equations for Science and Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>
**Minor in Statistics**

Units required for Minor: 21

**Program Description**

In today’s highly technological society, the study of Mathematics takes on an increasingly important role. The Sacramento State Mathematics Department designs its courses with the goal of providing students with the mathematical concepts appropriate to the student’s field.

All units must be taken in Mathematics or Statistics. A minimum of 6 upper division units is required. At least 6 upper division units must be taken at Sacramento State.

**Placement - Mathematics Courses**

Students who have not completed four years of high school mathematics consisting of

- Beginning Algebra (one year)
- Geometry (one year)
- Intermediate Algebra-Trigonometry (one year)
- Analytic Geometry-Mathematical Analysis (one year)

may need to complete part of this preparation at the University. The following diagram, which is based upon course prerequisites and major objectives, may be of assistance in selecting the necessary coursework.

Satisfactory completion of the Entry Level Mathematics (ELM) requirement is a prerequisite to enrollment in any mathematics or statistics course in Area B-4 (Quantitative Reasoning) of General Education. The mathematics and statistics courses listed in Area B-4 are:

**Prerequisite Requirements**

- Prerequisites must be completed with grade “C-” or better.
- Grade “C-” or better required in all courses applied to Mathematics major or to the Mathematics or Statistics minors.
- PHYS 11A and PHYS 11C are recommended for all Mathematics majors.

**Program Requirements**

**Physics and Astronomy**

*College of Natural Sciences and Mathematics*

**Program Description**

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

The Department of Physics and Astronomy at Sacramento State offers four degree programs: the BS in Physics, a BS in Physics with a concentration in Applied Physics, the BA in Physics, and the BA in...
Physics, Physics Teacher Concentration. The Department also offers Minor programs in Physics and Astronomy and Certificates in Scientific Instrument Development and Scientific Computing and Simulation. The BS degrees are recommended for students seeking a career in the technology sector or planning to pursue a graduate degree. The BA degree is recommended for students who are interested in teaching Physics in high school or who want a liberal arts education with an emphasis in Physics. Physics majors are encouraged to take additional mathematics and to develop skills in the use of computers.

Approximately 40 percent of the graduating physics majors from Sacramento State continue on to graduate school earning advanced degrees in Physics, Mathematics, Engineering, Environmental Science, Medicine, or Business. Another 50 percent find job opportunities in industrial and government laboratories or agencies. The remaining 10 percent obtain their teaching credential.

Degree Programs
Astronomy (p. 898)
Physics (p. 900)

Special Features
- In addition to providing a broad academic background and facility in analytic thinking, the study of physics fosters and emphasizes independent study experiences. Most physics students at Sacramento State typically spend a year working on a Senior Project, often in conjunction with a faculty member. These independent projects not only provide a vehicle for applying material learned in class and give students experience in electronics, measurement systems, computers, and machine shop work, but also teach students to work and think on their own. Faculty in the Department have been active in research in atomic physics, astrophysics, biophysics, condensed matter physics, high energy physics, instrumentation, liquid crystals, low temperature physics, optics, and physics education research.
- An advising system has been established by the Department of Physics and Astronomy to help students plan their schedules each semester, to discuss independent project possibilities, and to provide career and current job information. Because of the large number of sequential courses in the degree programs, the Department requires that each student contact his/her advisor before registering for classes each semester. Any student without an advisor should contact Professor Christopher Taylor in Sequoia Hall 230, or call (916) 278-6518.

Career Possibilities
A degree in physics will prepare you for a wide range of careers. The advanced problem solving, technical, and communication skills one develops alongside the physics knowledge in our degrees are highly valued by many industries. Recent graduates from our programs have an extremely diverse range of careers including: faculty members at colleges and universities, employees at National and State Laboratories and Agencies, teachers at middle and high school, engineers, scientific technicians, analysts, technical writers, computer programmers, and science policy.

Contact Information
Christopher Taylor, Department Chair
Heidi Yamazaki, Administrative Support Coordinator
Sequoia Hall 230

(916) 278-6518
Department of Physics and Astronomy Website (https://www.csus.edu/college/natural-sciences-mathematics/physics-astronomy/)

Faculty
BLOCK, MATTHEW
BUERKI, JEROME
DEGRAFFENREID, WILLIAM C.
JENSEN, MIKKEL
MARGONINER, VERA
MOSS, JOSHUA
OSBORNE, JACK H.
RAY, MICHAEL
SERGAN, VASSILI V.
SERGAN, TATIANA
TASHIRO, LYNN
TAYLOR, CHRISTOPHER L.

Astronomy
College of Natural Sciences and Mathematics

Program Description
Astronomy has played an important role in the development of modern science. Recent advances in technology and space exploration have made possible many remarkable new discoveries in astronomy. For both these reasons, the study of astronomy is an excellent way for the liberal arts student to gain an appreciation of scientific knowledge and methods, and is especially recommended for students who are preparing for a teaching career. The minor in astronomy, in combination with a major in a physical science, can help prepare students for graduate study in astronomy or astrophysics, or for a career in this field. More information about these possibilities is available from advisors in the Department of Physics and Astronomy.

Degree Program
Minor in Astronomy (p. 900)

Special Features
- Observation sessions are held in our facility on the roof of Amador Hall with a 14-inch Schmidt-Cassegrain instrument.
- Portable 10-inch Schmidt-Cassegrain telescopes, a solar telescope and a radio telescope are also available for use in courses and student projects.
- A modern computing facility is used for digital image analysis and data reduction, providing access to all major astronomical analysis software.
- 120 seat digital planetarium used as a classroom, and which provides public outreach opportunities for astronomy students and faculty.
Contact Information
Christopher Taylor, Department Chair
Heidi Yamazaki, Administrative Support Coordinator
Sequoia Hall 230
(916) 278-6518
Department of Physics and Astronomy Website (http://www.csus.edu/physics/)

Faculty
MARGONINER, VERA
TAYLOR, CHRISTOPHER

ASTR 4A. Introduction to the Solar System. 3 Units
Prerequisite(s): One year of high school geometry or instructor permission.
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Spring only

ASTR 4B. Introduction to Stars, Galaxies, and Cosmology. 3 Units
Prerequisite(s): One year high school geometry or instructor permission.
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring
Description and explanations of astronomical phenomena related to stars, galaxies, and cosmology. Structure and evolution of stellar and galactic systems. Occasional observation periods.

ASTR 4C. Introduction to Astrobiology. 3 Units
Prerequisite(s): One year high school geometry or instructor permission.
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall only

ASTR 6. Astronomical Observation Laboratory. 1 Unit
Prerequisite(s): ASTR 4A, ASTR 4B, or ASTR 4C with C- or better; may be taken concurrently.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring, Summer
Study and use of various telescopes; field observation of planets, stars, meteors, asteroids, the moon and sun; laboratory activities relevant to astronomy. Lab three hours.

ASTR 131. The Solar System and Space Exploration. 3 Units
Prerequisite(s): ASTR 4A or ASTR 4B or 4C or PHYS 11A or CHEM 1A and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Further Studies in Area B (B5)
Term Typically Offered: Fall only
Planets and satellites, including their composition, structure, and atmospheres, with emphasis on modern techniques and observations. Solar surface phenomena and their influence on planets through the solar wind. Comets, meteorites, and their implications for the origin and evolution of planets. Physical effects governing feasible forms of space exploration and colonization.
Note: This course is approved as a Writing Intensive course.

ASTR 132. Stars, Galaxies and Cosmology. 3 Units
Prerequisite(s): ASTR 4A or ASTR 4B or 4C or PHYS 11A or CHEM 1A and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Further Studies in Area B (B5)
Term Typically Offered: Spring only
Types and evolution of stars; structure and evolution of galaxies; overall structure of the universe; current developments in astronomy.
Note: This course is approved as a Writing Intensive course.

ASTR 150. Dark Matter and Dark Energy. 3 Units
Prerequisite(s): PHYS 106
Corequisite(s): PHYS 110
Term Typically Offered: Spring only – odd years
Introduction to historical, observational and theoretical principles of dark matter and dark energy in the Universe. Topics will include dark matter in galaxies (rotation curves, stellar motions), dark matter in clusters (virial theorem, x-ray observations), MACHOs and WIMPs as dark matter candidates, as well as the discovery of dark energy through supernovae observations, and additional probes of dark energy. Dark matter and dark energy will be discussed in the cosmological context of the Big Bang theory.

ASTR 180. Through Space and Time in the Planetarium. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
An exploration of the heavens through space and time using the planetarium as an investigative tool. This course covers the historical, observational and theoretical principles of astronomy. Topics include the nature of science, structure of the universe, the sky view, orbital motions, precession, constellations, lunar phases and eclipses. The course will also explore the observational evidence for modern and ancient world views.
Minor in Astronomy

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses (12 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTR 4A</td>
<td>Introduction to the Solar System</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 4B</td>
<td>Introduction to Stars, Galaxies, and Cosmology</td>
<td></td>
</tr>
<tr>
<td>ASTR 4C</td>
<td>Introduction to Astrobiology</td>
<td></td>
</tr>
<tr>
<td>ASTR 6</td>
<td>Astronomical Observation Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ASTR 131</td>
<td>The Solar System and Space Exploration</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 132</td>
<td>Stars, Galaxies and Cosmology</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 199</td>
<td>Special Problems</td>
<td>2</td>
</tr>
<tr>
<td><strong>Elective Courses (6 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 142</td>
<td>Introduction to Physical Chemistry</td>
<td></td>
</tr>
<tr>
<td>CSC 25</td>
<td>Introduction to C Programming</td>
<td></td>
</tr>
<tr>
<td>GEOG 107</td>
<td>Remote Sensing</td>
<td></td>
</tr>
<tr>
<td>GEOG 113</td>
<td>Climate</td>
<td></td>
</tr>
<tr>
<td>GEOG 116</td>
<td>Global Climate Change</td>
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<tr>
<td>GEOL 114</td>
<td>Volcanology</td>
<td></td>
</tr>
<tr>
<td>PHIL 125</td>
<td>Philosophy Of Science</td>
<td></td>
</tr>
<tr>
<td>PHSC/HIST 107</td>
<td>History of the Physical Sciences</td>
<td></td>
</tr>
<tr>
<td>PHYS 136</td>
<td>Electrodynamics of Waves, Radiation, and Materials</td>
<td></td>
</tr>
<tr>
<td>PHYS 145</td>
<td>Optics</td>
<td></td>
</tr>
<tr>
<td>PHYS 162</td>
<td>Scientific Computing: Basic Methods</td>
<td></td>
</tr>
<tr>
<td>STAT 50</td>
<td>Introduction to Probability and Statistics</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 18

1 Substitutions of up to 4 units of Physics and Physical Science courses are possible; consult a Department of Physics and Astronomy advisor.

Physics

Program Description

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

Approximately 40 percent of the graduating physics majors from Sacramento State continue on to graduate school earning advanced degrees in Physics, Mathematics, Engineering, Environmental Science, Medicine, or Business. Another 50 percent find job opportunities in industrial and government laboratories or agencies. The remaining 10 percent obtain their teaching credential.

Degree Programs

BA in Physics (p. 905)

BA in Physics (Teacher Preparation) (p. 906)

BS in Physics (p. 908)

BS in Physics (Applied Physics) (p. 910)

Minor in Physics (p. 912)

Certificate in Scientific Computing and Simulation (p. 912)

Certificate in Scientific Instrument Development (p. 912)

Special Features

• In addition to providing a broad academic background and facility in analytic thinking, the study of physics fosters and emphasizes independent study experiences. Most physics students at Sacramento State typically spend a year working on a Senior Project, often in conjunction with a faculty member. These independent projects not only provide a vehicle for applying material learned in class and give students experience in electronics, measurement systems, computers, and machine shop work, but also teach students to work and think on their own. Faculty in the Department have been active in research in atomic physics, astrophysics, biophysics, condensed matter physics, high energy physics, instrumentation, liquid crystals, low temperature physics, optics, and physics education research.

• An advising system has been established by the Department of Physics and Astronomy to help students plan their schedules each semester, to discuss independent project possibilities, and to provide career and current job information. Because of the large number of sequential courses in the degree programs, the Department requires that each student contact his/her advisor before registering for classes each semester. Any student without an advisor should
contact Professor William DeGraffenreid in Sequoia Hall 230, or call (916) 278-6518.

Career Possibilities
A degree in physics will prepare you for a wide range of careers. The advanced problem solving, technical, and communication skills one develops alongside the physics knowledge in our degrees are highly valued by many industries. Recent graduates from our programs have an extremely diverse range of careers including: faculty members at colleges and universities, employees at National and State Laboratories and Agencies, teachers at middle and high school, engineers, scientific technicians, analysts, technical writers, computer programmers, and science policy.

Contact Information
Christopher Taylor, Department Chair
Heidi Yamazaki, Administrative Support Coordinator
Sequoia Hall 230
(916) 278-6518

Department of Physics and Astronomy (http://www.csus.edu/physics/)

Faculty
BARNIOL DURAN, RODOLFO

BLOCK, MATTHEW

BUERKI, JEROME

DEGRAFFENREID, WILLIAM C.

JENSEN, MIKKEL

MARGONINER, VERA

MORRIS, ELIZA

MOSS, JOSHUA

PETTITT, ALEXANDER

RAY, MICHAEL

SERGAN, VASSILI V.

SERGAN, TATIANA

TASHIRO, LYNN

TAYLOR, CHRISTOPHER L.

PHYS 1. Physical Reasoning and Calculation. 2 Units
Term Typically Offered: Fall, Spring

Introduction to the analytical skills needed for the study of Physics. The focus is to prepare students to take PHYS 11A; however, PHYS 1 is also suitable as preparation for PHYS 5A. Emphasis is on reasoning and problem-solving, including conceptualualization, visualization, and interpretation of written descriptions of physical situations, and on the connection of physical laws to the mathematical techniques used in their solution.

PHYS 2. Topics in Elementary Physics. 4 Units
Prerequisite(s): A recent one year course in high school algebra and one year of plane geometry or a college course in algebra (MATH 9).

General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

One semester introductory physics course including a laboratory. Covers the fundamental concepts of physics with an emphasis on everyday life situations and applications. The range of material includes mechanics, waves, electricity and optics. One hour lecture, two hour discussion, and a three hour laboratory session.

PHYS 5A. General Physics: Mechanics, Heat, Sound. 4 Units
Prerequisite(s): Recently completed three years of high school algebra and geometry; and a college course in algebra and trigonometry (MATH 9 recommended) for those having an inadequate mathematics background.

General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

PHYS 5A-B sequence is a two-semester course in introductory physics in which fundamental concepts are emphasized including some physiological applications. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 5B. General Physics: Light, Electricity and Magnetism, Modern Physics. 4 Units
Prerequisite(s): PHYS 5A or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Lecture two hours; discussion one hour; laboratory three hours.

PHYS 10. Physics In Our World. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Introductory course designed for non-science students completing general education requirements. Students will be introduced to basic concepts in Physics through the study of astronomy, atomic nature of matter, electromagnetic waves, energy, sound and earthquake waves, current electricity, magnetism, and nuclear processes. Development of reasoning and quantitative skills and applying them to scientific and technological topics of current importance will be emphasized.

PHYS 10L. Physics in Our World Laboratory. 1 Unit
Prerequisite(s): PHYS 10; may be taken concurrently.
Term Typically Offered: Fall, Spring

Laboratory course complements PHYS 10 and satisfies the general education science lab requirement. Emphasis is placed on the nature of scientific observation and measurement and their relationship to general physical concepts. Students will be given a concrete, hands-on sense of observing and interpreting data from a variety of experimental environments.
PHYS 11A. General Physics: Mechanics. 4 Units
Prerequisite(s): MATH 30, MATH 31; or equivalent certificated high school courses. MATH 31 may be taken concurrently.
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

PHYS 11B. General Physics: Heat, Light, Sound, Modern Physics. 4 Units
Prerequisite(s): PHYS 11C.
Term Typically Offered: Fall, Spring

PHYS 11C. General Physics: Electricity and Magnetism. 4 Units
Prerequisite(s): MATH 31, PHYS 11A.
Term Typically Offered: Fall, Spring, Summer

PHYS 30. Science and Pseudoscience. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

PHYS 99. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to assume individual work on the approval of the instructor. For students with lower division status. Up to 4 units may be taken for grade.
Credit/No Credit

PHYS 105. Mathematical Methods in Physics. 3 Units
Prerequisite(s): MATH 32, MATH 45, PHYS 11A, PHYS 11B, PHYS 11C or PHYS 5A, PHYS 5B.
Term Typically Offered: Fall only

Linear algebra, linear vector spaces, linear transformations, the eigenvalue problem, Sturm-Liouville Theory. Solving PDEs common to physical systems. Fourier transforms, Dirac delta function, differential and integral vector calculus with a focus on applications to problems in physics, such as classical mechanics, thermodynamics, quantum mechanics, and electromagnetism.

PHYS 106. Introduction to Modern Physics. 3 Units
Prerequisite(s): MATH 31, PHYS 11A, PHYS 11B, PHYS 11C or PHYS 5A, PHYS 5B.
Term Typically Offered: Fall, Spring

Basic concepts of special relativity and quantum theory of matter. Phenomenological study of atomic and molecular energy states and spectra. Elements of solid-state and nuclear physics.

PHYS 107. Conceptual Physics and Scientific Inquiry. 4 Units
Prerequisite(s): BIO 7, CHEM 106, GEOL 8, MATH 17.
Corequisite(s): CHEM 106
Term Typically Offered: Fall, Spring

Concepts include matter, waves and energy, force and motion, electricity and magnetism, and scientific inquiry. Emphasizes hands-on cooperative learning engaging students in scientific inquiry by posing testable scientific questions, conducting experiments, and analyzing and presenting findings to their peers. Appropriate for Liberal Studies and Blended Multiple Subject Credential students. Weekly activity and discussion sessions.

PHYS 108. Classical Mechanics. 3 Units
Prerequisite(s): MATH 45, PHYS 11C, PHYS 105.
Term Typically Offered: Spring only

Fundamental principles of statics and dynamics, including Newton’s equations and conservation laws, damped and forced oscillations, central force motion, accelerated coordinate systems, coupled oscillations, normal modes, Lagrangian and Hamiltonian methods, introduction to nonlinear systems and chaos theory.

PHYS 115. Electronics and Instrumentation. 4 Units
Prerequisite(s): PHYS 11C or PHYS 5B with instructor permission.
Term Typically Offered: Fall only

Linear and non-linear circuits, operational amplifiers, transducers, basics of digital circuitry, and an introduction to computerized data acquisition. Lecture two hours; laboratory six hours.

PHYS 116. Advanced Electronics and Instrumentation. 3 Units
Prerequisite(s): PHYS 115.
Term Typically Offered: Spring only – even years

Noise reduction techniques, signal recovery, frequency analysis, computerized instrument control, and instrument development. Lecture one hour; laboratory six hours.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Term Typically Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 124.</td>
<td>Thermodynamics and Statistical Mechanics.</td>
<td>3 Units</td>
<td>MATH 45, PHYS 11A, PHYS 11B, PHYS 11C.</td>
<td>Spring only</td>
</tr>
<tr>
<td>PHYS 130.</td>
<td>Acoustics.</td>
<td>3 Units</td>
<td>MATH 45, PHYS 11A, PHYS 11B, PHYS 11C.</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>PHYS 135.</td>
<td>Electricity And Magnetism.</td>
<td>3 Units</td>
<td>MATH 45, PHYS 11C, PHYS 105.</td>
<td>Spring only</td>
</tr>
<tr>
<td>PHYS 136.</td>
<td>Electrodynamics of Waves, Radiation, and Materials.</td>
<td>3 Units</td>
<td>PHYS 135.</td>
<td>Fall only</td>
</tr>
<tr>
<td>PHYS 142.</td>
<td>Applied Solid State Physics.</td>
<td>3 Units</td>
<td>MATH 45, PHYS 106.</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>PHYS 145.</td>
<td>Optics.</td>
<td>3 Units</td>
<td>MATH 45, PHYS 11A, PHYS 11B, PHYS 11C.</td>
<td>Spring only – even years</td>
</tr>
<tr>
<td>PHYS 150.</td>
<td>Quantum Mechanics.</td>
<td>3 Units</td>
<td>MATH 45, PHYS 106, PHYS 110.</td>
<td>Fall only</td>
</tr>
<tr>
<td>PHYS 151.</td>
<td>Advanced Modern Physics.</td>
<td>3 Units</td>
<td>PHYS 150.</td>
<td>Spring only</td>
</tr>
<tr>
<td>PHYS 156.</td>
<td>Classical and Statistical Mechanics.</td>
<td>3 Units</td>
<td>PHYS 110, PHYS 124.</td>
<td>Fall only</td>
</tr>
<tr>
<td>PHYS 162.</td>
<td>Scientific Computing: Basic Methods.</td>
<td>3 Units</td>
<td>MATH 26A or MATH 30 and PHYS 5A, or MATH 30 and PHYS 11A, or MATH 105A concurrently.</td>
<td>Fall only</td>
</tr>
<tr>
<td>PHYS 163.</td>
<td>Scientific Computing: Modeling, Simulation, and Visualization.</td>
<td>3 Units</td>
<td>PHYS 162.</td>
<td>Spring only</td>
</tr>
<tr>
<td>PHYS 172.</td>
<td>Biological Physics.</td>
<td>3 Units</td>
<td>MATH 26A or MATH 30, PHYS 5A and PHYS 5B; or PHYS 11A and PHYS 11B and PHYS 11C.</td>
<td>Fall only</td>
</tr>
</tbody>
</table>

Basic concepts and laws of thermodynamics and thermal properties of matter; kinetic theory of gases; use of distribution functions and ensembles in statistical mechanics; connection of probability and entropy; quantum statistics; applications to various systems.

Theoretical and experimental study of sound sources, sound waves and sound measurement. Basic properties of waves in continuous media; spectral analysis of vibrations; use of acoustic impedance and circuit analogies; applications to environmental noise analysis, room acoustics, and loudspeaker and microphone design and use; experience with acoustic instrumentation. Lecture two hours; laboratory three hours.

Electromagnetic waves, wave propagation in material media, reflection and refraction, polarization, cavities and waveguides, optical fibers, simple radiating systems, radiation from an accelerated charge and special relativity. Introduction to plasma physics and electromagnetic properties of superconductors.

Elementary treatment of crystal structure and lattice and electron dynamics. Physics of semiconductor junctions, diodes, transistors and MOSFETS, solar cells, lasers, electro-optic and acousto-optic devices. Introduction to basic physical properties such as electrical conduction of selected amorphous solids and their applications. Laboratory experience.

Theoretical and experimental treatment of wave optics; interference, diffraction, absorption, scattering, dispersion, polarization. Selected topics from contemporary optics: Fourier optics, coherence theory, lasers, holography. Lecture two hours; laboratory three hours.

Foundations of wave mechanics, including wave packets, superposition, and the uncertainty principle. The Schroedinger equation and its relation to operators and eigenstates. Symmetric systems and conserved quantities. Introduction to matrix mechanics, spin, scattering, and perturbation theory.

Structure of matter including basic elements of atoms, molecular, solid state, nuclear and particle physics. Topics will also include photon and electron gases, lasers, superconductivity, Bose-Einstein condensation and superfluidity.


Basic methods and skills of applying computers to the solution of scientific problems. Numerical calculation methods, numbers and data, algebraic equations, rate processes, iterative techniques, approximation methods, statistical analysis and data fitting, relaxation methods, and use of software and other programming resources on the web. Practical experience emphasized throughout.

Application of computer modeling, simulation, and visualization to the solution of scientific problems. Projects drawn from various scientific disciplines will be used to develop the necessary skills, including a capstone project. Examples include projectile motion with air drag, time development of a biological population, chemical reactions with several reactants, and random walk and Monte Carlo methods. Practical experience emphasized throughout.

Investigation of subcellular and cellular biological systems using the fundamentals of physics. Topics will include a quantitative treatment of: the role of forces and energy in biology; thermodynamics of living systems; biopolymer, cytoskeletal and cellular mechanics; the physics of molecular motors and intracellular transport; applications of physical tools to study biological systems. Focus is on the interplay between physics and biology, and on how physical properties determine the biological function and behavior of living systems.

Note: PHYS 11B or PHYS 5B may be taken concurrently with instructors consent; no biology coursework is required, though some knowledge of cell biology is helpful, and it is recommended that students consider taking a lower-division college course in biology prior to enrollment.
PHYS 175. Advanced Physics Laboratory. 2 Units
Prerequisite(s): 12 units of upper division physics, including PHYS 106 and either PHYS 115 or PHYS 145 and a satisfaction of the Advanced Writing requirement.
Term Typically Offered: Fall, Spring

Advanced experiments chosen from several of the major areas of physics, performed usually on an individual basis. Laboratory six hours.

PHYS 181. Modern Physics for Everyone. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
A conceptual course in the topics of modern physics including Quantum Mechanics, Special Relativity, and other contemporary topics for a general audience. This course meets General Education Area B5 (Further Studies in Physical Science, Life Forms, and Quantitative Reasoning) and satisfies the upper-division Area B requirement.

PHYS 182. Physics of Sports. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

A conceptual course in the application of the laws of physics in the context of sport. Focusing mainly on classical physics, we will cover topics such as force, energy, momentum, collisions, pressure, and fluids to explain what we see on the court, field, pool, and road. This course meets General Education Area B5 (Further Studies in Physical Science, Life Forms, and Quantitative Reasoning) and satisfies the upper-division Area B requirement.

PHYS 184. Physics of Energy and the Environment. 3 Units
Prerequisite(s): Completion of GE Area B1
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Our society requires and consumes energy. In this course, students will gain an understanding of the wide variety of our energy sources and how the energy is generated, distributed, and stored. We will examine the large scale and small scale role that energy plays in society and the impact that energy policy and practices have on the environment.

PHYS 186. Musical Acoustics: Science and Sound. 3 Units
Prerequisite(s): Completion of GE Area B1
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Physical principles of vibration and wave motion, with illustrations involving musical instruments and concert hall acoustics; principles of electronic synthesis, recording, and reproduction of sound; operation of the human ear and brain in receiving and analyzing sound; relation of the harmonic series to sound quality, harmony and scales; proper roles for science in explaining music as an artistic activity.
Note: No technical background required; course cannot be used to meet Physics BS program requirements. It is recommended that student have already completed their B1 and B4 requirement prior to enrollment. Some experience with music is also helpful.

PHYS 187. Seeing the Light. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only

An extensive study of light, mostly in the context of applications. Topics include basics of light and natural phenomena, optics, color, light and energy (solar power), and holography; as well as more advanced topics such as wave/particle model of light, diffraction and polarization. The course will also cover optical instrumentation such as cameras, microscopes, telescopes, displays, and photoreceptors.

PHYS 190. Physics Seminar. 1 - 2 Units
Term Typically Offered: Fall, Spring

Special lecture series on announced topics by local and visiting speakers, emphasizing current research developments, with related reading assignments.
Note: May be taken for credit in sequential semesters for a maximum of two units total.

PHYS 191. Senior Project. 1 - 2 Units
Prerequisite(s): Department chair permission.
Term Typically Offered: Fall, Spring

Research Project under faculty supervision. Project may consist of laboratory or theoretical research project, instrumentation/demonstration development, or literature research project. Projects require written and oral reports.
Note: May be taken for credit in sequential semesters for a maximum of four units total. Grade assigned upon completion of the project.

PHYS 194. Physics Related Work Experience. 6 - 12 Units
Prerequisite(s): Upper-division status and Department Chair permission.
Term Typically Offered: Fall, Spring

Supervised employment in a physics or astronomy related company or agency. Placement is arranged through the department and the Cooperative Education Program office. Requires completion of a three-to-six month work assignment and a written report.
Note: PHYS 194 may not be used to meet major requirements in Physics; May be taken for credit in sequential semesters

PHYS 195. Teaching Internship. 1 - 2 Units
Prerequisite(s): Completion of all math and physics lower division courses for the B.A. in Physics. Approval from the Teacher Preparation Concentration Coordinator.
Term Typically Offered: Fall, Spring

Supervised teaching internship for high school physics class, or for one of the following courses: PHYS 2, 5A-B, 10, 11A-C, 107, or ASTR4. The students will meet weekly with the faculty teaching this class, and with their supervisor or mentor to help prepare and teach the class.
Note: May be taken for credit in sequential semesters for a maximum of six units total.
PHYS 197. Laboratory Teaching Assistant. 1 - 2 Units
Prerequisite(s): Completion of all physics and math lower division courses required for the B.A. in Physics. Completion of the same course in which the student will take this class with a grade higher than B and/or consent from the Teacher Preparation Concentration program coordinator.
Term Typically Offered: Fall only

Student will be a supervised laboratory teaching assistant for one of the following courses: PHYS 2, 5A-B, 10, 11A-C, 107, or ASTR 6. The student will meet weekly with the faculty teaching this class, and with their supervisor or mentor to help prepare and teach the laboratory.
Note: May be taken for credit in sequential semesters for a maximum of six units total.

PHYS 198. Co-Curricular Activities. 1 - 3 Units
Term Typically Offered: Spring only

Students may provide special tutoring to students taking physics courses, participate in community oriented projects, assist in activity sessions for teacher training courses, or engage in activities related to the subject matter and concerns of the Physics and Astronomy Department. Up to 4 units may be taken.
Credit/No Credit

PHYS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to assume individual work on the approval of the instructor. Up to 4 units may be taken.
Credit/No Credit

PHSC 75. Introduction to Machine Shop Practices. 2 Units
Term Typically Offered: Fall, Spring

Safe machine operation techniques on common fabrication equipment. Reading and calibrating measuring devices, gauging and optical gauging. Study of measuring conventions and understanding of precision. Interpretation of drawings, tolerances and tactics for maintaining tolerances. Jigs and mounts for dynamic data collection equipment. Prototype manufacturing. Students completing this course qualify to perform work in the shop with minimum supervision. Lecture one hour; Laboratory three hours.

PHSC 107. History of the Physical Sciences. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Study of the development of the major physical laws presently used in describing our physical world. Some considerations of the influences of these developments on other areas of knowledge and on society in general.
Cross Listed: HIST 107; only one may be counted for credit.

PHSC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to assume individual work on the approval of the instructor. Up to 4 units may be taken for grade.
Credit/No Credit

BA in Physics

Units required for Major: 65-67
Total units required for BA: 120

Program Description

The BA degree is recommended for students who are interested in teaching Physics in high school or who want a liberal arts education with an emphasis in Physics. Physics majors are encouraged to take additional mathematics and to develop skills in the use of computers.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 32</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 45</td>
<td>Differential Equations for Science and Engineering</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism</td>
<td>4</td>
</tr>
</tbody>
</table>

Required Upper Division Courses (20-22 Units)

PHYS 105 | Mathematical Methods in Physics                         | 3 - 4 |
PHYS 106 | Introduction to Modern Physics                          | 3     |
PHYS 110 | Classical Mechanics                                     | 3     |
PHYS 115 | Electronics and Instrumentation                         | 3 - 4 |
PHYS 117 | Advanced Physics Laboratory                             | 2     |

Elective Upper Division Requirements (8 Units)

Select 8 units of Physics electives in consultation with a Physics advisor

Physics Colloquium Attendance
Fulfill a minimum attendance requirement

Total Units 65-67

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 See list below for a list of Department approved electives.
Elective List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 115</td>
<td>Electronics and Instrumentation ¹</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 116</td>
<td>Advanced Electronics and Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 130</td>
<td>Acoustics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 136</td>
<td>Electrodynamics of Waves, Radiation, and Materials</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 145</td>
<td>Optics ³</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 150</td>
<td>Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 151</td>
<td>Advanced Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 156</td>
<td>Classical and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 162</td>
<td>Scientific Computing: Basic Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 163</td>
<td>Scientific Computing: Modeling, Simulation, and Visualization</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 195</td>
<td>Teaching Internship</td>
<td>1-2</td>
</tr>
</tbody>
</table>

¹ If not used to satisfy other requirement of the degree (Example: PHYS 115 or PHYS 145 are required for the Bachelor of Science. If both are taken, one will count as an elective).

² Required in Major; also satisfies GE.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Title</td>
<td>Units</td>
</tr>
<tr>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement ²</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

¹ To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

² To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (6 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science ²</td>
<td>0</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) ²</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts ²</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

Area D: The Individual and Society (9 Units)

| Area D Course                                      | 3     |
| Area D Course                                      | 3     |
| Area D Course - Take upper-division course to complete Area & upper division requirements. | 3     |

Area E: Understanding Personal Development (3 Units)

| Area E Course                                      | 3     |

Area P: Ethnic Studies (3 Units)

| Area F Course                                      | 3     |

Total Units 42

BA in Physics (Teacher Preparation)

Units required for Major: 86-87
Total units required for BA: 120

Program Description

The Science Subject Matter Program (SSMP), with emphases in Biological Sciences, Chemistry, and Physics, leads to a BA degree in the area of emphasis. It also meets the latest California Commission on Teacher Credentialing (CCTC) subject-matter requirement to
enter a teaching credential program in California. In order to obtain a California K-12 Teaching Credential, a program of professional education preparation (a teaching credential program) is required in addition to completing the SSMP. Completing the SSMP and teaching credential program allows graduates to teach all four sciences (biology, chemistry, geoscience, and physics) at the general/integrated 7th-12th grade science level, in addition to the student’s area of concentration at the advanced high school level. A typical credential might read, for example, SCIENCE: Chemistry.

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

The BA degree is recommended for students who are interested in teaching Physics in high school or who want a liberal arts education with an emphasis in Physics. Physics majors are encouraged to take additional mathematics and to develop skills in the use of computers.

Currently there is a serious need in public school education for well-educated science teachers. Physics majors who have an interest in teaching should see the credential advisor in the Department (Dr. Vera Margoniner) to plan an academic program and to explore ways to get involved in teaching-related activities such as tutoring, grading, and working in the schools.

Currently there is a great need for K-12 teachers educated in science. Changes in State Board of Education Standards and increasing interest in Biological Sciences have created significant demands for students with this credential. Biological Sciences majors who have an interest in teaching should contact one of the credential advisors in the Biological Sciences Department, Melanie Loo.

**Note:**

- It is also possible to obtain admission to the Professional Education Program by passing a series of subject-matter examinations specified by the CTC in lieu of this Science Subject Matter Program. For information about this option contact the Teacher Preparation Program Office, Eureka Hall 216, (916) 278-6403.
- Due to policy changes from the California Commission on Teacher Credentialing and the federal No Child Left Behind mandate, the Science Subject Matter program was under review at the time of this catalog printing and is subject to revision. As a result it is important to consult a credential advisor for current details.

**Minimum Grade Requirement**

A grade of at least a "C-" in all required Science Subject Matter Program courses is necessary in order to meet subject matter requirements for admission to a teaching credential program. If a grade of "C-" is not achieved in all SSMP courses, then the current CTC approved subject matter exam must be successfully passed in order to be eligible for admission to a teaching credential program (the current exam is the CSET, tests I, II, and III).

**Note:** It is recommended that all coursework for the SSMP be completed before starting the Teacher Education Program. At least 15 units of the coursework or equivalent work experience must be current, i.e., completed within the past six years.

## Program Requirements

### Required Lower Division Courses (58 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 4A</td>
<td>Introduction to the Solar System</td>
<td>3</td>
</tr>
<tr>
<td>or ASTR 4B</td>
<td>Introduction to Stars, Galaxies, and Cosmology</td>
<td>3</td>
</tr>
<tr>
<td>or ASTR 4C</td>
<td>Introduction to Astrobiology</td>
<td></td>
</tr>
<tr>
<td>ASTR 6</td>
<td>Astronomical Observation Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>5</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>ENVS 10</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 10</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 10L</td>
<td>Physical Geology Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 32</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 45</td>
<td>Differential Equations for Science and Engineering</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism</td>
<td>4</td>
</tr>
</tbody>
</table>

### Required Upper Division Courses (22-23 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 105</td>
<td>Mathematical Methods in Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 106</td>
<td>Introduction to Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 110</td>
<td>Classical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 115</td>
<td>Electronics and Instrumentation</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 124</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 135</td>
<td>Electricity And Magnetism</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 175</td>
<td>Advanced Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 191</td>
<td>Senior Project</td>
<td>1-2</td>
</tr>
</tbody>
</table>

### Elective Upper Division Requirements (6 Units)

Select 6 units of upper-division coursework chosen in consultation with physics advisor.

### Physics Colloquium Attendance

Fulfill a minimum attendance requirement.

| Total Units | 86-87 |

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. See list below for a list of Department approved electives.
3. Majors must fulfill a minimum attendance requirement at Department Colloquia. Students should consult with the Department for details.

## Elective List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 115</td>
<td>Electronics and Instrumentation</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 116</td>
<td>Advanced Electronics and Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 130</td>
<td>Acoustics</td>
<td>3</td>
</tr>
</tbody>
</table>
### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking ³</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science ²</td>
<td>2</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms ²</td>
<td>2</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts ²</td>
<td>2</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>D1</td>
<td>The Individual and Society (9 Units)</td>
<td></td>
</tr>
<tr>
<td>D1</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>E1</td>
<td>Understanding Personal Development (3 Units)</td>
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</tr>
<tr>
<td>E1</td>
<td>Area E Course</td>
<td>3</td>
</tr>
<tr>
<td>F1</td>
<td>Ethnic Studies (3 Units)</td>
<td></td>
</tr>
</tbody>
</table>

### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking ³</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science ²</td>
<td>2</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms ²</td>
<td>2</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts ²</td>
<td>2</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>D1</td>
<td>The Individual and Society (9 Units)</td>
<td></td>
</tr>
<tr>
<td>D1</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>E1</td>
<td>Understanding Personal Development (3 Units)</td>
<td></td>
</tr>
<tr>
<td>E1</td>
<td>Area E Course</td>
<td>3</td>
</tr>
<tr>
<td>F1</td>
<td>Ethnic Studies (3 Units)</td>
<td></td>
</tr>
</tbody>
</table>

### Program Description

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

The BS degrees are recommended for students seeking a career in the technology sector or planning to pursue a graduate degree.
Note: Students graduating with a Bachelor of Science Degree in Physics will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 32</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 45</td>
<td>Differential Equations for Science and Engineering</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism</td>
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</table>

Required Upper Division Courses (33-36 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PHYS 105</td>
<td>Mathematical Methods in Physics</td>
<td>3-4</td>
</tr>
<tr>
<td>or MATH 105A</td>
<td>Advanced Mathematics for Science and Engineering</td>
<td>1-4</td>
</tr>
<tr>
<td>PHYS 106</td>
<td>Introduction to Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 110</td>
<td>Classical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 115</td>
<td>Electronics and Instrumentation</td>
<td>3-4</td>
</tr>
<tr>
<td>or PHYS 145</td>
<td>Optics</td>
<td></td>
</tr>
<tr>
<td>PHYS 124</td>
<td>Thermodynamics and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 135</td>
<td>Electricity And Magnetism</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 136</td>
<td>Electrodynamics of Waves, Radiation,and Materials</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 150</td>
<td>Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 151</td>
<td>Advanced Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 156</td>
<td>Classical and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 175</td>
<td>Advanced Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 191</td>
<td>Senior Project</td>
<td>1-2</td>
</tr>
</tbody>
</table>

Elective Upper Division Requirements (3 Units)

Select three units of upper-division coursework chosen in consultation with an advisor

Physic Colloquium Attendance

Fulfill a minimum attendance requirement

Total Units 73-76

Elective List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 115</td>
<td>Electronics and Instrumentation</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 116</td>
<td>Advanced Electronics and Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 130</td>
<td>Acoustics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 142</td>
<td>Applied Solid State Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 145</td>
<td>Optics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 162</td>
<td>Scientific Computing: Basic Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 163</td>
<td>Scientific Computing: Modeling, Simulation, and Visualization</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 199</td>
<td>Special Problems</td>
<td>1-3</td>
</tr>
<tr>
<td>ASTR 150</td>
<td>Dark Matter and Dark Energy</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105B</td>
<td>Advanced Mathematics for Science and Engineering II</td>
<td>4</td>
</tr>
</tbody>
</table>

Note: If not used to satisfy other requirement of the degree (Example: PHYS 115 or PHYS 145 are required for the Bachelor of Science. If both are taken, one will count as an elective).

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1 - Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Area C Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Notes:

- Students are required to complete 2 units for their Senior project (PHYS 191) either one or two semesters
- Students with an interest in theoretical physics are encouraged to consider a minor in Mathematics.
BS in Physics (Applied Physics)

Units required for Major: 75-77
Total units required for BS: 120

Program Description

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

The BS degrees are recommended for students seeking a career in the technology sector or planning to pursue a graduate degree.

Note: Students graduating with a Bachelor of Science Degree in Physics will not be subject to the University's Foreign Language Graduation Requirement.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1E</td>
<td>General Chemistry for Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 45</td>
<td>Engineering Materials</td>
<td>3</td>
</tr>
<tr>
<td>CSC 25</td>
<td>Introduction to C Programming</td>
<td>3</td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 32</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 45</td>
<td>Differential Equations for Science and Engineering</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one of the following (2 units minimum):

- PHYS 116 Advanced Electronics and Instrumentation
- PHYS 163 Scientific Computing: Modeling, Simulation, and Visualization
- PHYS 191 Senior Project

Elective Upper Division Requirements (9 Units)

Select 9 units of upper-division coursework in Physics or Engineering courses chosen in consultation with an advisor.

Physics Colloquium Attendance

Fulfill a minimum attendance requirement.

Total Units: 75-77

Notes:

- Students are required to complete 2 units for their Senior project (PHYS 191) either over one or two semesters.
- Students with an interest in theoretical physics are encouraged to consider a minor in Mathematics.
• Students graduating with a BS in Physics will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Elective List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 116</td>
<td>Advanced Electronics and Instrumentation 4</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 130</td>
<td>Acoustics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 136</td>
<td>Electrodynamics of Waves, Radiation, and Materials</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 142</td>
<td>Applied Solid State Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 145</td>
<td>Optics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 151</td>
<td>Advanced Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 156</td>
<td>Classical and Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 163</td>
<td>Scientific Computing: Modeling, Simulation, and Visualization 4</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 199</td>
<td>Special Problems</td>
<td>1 - 3</td>
</tr>
<tr>
<td>EEE 130</td>
<td>Electromechanical Conversion</td>
<td>3</td>
</tr>
<tr>
<td>EEE 135</td>
<td>Renewable Electrical Energy Sources and Grid Integration</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 112</td>
<td>Mechanics Of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 132</td>
<td>Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 181</td>
<td>Electronic Materials</td>
<td>3</td>
</tr>
<tr>
<td>ME 121</td>
<td>Solar Thermal and Energy Storage Systems</td>
<td>2</td>
</tr>
<tr>
<td>ME 122</td>
<td>Geothermal and Bioenergy Systems</td>
<td>2</td>
</tr>
<tr>
<td>ME 123</td>
<td>Wind, Hydro and Ocean Energy</td>
<td>3</td>
</tr>
<tr>
<td>ME 154</td>
<td>Alternative Energy Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 104</td>
<td>Vector Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105B</td>
<td>Advanced Mathematics for Science and Engineering II</td>
<td>4</td>
</tr>
</tbody>
</table>

4 If not used to satisfy other requirement of the degree (Example: PHYS 115 or PHYS 145 are required for the Bachelor of Science. If both are taken, one will count as an elective).

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Graduation Requirements (required by Sacramento State) (6 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Proficiency Requirement 2</td>
<td>0</td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Area C: Arts and Humanities (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
</tbody>
</table>

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Area D: The Individual and Society (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>D3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Area E: Understanding Personal Development (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

Required in Major; also satisfies GE.

Area F: Ethnic Studies (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td>F2</td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 42

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Note: Students with a declared major of BS in Physics or BS in Physics (Applied Physics) are exempt from the Foreign Language Graduation Requirement.
Certificate in Scientific Computing and Simulation

Units required for Certificate: 14 minimum

Program Description
A certificate program in Scientific Computing and Simulation designed for science and engineering majors is offered by the Department of Physics and Astronomy. It focuses on the basic skills of applying the computer to the solution of scientific problems which today encompass a broad range of applications in science and technology. Such skills include modeling and formulating the problem, solving the resulting equations, and displaying the results graphically. Students that earn this certificate will acquire a good grounding in such skills and be better prepared for today's industrial and academic careers.

Eligibility Information
To receive the certificate in Scientific Computing and Simulation, students must:

• achieve a 2.5 GPA in the certificate program courses;
• must be working towards a degree at Sacramento State or have special approval from the Chair of the Department of Physics and Astronomy.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Background Courses (8 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following pairs:</td>
<td></td>
</tr>
<tr>
<td>PHYS 11A &amp; PHYS 11B</td>
<td>General Physics: Mechanics ... Modern Physics</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>PHYS 11A &amp; PHYS 11C</td>
<td>General Physics: Mechanics ... Electricity and Magnetism</td>
</tr>
<tr>
<td>MATH 105A &amp; MATH 105B</td>
<td>Advanced Mathematics for Science and Engineering I ... II</td>
<td></td>
</tr>
<tr>
<td>PHYS 5A &amp; PHYS 5B</td>
<td>General Physics: Mechanics ... Modern Physics</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Computing Courses (6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>PHYS 162</td>
<td>Scientific Computing: Basic Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 163</td>
<td>Scientific Computing: Modeling, Simulation, and Visualization</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>14</td>
</tr>
</tbody>
</table>

Certificate in Scientific Instrument Development

Units required for Certificate: 11 minimum

Program Description
A certificate in Scientific Instrument Development is available through the Department of Physics and Astronomy. The Scientific Instrument Development certificate program focuses not only on using scientific instruments, but also will teach the fundamentals of electronics, computer interfacing, and machining. Students that earn this certificate will be prepared to design, prototype, and construct instruments for a wide range of scientific applications.

Eligibility Information
To receive the certificate in Scientific Instrument Development, students must:

• achieve a 2.5 GPA in the certificate program courses;
• must be working towards a degree at Sacramento State or have special approval from the Chair of the Department of Physics and Astronomy.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Courses (6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>PHYS 115</td>
<td>Electronics and Instrumentation</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 116</td>
<td>Advanced Electronics and Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>CHEM 133</td>
<td>Chemical Instrumentation</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 141</td>
<td>Physical Chemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 197</td>
<td>Advanced Laboratory Techniques for Geology</td>
<td></td>
</tr>
<tr>
<td>PHYS 175</td>
<td>Advanced Physics Laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>11-13</td>
</tr>
</tbody>
</table>

Minor in Physics

Units required for Minor: 21, all of which must be taken in Physics, and a minimum of 9 upper division units is required

Written approval from a Physics faculty advisor is required.

Program Description
Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Lower Division Courses (12 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Required Upper Division Courses (3 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>PHYS 106</td>
<td>Introduction to Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Additional Upper Division Requirements (6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>PHYS 105</td>
<td>Mathematical Methods in Physics</td>
<td>6</td>
</tr>
<tr>
<td>PHYS 110</td>
<td>Classical Mechanics</td>
<td></td>
</tr>
</tbody>
</table>
It is strongly recommended that students interested in applying to university and may omit a course that is required by another university. The requirements listed in this section are those identified by most universities offering the identified professional program. Therefore, requirements for specific health professional schools follow the list of elective requirements for the baccalaureate degree.

The pre-health professional advising patterns described in this section are not majors. For example, Sacramento State does not offer a "Pre-med major." Instead, the advising patterns identify the set of courses that must be completed before admission to particular types of health professional schools. In the case of some majors (e.g., Biological Sciences and Chemistry) there is considerable overlap in course requirements. However, the courses can be taken along with any major (e.g., English, Philosophy, Psychology, etc.) and used to satisfy General Education or elective requirements for the baccalaureate degree.

The common set of courses recommended for all of the medical-related professional schools covered in this section are listed below. Additional requirements for specific health professional schools follow the list of recommended core curriculum. It is important to note that requirements for a particular type of professional school (e.g., Dental School) may differ from one university to another, and that requirements are subject to change. The requirements listed in this section are those identified by most universities offering the identified professional program. Therefore, the lists may include courses that are not required by a particular university and may omit a course that is required by another university. It is strongly recommended that students interested in applying to professional schools contact one of the advisors listed in this section for assistance in planning their programs. It is also strongly recommended that students visit the Web sites of the universities they plan to apply to in order to be sure that they meet all requirements.

All health professional schools require strong academic ability and a good foundation in the sciences. In addition, good problem solving ability, effective oral and written communication skills, an awareness of interpersonal dynamics, an appreciation for cultural diversity, and an understanding of health care issues are important. Therefore, in addition to science courses, pre-health professional students should take general education courses that will enrich their non-science preparation in these areas.

It is also crucial that students have volunteer experience related to their professional goals. Such experience will provide more insight into how well suited you are to the work setting you are considering. Academic credit may be received for volunteer work by seeing an advisor and registering for BIO 195.

For more information about the Pre-Health Professional Program, please click here (http://www.csus.edu/prehealth/).

**Contact Information**

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Brett Holland, Biological Sciences
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Email: Brett Holland (holland@csus.edu)

Jennifer Lundmark, Biological Sciences
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Adam Rechs, Biological Sciences
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Email: Adam Rechs (rechs@csus.edu)

Rosalee Sprowls, Biological Sciences
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(916) 278-7391
Email: Rosalee Sprowls (sprowls@csus.edu)

Christina Strandgaard, Biological Sciences
Sequoia Hall 308
(916) 278-7152
Email: Christina Strandgaard (cstrand@csus.edu)

Mary McCarthy-Hintz, Chemistry

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| PHYS 115 | Electronics and Instrumentation |
| PHYS 124 | Thermodynamics and Statistical Mechanics |
| PHYS 130 | Acoustics |
| PHYS 135 | Electricity And Magnetism |
| PHYS 136 | Electrodynamics of Waves, Radiation, and Materials |
| PHYS 142 | Applied Solid State Physics |
| PHYS 145 | Optics |
| PHYS 150 | Quantum Mechanics |
| PHYS 151 | Advanced Modern Physics |
| PHYS 162 | Scientific Computing: Basic Methods |
| PHYS 175 | Advanced Physics Laboratory |

**Total Units** 21

**Note:** PHYS 5A, PHYS 5B may be substituted for PHYS 11A, PHYS 11C, but the 21-unit minimum must be met by additional courses in one of two ways:

- PHYS 106 plus three other upper division Physics courses OR
- PHYS 106 plus PHYS 11B plus two other upper division Physics courses.
require Sociology (SOC 1) as one of the courses from the social and behavioral sciences.

Recommended Field Specific Curricula

Allopathic Medical Schools

When most people use the term “Medical School,” they are usually referring to Allopathic Medical Schools that grant the M.D. (Doctor of Medicine) degree. There is, however, another type of Medical School, called Osteopathic Medical School (described below) that grants the D.O. (Doctor of Osteopathic Medicine) degree. Both M.D.’s and D.O.’s are eligible for licensure to practice medicine as physicians and surgeons in the State of California.

Applicants do not need a 4.0 GPA to get into an allopathic medical school. However, GPA is a reflection of your ability to handle university work and is an important part of your application. A successful applicant must be able to offer more than a good GPA. The attributes of motivation, social concern, communication skills, and maturity are given great weight in the selection process.

All students applying to allopathic medical schools must complete the recommended course requirements listed above. In addition to the common courses, most allopathic medical schools require one semester to one year of college mathematics. In general, the mathematics requirement can be satisfied by taking a full year of calculus. However, some medical schools specify that one of the courses must be statistics. Therefore, if you want to be sure that you have completed the math requirement for the greatest number of medical schools, you should take the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 30</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 26B</td>
<td>Calculus II for the Social and Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 31</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 9-11

It should be noted that there are variations in medical school admission requirements. For example, some schools also require or recommend one or more of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 127</td>
<td>Developmental Biology (embryology)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 184</td>
<td>General Genetics (genetics)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 121</td>
<td>Molecular Cell Biology (cellular or molecular biology)</td>
<td>3</td>
</tr>
<tr>
<td>or BIO 180</td>
<td>Advanced Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>CHEM 161</td>
<td>General Biochemistry (biochemistry)</td>
<td>3</td>
</tr>
</tbody>
</table>

And/or one year of a foreign language

For information on requirements for specific schools, contact your pre-health advisor or visit the Web site of the school you are interested in attending.

Applicants must take the Medical College Admissions Test (MCAT). The test should be taken after completing the recommended core curriculum. You should allow at least 10 months between taking the exam and the
date of planned matriculation. The schedule for the MCAT is currently under review. It is expected that beginning January 2007, the MCAT will become computer based and will be offered two to four times per year. For more information about dates, students should go to: www.aamc.org (http://www.aamc.org/). To ensure timely submission of all application materials (including letters of recommendation), students are strongly advised to take the exam no later than April of the year preceding planned matriculation. Your MCAT scores, especially your verbal reasoning score, are an important part of your application.

Most Allopathic Medical Schools subscribe to an application service called The Association of Medical Colleges Application Service (AMCAS). What this means is that you will have to complete a single (but very lengthy and complicated) initial application and submit a single set of transcripts and MCAT scores to AMCAS. In turn, AMCAS, for a fee, will distribute the materials to the medical schools you identify on the application. The AMCAS application is usually available in June of the year preceding the year you wish to matriculate. For example, the AMCAS application for admission in fall 2007 is available in June 2006. Participating medical schools set their own deadlines for receipt of application materials from AMCAS. The earliest deadline is usually November 1 of the year preceding planned admission. It is strongly recommended that you complete your AMCAS application soon after it becomes available, even if you plan to take the August MCAT.

The medical schools will review your AMCAS application and MCAT scores. After this review, the school will either reject your application or invite you to submit a school specific secondary application and letters of recommendation. Following a review of these materials, the school will either reject your application or invite you for an interview.

Osteopathic Medical School

Doctors of Osteopathic Medicine (D.O.’s) are “complete physicians.” This means that they are fully trained and licensed to diagnose illness, prescribe medication, and perform surgery. D.O.’s and allopathic physicians (M.D.’s) are the only two types of complete physicians in the United States. In California, as in most other states, the law accords holders of the D.O. and M.D. equal professional status and privileges as licensed physicians and surgeons. D.O.’s may practice all branches of medicine, including specialties like Pediatrics, Obstetrics and Gynecology, and Emergency Medicine.

To become a D.O., you must attend a School/College of Osteopathic Medicine. At the time of this catalog, 19 schools/colleges offered programs leading to the D.O. degree. The main difference between the training of osteopathic and allopathic physicians is that osteopathic medical students must take additional training in osteopathic manipulative medicine. To learn more about osteopathic medicine, students should visit the Web site of The American Association of Colleges of Osteopathic Medicine (AACOM).

To be admitted to a School/College of Osteopathic Medicine, a student must complete the recommended core curriculum listed above. As is the case for most health professional schools, students may be admitted without a baccalaureate degree. However, 97% of students enrolled in Osteopathic Medical Schools hold at least a baccalaureate degree. Most osteopathic medical schools do not specify a college mathematics requirement. However, it is recommended that students complete the same math courses that are required for admission to an allopathic medical school. In addition, like allopathic medical schools, some osteopathic medical schools also recommend or require upper division courses in biology and biochemistry.

Students seeking admission to osteopathic medical school must also take the Medical College Admissions Test (MCAT). Most osteopathic medical schools subscribe to an application service called The American Association of Colleges of Osteopathic Medicine Application Service (AACOMAS). Therefore, applicants file one application, a single set of transcripts, and one set of MCAT scores to AACOMAS, and the service distributes these materials to each of the colleges designated on the application.

Like allopathic medical schools, osteopathic medical schools require letters of recommendation at some stage in the process. However, it is important to note that one of the letters must be from a practicing doctor of osteopathic medicine. Therefore, students thinking about applying to osteopathic medical school should try to make contact with a D.O. early in their undergraduate studies.

Dental Schools

To become a dentist, students must complete a program leading to the D.D.S. (Doctor of Dental Surgery) or D.M.D. (Doctor of Dental Medicine) degree. Most dental school programs are four-year programs. However, a few dental schools (e.g., University of the Pacific) offer a three-year program. To be admitted to dental school, students must complete the recommended core curriculum listed above. In addition, many dental schools recommend or require that students complete one or more of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 22</td>
<td>Introductory Human Anatomy (anatomy)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology (physiology)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 184</td>
<td>General Genetics (genetics)</td>
<td>4</td>
</tr>
<tr>
<td>BIO 127</td>
<td>Developmental Biology (embryology)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 161</td>
<td>General Biochemistry (biochemistry)</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics (statistics)</td>
<td>3</td>
</tr>
</tbody>
</table>

Dental school applicants must take the Dental Aptitude Test (DAT) which is given year-round by appointment on computers. The test should be taken at least 10 months prior to matriculation.

Most dental schools subscribe to an application service called the Associated American Dental Schools Application Service (AADSAS). Therefore, students applying to participating schools must complete a single initial application and submit a single set of transcripts and DAT scores to AADSAS. However, after reviewing a students AADSAS application and DAT scores, most participating dental schools will require that students submit secondary applications and letters of recommendation.

Pharmacy Schools

To become a pharmacist, students must complete a program leading to the Doctor of Pharmacy (Pharm.D.) degree. Some, but not all, schools require the Pharmacy College Admission Test (PCAT). Prerequisite coursework also varies by school. Therefore, you should check with your pre-health advisor and the school’s Web site for information about standardized test and course requirements. Completion of the recommended core curriculum plus the following courses will satisfy course requirements for most pharmacy schools:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 22</td>
<td>Introductory Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 139</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
</tbody>
</table>
course requirements for most optometry schools: recommended core curriculum plus the following courses will satisfy course requirements vary by school. However, completion of the matriculation (e.g., in Fall 2009 for admission in Fall 2010). Prerequisite taken no later than the fall of the year preceding the intended date of twice a year, once in October and once in February. The test should be take the Optometry Admissions Test (OAT). The OAT is administered leading to the Doctor of Optometry (O.D.) degree. Applicants must To become an optometrist, students must complete a program of study Veterinary Schools
To become a veterinarian, students must complete a program of study leading to the Doctor of Veterinary Medicine (D.V.M.) degree. Although it is becoming less difficult to gain admission to any U.S. veterinary school without being a resident of the state in which the school is located, residents of California most often attend the School of Veterinary Medicine at UC Davis. Applicants to the UC Davis Veterinary School must take the Graduate Record Examination (GRE) General Aptitude Test. The GRE must be taken no later than October 1 of the year preceding planned matriculation. Applicants to other veterinary schools are usually required to take the Veterinary College Admission Test (VCAT). Applicants to veterinary school must have formal animal/veterinary experience.

In addition to the recommended core curriculum listed above, students planning to attend the School of Veterinary Medicine at UC Davis should take the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 127</td>
<td>Developmental Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 184</td>
<td>General Genetics</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 161</td>
<td>General Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Units 18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td>3-4</td>
</tr>
<tr>
<td>Numbers: for MATH 30 Calculus I</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 24-26

Some schools require only one semester of calculus (MATH 26A or MATH 30).

Science Subject Matter

College of Natural Sciences and Mathematics

Program Description
Science Subject Matter Program (Biology) (p. 835)
Science Subject Matter Program (Chemistry) (p. 855)
Science Subject Matter Program (Physics) (p. 906); known as the BA in Physics (Teacher Preparation)

Career Possibilities
Middle School Science Teacher · High School Teacher of General Science and Biology, Chemistry, Geoscience, or Physics depending on choice of major

Contact Information
Center for Mathematics and Science Education
Sequoia Hall 330
(916) 278-5487
Center for MASE Website (http://www.csus.edu/mase/)

Subject Matter Program (Foundational Level General Science)
The Science Subject Matter Program in foundational level general science is designed to meet the California Commission on Teacher Credentialing (CTC) subject matter requirement for students to enter a California Single Subject teaching credential program. Meeting the subject matter requirement is a credential program admission requirement, and can be met either through a subject matter program (such as those described below) or by taking a state approved content exam (currently the California Subject Exam for Teachers, the CSET). In order to meet the subject matter obtain a California K-12 Teaching Credential, a program requirement, all courses must be completed with a grade of "C-" or better. In order to teach public school in California, you must also complete a teaching credential program.

Subject matter programs are not degrees or concentrations; instead they are a series of courses that allow a student to meet the requirements for admission to a teaching credential program. Students must also complete a BA or BS degree (with any major) to fulfill the credential requirements.

The foundational science subject matter program is typically an entry-level credential. It is important for students obtaining the foundational science credential to see a faculty advisor or the department chair in the department of their academic major or the success center in the College of Education for feedback on the potential career paths for this credential. It is recommended that they do so early as it is critical that
their science coursework be carefully planned and coordinated to include the required subject matter program courses. In addition, students are encouraged to become involved with education related activities like grading, assisting in labs, tutoring K-12 students, and visiting schools; please speak with the subject matter advisors in your area for more information.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 4A</td>
<td>Introduction to the Solar System</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 4B</td>
<td>Introduction to Stars, Galaxies, and Cosmology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>4 -</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>10</td>
</tr>
<tr>
<td>or BIO 10</td>
<td>Basic Biological Concepts</td>
<td></td>
</tr>
<tr>
<td>&amp; BIO 15L</td>
<td>Laboratory Investigations in Biology</td>
<td></td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>ENVS 10</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 10</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following series</td>
<td>8 -</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 5B</td>
<td>General Physics: Light, Electricity and Magnetism, Modern</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern</td>
<td></td>
</tr>
<tr>
<td>&amp; PHYS 11C</td>
<td>Physical Physics: Electricity and Magnetism (and)</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 34-44

1 Course also satisfies General Education (GE)/Graduation Requirement.

Subject Matter Program (Physics)

The Science Subject Matter Program in physics is designed to meet the California Commission on Teacher Credentialing (CTC) subject matter requirement for students to enter a California Single Subject teaching credential program. Meeting the subject matter requirement is a credential program admission requirement, and can be met either through a subject matter program (such as those described below) or by taking a state approved content exam (currently the California Subject Exam for Teachers, the CSET). In order to meet the subject matter requirement, all courses must be completed with a grade of “C-” or better. In order to teach public school in California, you must also complete a teaching credential program.

Subject matter programs are not degrees or concentrations; instead they are a series of courses that allow a student to meet the requirements for admission to a teaching credential program. Students must also complete a BA or BS degree (with any major) to fulfill the credential requirements.

Science majors who intend to pursue a teaching credential should see a faculty advisor or the department chair in the department of their academic major. It is recommended that they do so early as it is critical that their science coursework be carefully planned and coordinated to include the required subject matter program courses. In addition, students are encouraged to become involved with education related activities like grading, assisting in labs, tutoring K-12 students, and visiting schools; please speak with the subject matter advisors in your area for more information.

Program Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 4A</td>
<td>Introduction to the Solar System</td>
<td>3</td>
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<tr>
<td>ASTR 4B</td>
<td>Introduction to Stars, Galaxies, and Cosmology</td>
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<tr>
<td>BIO 1</td>
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</tr>
<tr>
<td>&amp; BIO 2</td>
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<td>or BIO 10</td>
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<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
<td></td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Heat, Light, Sound, Modern</td>
<td></td>
</tr>
<tr>
<td>PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern</td>
<td></td>
</tr>
<tr>
<td>PHYS 11C</td>
<td>General Physics: Electricity and Magnetism</td>
<td></td>
</tr>
<tr>
<td>PHYS 106</td>
<td>Introduction to Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 115</td>
<td>Electronics and Instrumentation</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 45-51

1 Course also satisfies General Education (GE)/Graduation Requirement.

College of Social Sciences and Interdisciplinary Studies

College Overview

The College of Social Sciences and Interdisciplinary Studies (SSIS) provides dynamic curricula and activities that examine all aspects of human society through the study of social justice, policy, mental and physical health, culture, social behavior, and the natural environment within innovative departments, programs, and centers/institutes. Key to our students’ success is their awareness of culture and community, scientific thinking and analysis, anti-racist practices, and ethical decision-making.

The College offers bachelor’s and master’s degrees, as well as concentrations, minors, certificates. The University also offers a Doctorate in Educational Leadership, which reflects a partnership between our department of Public Policy and Administration and the College of Education. The knowledge and skills developed by the College’s programs are applicable to a wide variety of careers. Students should consult with individual departments for further career and graduate and professional school opportunities.

For more information about the College of Social Sciences and Interdisciplinary Studies, please click here (http://www.csus.edu/ssis/).
Program Descriptions

Anthropology
Located at the nexus of Natural Sciences, Social Sciences, and Humanities, Anthropology integrates diverse forms of knowledge into practical indexes for engagement with our everyday concerns. The program provides students "hands-on" experience to complement their in-class learning. Undergraduate and graduate students can participate in various projects including archaeological excavations, community engagement programs, and intern at various governmental and non-governmental agencies.

Asian Studies
The Asian Studies Program at California State University, Sacramento is an interdisciplinary program that seeks to prepare our students for a future in an economically and politically important and inter-connected Pacific Basin by providing an in-depth understanding of Asia from a political, cultural, and historical perspective.

Economics
The Economics major is designed to provide students with a broad education with special emphasis on the economic aspects of society and familiarization with techniques for the analysis of contemporary economic problems. A graduate degree is also offered.

Environmental Studies
The Bachelor of Arts or Bachelor of Science in Environmental Studies provides students with an interdisciplinary understanding of challenging issues like pollution, wildlife and wilderness preservation and restoration, land use, biodiversity loss, resource depletion, energy and natural resource conservation. They learn how policy and practice assess and address those challenges towards resilient natural systems and a sustainable society.

Ethnic Studies
Ethnic Studies offers an undergraduate degree through an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicano-Latinx, and Native Americans. The program directs students to critically examine the contributions made by these groups to Americans, Chicanx-Latinx, and Native Americans. The program directs students to critically examine the contributions made by these groups to American society.

Family and Consumer Sciences
The Family and Consumer Sciences Department offers a Bachelor of Science degrees in Family Studies and Human Development; Fashion Merchandising and Management; Nutrition and Food, with the option of a Didactic Program in Dietetics; and Family and Consumer Sciences Education (Pre-credential Single Subject Program). Our majors study relationships between people and their diverse environments, focusing on the integration of physical, biological, cultural, economic and social influences on human behavior, lifespan development, and health.

Gerontology
Gerontology is an applied interdisciplinary program offering courses from a variety of departments and colleges. The Program prepares students to address challenges and positive life transitions related to individual and family health and illness in an aging society. Students apply concepts and theories in several service learning courses and two academically structured internships which aids in providing a solid knowledge and experiential base for careers in a wide variety of settings serving elders.

Liberal Studies
Students enjoy a wide-ranging selection of courses in different disciplines as they prepare for careers in K-12 education or in business and government.

Political Science
The Department of Political Science offers three majors including Political Science, International Relations, and Political-Science Journalism. We also offer a minor and a Masters in Political Science. Ideally located in the state capital, the Department offers students unique opportunities to integrate their studies of politics and theory through an extensive range of internships in state and local government.

Psychology
The undergraduate program in Psychology allows students to develop a scientific understanding of the behavioral, biological, cognitive, cultural, developmental, and social aspects of human behavior. Graduate programs offer an opportunity to pursue coursework and research experience in Applied Behavior Analysis, General Psychology, or Industrial-Organizational Psychology.

Public Policy Administration
The Department of Public Policy and Administration focuses on professional training for graduate students interested in working in or adjacent to the public sector. It offers a Master of Public Policy and Administration, a Certificate in Collaborative Governance for matriculated graduate students, and a Certificate in Judicial Administration through the College of Continuing Education. It also participates actively in the Doctorate in Educational Leadership Program.

Social Science
The Social Science Program provides a major and concurrent subject matter preparation for the Single Subject Teaching Credential in Social Science.

Sociology
The study of Sociology gives students the ability to observe human behavior, analyze data, and collaborate with others to achieve desired social change. The mission of the Sociology Department is to provide our students with the theoretical and substantive knowledge to participate as skilled professionals within the institutions and organizations that shape our region. Students have the opportunity to deepen their experience through internships at non-profits, and state and local government.

Women's and Gender Studies
Women's and Gender Studies is a dynamic interdisciplinary field preparing students to be future leaders, scholars, and social justice activists. We are dedicated to studying the social production of gender, and women's experiences in relation to formations of sexuality, race, class, nationality, ability, ageism, and other categories of difference. Students are prepared for careers in teaching, counseling, psychological or family therapy; law; health, social work, human services, and public service.

Departments/Programs

- Anthropology: BA; MA; Minor
- Asian Studies: BA; Minor
• Economics: BA; Certificate; MA; Minor
• Environmental Studies: BA; BS; Minor
• Ethnic Studies: BA; Certificate; Minors
• Family and Consumer Sciences: BS programs; Certificate; Minor; Subject Matter
• Gerontology: BS; Certificate; Minor
• Liberal Studies: BA
• Military Studies: Minor
• Peace Corps Prep: Certificate
• Political Science: BA programs; Certificate; MA; Minors
• Psychology: BA; Certificate; MA; Minor
• Public Policy and Administration: MPPA, Certificate
• Social Science: BA
• Sociology: BA; MA; Minor
• Women's and Gender Studies: BS; Minor

Centers/Institutes
The College of Social Sciences and Interdisciplinary Studies has a long history of involvement in social policy-oriented scholarship and instruction. That history, and the College’s current roster of talented researchers and instructors, has placed SSIS at the forefront of the University’s efforts to meet diverse community needs, consistent with the stated values of the University’s strategic plan. These efforts are channeled through the following centers, institutes, and other entities:

• Archaeological Curation Facility
• Center for Pacific Asian Studies
• Cooper-Woodson College Enhancement Program
• Educational Insights Center (EdInsights)
• Full Circle Project
• Institute for Social Research (ISR)
• Iranian and Middle Eastern Studies Center
• Hazel Cramer Endowed Chair
• Rekhi Singh Endowed Professor in Happiness

Contact Information
College of Social Sciences & Interdisciplinary Studies (http://www.csus.edu/ssis/)
Amador Hall 255
(916) 278-6504

Administrators:
Dianne Hyson, Dean
Marya Endriga, Associate Dean for Student and Personnel Success
Boatamo "Ati" Mosupyoe, Associate Dean for Resource and Program Management

Analysts:
Aaron Eichenberger, College Resource Analyst
Marsha Robinson, College Liaison for Recruitments/Administrative Analyst/Specialist

Administrative Support Coordinators:
Heather Mummaw, Marketing and Operations Coordinator
Anne Montgomery, Travel and Scholarship Coordinator
Rodrigo da Silva, Administrative Support Coordinator

Instructional Technology Consultants:

African Studies

Program Description
The Minor and Certificate in African Studies are identical programs. The Minor is recommended for students undertaking completion of a Bachelor’s degree. The Certificate is recommended for students who have already completed a Bachelor’s degree.

The program is intended to improve students’ understanding of modern Africa. As a significant part of the world community, Africa merits focused and sustained study. This program provides a cohesive, directed effort to develop students’ knowledge and appreciation for Africa’s peoples, geography, institutions, arts, customs, languages, traditions, resources, politics, and social structures. The program is designed and structured in a way that will be useful to the student, both professionally and academically. The Minor is of particular relevance for students interested in acquiring an integrated perception and understanding of Africa. The program provides different options: a specific emphasis in international relations; interests in a particular aspect of African life such as art, history, or society; or general intellectual curiosity.

The CSU International Programs provide opportunities for students at Sacramento State to study and live in Africa. This constitutes a valuable adjunct to African Studies on the campus. Students are strongly urged to take at least one year of a language used in Africa other than English. Course selection for each student is worked out with an advisor from the African Studies faculty in conjunction with the Director of Pan African Studies.

Degree Programs
Certificate in African Studies (p. 920)
Minor in African Studies (p. 920)

Contact Information
Boatamo Mosupyoe, Director African Studies
Chair/Professor Ethnic Studies
Amador Hall 462D
(916) 278-3536
(916) 278-7570

Faculty
AL-QAZZAZ, AYAD
CAMERON-WEDDING, RITA
DUBE, SMILE
GATSON, JESSIE
GREEN, RICKY
KIBURI, FUNDI
Certificate in African Studies

Units required for Certificate: 21

Program Description

The program is intended to improve students’ understanding of modern Africa. As a significant part of the world community, Africa merits focused and sustained study. This program provides a cohesive, directed effort to develop students’ knowledge and appreciation for Africa’s peoples, geography, institutions, arts, customs, languages, traditions, resources, politics, and social structures. The program is designed and structured in a way that will be useful to the student, both professionally and academically.

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Program Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHN 10</td>
<td>Africa: Myths and Realities</td>
<td>3</td>
</tr>
<tr>
<td>GOVT 142</td>
<td>History of African Civilizations</td>
<td>3</td>
</tr>
<tr>
<td>HIST 7</td>
<td>History of Africa Since 1800</td>
<td>3</td>
</tr>
<tr>
<td>HIST 141</td>
<td>History of Women in Africa</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 1A</td>
<td>Elementary Swahili</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 1B</td>
<td>Elementary Swahili</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 70</td>
<td>Introduction to Pan African Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 171</td>
<td>African Religions and Philosophies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 177</td>
<td>Topics In African Studies</td>
<td>3</td>
</tr>
<tr>
<td>SOC 162</td>
<td>Middle Eastern Societies and Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 21

Minor in African Studies

Units required for Minor: 21

Program Description

The program is intended to improve students’ understanding of modern Africa. As a significant part of the world community, Africa merits focused and sustained study. This program provides a cohesive, directed effort to develop students’ knowledge and appreciation for Africa’s peoples, geography, institutions, arts, customs, languages, traditions, resources, politics, and social structures. The program is designed and structured in a way that will be useful to the student, both professionally and academically.

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</thead>
<tbody>
<tr>
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<td>ETHN 1A</td>
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<td>ETHN 1B</td>
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Total Units: 21

Anthropology

College of Social Sciences and Interdisciplinary Studies

Program Description

Anthropology is the study of humans, past and present. Anthropologists take a broad approach to understanding the varieties of human experience, which uniquely places us at the juxtaposition of the social sciences, natural sciences and the humanities. Anthropology is traditionally organized into four subfields that offer distinctive skills.

Cultural and Social Anthropology deals with the social lives of people around the world, including our own society: economic systems, legal practices, kinship, religions, medical practices, folklore, arts and political systems, as well as the interrelationship of these systems in environmental adaptation and social change. Anthropological Linguistics deals with varied aspects of human language and the characteristics of nonhuman communication systems, to achieve an understanding of past and present human language systems and their significance in social life.

Biological Anthropology is a biological science that deals with adaptations, variability and evolution of humans, and our living and fossil relatives. It is also a social science because biological anthropologists study human biology within the context of culture and behavior. Simply put, they study humans from a biocultural perspective across space and time. Physical Anthropology describes and compares world human
Special Features

MA in Anthropology

Minor in Anthropology

BA in Anthropology (Culture, Language and Society)

BA in Anthropology (Archaeology and Biological Anthropology)

BA in Anthropology (General Anthropology)

concentrations that share a common foundation.

Anthropology focuses on the material remains of human societies from the remote and recent past with emphasis on reconstructing and understanding past modes of human cultural adaptation and change.

While maintaining exposure to these four subfields, the Anthropology program allows students to sharpen their skills in specific domains of anthropological thought and practice. Students may choose from three concentrations that share a common foundation.

- **Archaeology and Biological Anthropology (ABA):** emphasizes a scientific approach to anthropology. Studying diverse topics including; evolutionary processes, human variation, ecology, skeletal analysis and zoo-archaeology, it prepares students for careers in the anthropological sciences in both the public and private sectors, such as cultural resources management, forensic science; collections management, and advanced graduate studies in anthropological sciences or related disciplines.

- **Culture, Language and Society (CLS):** introduces students to knowledge and skills necessary for a nuanced understanding and engagement with the world we live in. It prepares students for graduate studies in socio-cultural and linguistic anthropology, professional careers in government, business, law, healthcare and any contexts that require attention to cultural, social and linguistic dynamics.

- **General Anthropology (GA):** constitutes a solid liberal arts foundation that prepares students for careers and graduate studies in fields that call for a broad exposure to anthropological knowledge. Students, under the guidance of a faculty advisor, can also choose to customize a program of study to pursue individualized academic or professional interests.

**Degree Programs**

BA in Anthropology (General Anthropology) (p. 937)

BA in Anthropology (Archaeology and Biological Anthropology) (p. 933)

BA in Anthropology (Culture, Language and Society) (p. 935)

Minor in Anthropology (p. 940)

MA in Anthropology (p. 939)

**Career Possibilities**

Anthropology equips students with the necessary knowledge to engage with the political, economic, cultural, and social complexities of the world. In addition to providing students analytical and critical thinking skills, anthropology exposes students to the intersection of culture, biology, and history on peoples’ lived experiences. Majoring in Anthropology provides students a solid foundation for advanced studies in diverse fields such as anthropology, business, cultural resources management, law, journalism, medicine, communication, social work, urban studies, public policy, informatics, and any other profession that calls for the sustained engagement with cultural diversity, critical thinking, analytical abilities and people skills. Given the training they receive, anthropologists are increasing sought by the business world, government agencies and non-government organizations. Traditionally Anthropology majors have pursued careers in primary and secondary teaching; consumer market research; human resource development; local, state, and federal governmental agencies; non-governmental organizations (NGOs); archaeological field or laboratory technicians; forensic analysis, community development organizations; trade union organizations and allied fields. The globalized world economy has expanded this horizon to include career opportunities in communication, health care, entertainment, information technology, consumer product development, etc.

**Contact Information**

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(916) 278-6452
www.csus.edu/anth (http://www.csus.edu/anth/)

**Faculty**

BARATA, DATA
BERREY, ADAM C.
CASTANEDA, TERRI
DELCORTE, MICHAEL G.
FISHER, JACOB
FLAMENBAUM, RACHEL
HENS, SAMANTHA
MURPHY, LIAM
RASCHIG, MEGAN
SCARRY, CLARA
SINGH, NANDINI
STEVENS, NATHAN E.
SULLIVAN, ROGER
TRICHUR, RAGHURAMAN
WALKER, MICHAEL M.
ZEANAH, DAVID W.

ANTH 1. Introduction to Biological Anthropology. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring, Summer

Introduces students to the methods and theories used by anthropologists to study human evolution and the application to the human species. The course also becomes familiar with the stages of human and primate evolution.


ANTH 4. Language, Culture, and Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Introduces the abstract and formal structures of language and cultural dimensions of human communication via major linguistic anthropological concepts, theoretical assumptions, and methodologies. Addresses the logical, formal relationship between underlying rules of natural languages while critically analyzing how speakers from different cultures use language to convey complex social and cultural information. Course illuminates how language is used to create and reinforce relationships of power (race, class, gender); develops ability to recognize linguistic fallacies; and instructs in basic critical thinking skills.

ANTH 16. Comparative Early Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines the emergence and development of early civilizations. Studies state formation, urbanization, market system development, and other processes relevant to the evolution of early civilizations from the standpoints of cross-cultural comparison and modern anthropological theory. The goal is to identify cross-cultural regularities as well as critical differences that can explain the various evolutionary trajectories of these societies. The civilizations that will be contrasted include societies from Mesopotamia, Egypt, the Indus Valley, China, Mesoamerica, Andean South America, and other regions.

ANTH 3. Introduction to Archaeology. 3 Units
General Education Area/Graduation Requirement: GE Area D
Term Typically Offered: Fall, Spring

Introduces students to the methods and theories used by archaeologists to find, recover, and interpret such remains in an effort to reconstruct and understand the lives of earlier peoples. The class uses archaeological case studies, films, and hands-on examples of tools and other artifacts produced by simple stone age hunters and more complex civilizations that lived in California and other parts of the world.

ANTH 101. Cultural Diversity. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity
Graduation Requirement (RE), United States History, GE Area D
Term Typically Offered: Fall, Spring, Summer

Focuses on analyzing the historically conditioned political, economic and social factors that have contributed to cultural diversity in the U.S.; a critical anthropological approach is developed to explore the intersection of race, class, gender, ethnicity and sexuality; the political economy of institutions and ideas, such as racism, classism, sexual stereotyping, family, religion, state, color-blindness, multiculturalism, etc.; and, discourses of cultural diversity in the U.S.
An upper division general introduction to cultural anthropology. Divided into two major parts: a survey of theories, methods and concepts of cultural anthropology, and an introduction to applied cultural anthropology.

**ANTH 103. Psychological Anthropology.** 3 Units

Prerequisite(s): ANTH 2 or ANTH 102.

Term Typically Offered: Fall, Spring

Cross-cultural comparative approach to human cognition, child-training practices, personality development, deviant behavior, cultural psychiatry, and data gathering techniques.

**ANTH 104. The History of Anthropology.** 3 Units

Prerequisite(s): ANTH 146 or instructor permission.

Term Typically Offered: Fall, Spring

Anthropological theory in historical perspective.

**ANTH 105. Anthropology of War.** 3 Units

Prerequisite(s): ANTH 146 or instructor permission.

Term Typically Offered: Fall, Spring

Examination of the nature of war, primarily as it occurs in pre-industrial societies, and a survey of the kinds of explanations of this phenomenon current in anthropology. Emphasis is on understanding the complexity, variability, and cultural imbeddedness of war as it occurs around the world.

**ANTH 106. Culture and Personality of the Chicano Child.** 3 Units

Term Typically Offered: Fall, Spring

Study of child growth and development patterns universal to all children with focus on the pressures and effects of the Mexican and Anglo cultures on the development of the Chicano child.

**ANTH 107. Anthropology of Hunters and Gatherers.** 3 Units

Prerequisite(s): ANTH 3

Term Typically Offered: Fall, Spring

Survey of the rapidly disappearing life way which anthropologists call hunting and gathering, with economies based on the use of wild plant and animal resources. Using ethnographic examples from the Arctic, southern Africa, rainforests in South America, deserts of Australia, and western North America, explores variation in hunter-gatherer societies with respect to differences in environment, technology, social organization, and the historical effects of interaction with more complex cultural groups. Models that attempt to explain long-term changes in this life way are also explored.

**ANTH 108. Economic Anthropology.** 3 Units

Prerequisite(s): ANTH 146 or instructor permission.

Term Typically Offered: Fall, Spring

Examines the fundamentals of economic anthropology through a focus on production, exchange, and consumption in a range of historical and ethnographic contexts. Introduces different frameworks for theorizing the economy and explaining human behavior and decision-making. Addresses central questions and issues in cultural anthropology on the origins of value, wealth and social stratification, the meanings of work, gift exchange and reciprocity, property regimes, morality and debt, marketing and desire.

**ANTH 109. Ecological and Evolutionary Approaches to Anthropology.** 3 Units

Prerequisite(s): ANTH 3

Term Typically Offered: Fall, Spring

Survey of anthropological research regarding the relationships between human behavior, ecology, and evolution. Reviews historic development of research in this field, and contrasts approaches based in ecological and evolutionary theory. Reviews and evaluates of case studies. Topics include hunter-gatherer and hominid economy and social organization, foraging theory, work effort, population growth and regulation, origins of agriculture, warfare, ritual and resource conservation, and origins of complex society.

**ANTH 110. Archaeological Method and Theory.** 3 Units

Prerequisite(s): ANTH 3.

Term Typically Offered: Fall, Spring

Traces the development of archaeology from its inception in the eighteenth century up to the present time. Readings, lectures, and class assignments follow the evolution of archaeological method and theory in relation to changing ideas about the role of culture, environment, and technology within the broader discipline of anthropology.

**ANTH 111. California Archaeology.** 3 Units

Prerequisite(s): ANTH 3

Term Typically Offered: Fall, Spring

Pre-contact California encompassed some of the most extensive environmental and cultural diversity ever to exist on the planet, containing widely divergent biota, many distinct languages and cultures, and among the densest hunter-gatherer populations ever recorded. At least 11,000-12,000 years of human occupation have been marked by multiple migrations and major shifts in technological and social organization. Explores long-term trends in cultural development across the state, and examines models used to explain why semi-permanent settlements, intensive subsistence strategies, and complex social institutions arose in some times/places and not others.
ANTH 112. Great Basin Archaeology. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring
Explores the cultural and natural history of the Great Basin from the last glacial maximum into the historic era. Though largely arid, this region in fact manifest considerable environmental variability and has seen significant climatic alterations since the Pleistocene. Human occupation of the Great Basin witnessed major changes in demography, technology, subsistence practices, and sociopolitical organization over the last 10-12,000 years. The course looks to understand cultural and environmental variability across the region through examination of the long-term material record and consideration of anthropological and biological models.

ANTH 113. Prehistory of the Southwest. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring
Survey of the prehistory of the Arizona, New Mexico, Western Colorado, Utah, and adjacent regions of Nevada, Texas and northwestern Mexico. Major prehistoric cultures of the Southwest (Hohokam, Anasazi, Mogollon, Fremont) are covered in detail. Focus on major transitions in subsistence and social organization emphasizing current issues of archaeological research. Cultural influences from outside areas are also considered.

ANTH 114. North American Prehistory. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring
Familiarizes students with the archaeological record of North America, and provides an analytical framework through which it may be understood in anthropologically meaningful terms. This will be accomplished by considering some of the explanations that have been proposed to account for the prehistory of the continent, and by examining the archaeological remains and cultural sequences found in various areas, including the North and Southeast, Great Plains, Pacific Northwest, and arctic/subarctic regions.

ANTH 115. Origins of Agriculture. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring
Surveys and evaluates worldwide anthropological perspectives of the origins of agriculture and the rise of complex society. Traces the development of major archaeological theories for the inception and spread of agriculture and civilization, acquainting students with groundbreaking archaeological research associated with each theoretical perspective. Current archaeological research is reviewed in-depth, providing a context for critique of the theories. Examples from North America, Latin America, the Middle East, India and China are compared and contrasted using movies, readings, and lectures.

ANTH 116. Old World Prehistory: Paleolithic Archaeology. 3 Units
Term Typically Offered: Fall, Spring
Old World Paleolithic archaeology from the emergence of hominids until the development of agriculture and civilization. Cultural developments in Africa, Asia, Europe and Australia are examined with the aim of highlighting similarities and differences in the process of technological, demographic, and sociopolitical change within each region. Explanatory models are offered to account for cultural evolution in various parts of the Old World are explored and assessed.

ANTH 117. World Prehistory and the Evolution of Modern Humanity. 3 Units
Prerequisite(s): Any lower-division Area B2 GE course
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
Covers human prehistory, from the emergence of culture through the domestication of plants and animals, and the origins of complex societies. Included are major cultural developments on every continent, emphasizing similarities and differences in the nature and timing of key technological, cultural, and sociological changes. Methodologies for learning about the past, major archaeological discoveries, important personalities, and contributions to the modern world are discussed in the context of understanding the strengths of a scientific approach to understanding the human past.

ANTH 118. The Anthropocene: Human Impacts on Ancient Environments. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
Designed to challenge students to critically evaluate past human relationships with their environment at the local, regional, and global scale over the past 10,000 years. The diachronic perspective of the course provides students with a broader understanding of contemporary challenges, such as anthropogenic climate change and declining biodiversity, that is rooted in our prehistoric past.

ANTH 119. Analysis of Faunal Remains. 4 Units
Prerequisite(s): ANTH 3 and Anthropology (Archaeological and Biological Anthropology) concentration.
Seminar on techniques and methods employed in analysis of faunal remains from archaeological sites, coupled with a laboratory providing hands-on identification of mammalian remains from these settings. Large focus on quantitative methods used in zooarchaeology to infer behavioral patterns of the human past and their paleoenvironments.

ANTH 120. Introductory Statistics for Anthropologists. 3 Units
Prerequisite(s): Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall, Spring
Covers the conceptual framework involved in quantitative methods of data analysis commonly employed in anthropology. The emphasis is primarily on understanding concepts and secondarily on learning techniques of data analysis. Topics include data description and distributions, estimation procedures, hypothesis testing, and model fitting. Illustration of concepts in lecture are made with data from archaeology, physical anthropology, and social/cultural anthropology.

ANTH 121. Archaeology of Mexico. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Provides an upper division introduction to the archeology of Mesoamerica for students not majoring in anthropology. Discusses the evolution of the ancient civilizations of Mesoamerica, including Mexico, Guatemala, Belize, Honduras, and El Salvador. Examines the development of societies from the earliest inhabitants to the growth of empires. Includes coverage of the Olmecs, Monte Alban, Teotihuacan, the Classic Maya, the Toltecs, and the Aztecs.
Note: Cannot be used to meet the requirements of the Anthropology major; interested majors should take ANTH 122.
ANTH 122. The Evolution of Early Mesoamerican States. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Traces the emergence of pre-hispanic state societies in Mesoamerica from the growth of the earliest settlements to the collapse of the Aztec empire. Analyzes how complex societies evolved in Mesoamerica, focusing on such evidence as household and village social organization, craft specialization and interregional exchange, religion and ideology, and the logistics of state management and imperial expansion.

ANTH 123. Ancient Technology. 3 Units
Term Typically Offered: Fall, Spring

Examines the importance of various preindustrial technologies, and the techniques and methods involved in their manufacture and use. Topics include stone, bone, wood, and hide working, ceramics, weaving, metallurgy, and other crafts essential to human survival in ancient and contemporary societies around the world.

ANTH 124. Environmental Archaeology. 3 Units
Prerequisite(s): ANTH 3 and Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall, Spring

All human societies depend on their natural surroundings, and so the reconstruction of prehistoric environments is an essential part of archaeological interpretation. Three interrelated aspects of environmental archaeology are considered: (1) general approaches to paleoenvironmental reconstruction, employing various biological and geological indicators; (2) the analysis of human plant and animal food remains; and (3) the geological and other processes that are responsible for the formation of archaeological deposits.

ANTH 125. Historical Archaeology. 3 Units
Term Typically Offered: Fall, Spring

Written history only records a small portion of human activities that occurred in the recent past. Explores the numerous methods of investigation, analysis and interpretation that are available to aid the historical archaeologist in discovering missing information and in some cases correcting erroneous statements, assumptions and interpretations about the past.

ANTH 126. Techniques of Archaeological Analysis. 3 Units
Prerequisite(s): ANTH 3 and Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall, Spring

Introduces students to various approaches to archaeological analysis, focusing on how different classes of data are collected, classified, and interpreted to resolve research issues. Includes such topics as the handling, treatment, and analysis of flaked and ground stone tools, plant and animal food remains, and other types of archaeological materials. Lecture one hour, laboratory six hours.
Note: May be repeated once for credit.

ANTH 127. Cultural Resource Management in Theory and Practice. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Takes a wide-ranging look at how cultural resources are managed and preserved in California, the greater U.S., and other parts of the world. More than just a review of applicable laws and regulations, it is designed to offer a history of historic preservation, examine its role in our society, and explore the prospects for its continued presence. Practical aspects of Cultural Resource Management (CRM) are reviewed with respect to designing, budgeting, and performing archaeological surveys, site evaluation studies, and data recovery or mitigation programs.

ANTH 128. Indians of California. 3 Units
Term Typically Offered: Fall, Spring

Provides a survey of the traditional cultures of California Native American groups as they existed immediately after Western contact. Exploration of the ecological linguistic, economic, social, political, and religious diversity of California Native American groups provides a background for analysis of current anthropological theories of hunter-gatherer adaptations, subsistence intensification, political economy, cultural complexity, and California prehistory.

ANTH 130. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature and forms of social justice and injustice. Addresses key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academe and social activism in achieving social justice. Cross listed as ID 124, ENVS 124, ETHN 124, FACS 124 and SOC 124. Only one may be counted for credit.

ANTH 131. Europe in the Ethnographic Imagination. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

More than a place or "continent," Europe is a social and ideological construction employed to unite diverse linguistic and cultural communities. Focuses on major themes in contemporary Europeanist anthropology, including transformations within and between local communities and regions (especially with regards to Northern Ireland, the former Society bloc, and Yugoslav federation), immigration, neo-nationalist extremism, the changing character of religious institutions, and the European Union as a framework for organizing identity and society.
The relationship between health, culture, and power, from the perspective of critical medical anthropology. Students will develop cross-cultural, historical, and ethical perspectives on health and explore the socio-cultural factors that contribute to health inequity. We will explore various health-oriented social movements to understand how injustice is embodied, as health has become a key vernacular of justice in a biopolitical era.

**ANTH 133. Life of Primates.**

*Prerequisite(s):* Any lower-division Area B2 GE course

**General Education Area/Graduation Requirement:** Upper Division Further Studies in Area B5

**Term Typically Offered:** Fall, Spring, Summer

Introduction to the biology of non-human primates - our closest living relatives with evolutionary histories that are simultaneously linked with and independent of our own, leading to a startling diversity of species and lifeways. Covers the living diversity of primates, their evolutionary origins and the relationships among living and fossil species, the social and ecological pressures selecting for anatomical/physiological and cognitive adaptations, the structures of their communities, and the existential threats faced by non-human primate species in a human-impacted world.

**ANTH 134. Japanese Culture and Society.**

**General Education Area/Graduation Requirement:** Humanities (Area C2)

**Term Typically Offered:** Fall, Spring

Culture of the Japanese: traditional and modern, rural and urban, cultural and social institutions; village and urban organization; and family structure. Aspects of social change in contemporary rural and urban Japan.

**ANTH 135. Indians of North America.**

**Term Typically Offered:** Fall, Spring

Provides a survey of traditional Native American societies and culture areas north of Mexico. Readings, lectures, and discussions emphasize primary ethnographic and historic data that provide the richest accounts of Amerindian cultures at the time of European contact and shortly thereafter.

**ANTH 138. Peopling of North America.**

*Prerequisite(s):* ANTH 3

**Term Typically Offered:** Fall, Spring

Introduction to the earliest evidence of human occupation of North America. Covered topics include the origins of the indigenous populations, the timing of the initial colonization, the number of migration events, paleoenvironment reconstruction, and causes for megafaunal extinctions. A variety of evidence will be discussed in detail, including chronology, paleoenvironmental data, the material culture, modern and ancient genetics, and linguistic prehistory. Political and social dimensions of conducting research on origins of Native Americans are also reviewed.
ANTH 146. Ethnographic Analysis. 3 Units
**Prerequisite(s):** ANTH 2.
**Term Typically Offered:** Fall, Spring

Introduces students to current techniques, theories, and debates in ethnographic research and analysis through the use of ethnographies and related works. Critically examines the production of ethnographic knowledge in socio-cultural anthropology from historical and contemporary perspectives.

ANTH 147. Peoples of Southeast Asia. 3 Units
**General Education Area/Graduation Requirement:** GE AREA D
**Term Typically Offered:** Fall, Spring, Summer

Survey of the native peoples of Southeast Asia (Laos, Vietnam, Thailand, Philippines, Malaysia, Indonesia, Burma and Singapore). Emphasis is on examining the forms of social and cultural pluralism in contemporary Southeast Asian societies.

ANTH 148. Anthropology of Chinese Societies. 3 Units
**Term Typically Offered:** Fall, Spring

Exploration of the cultures of three Chinese societies (Taiwan, Hong Kong, and the People's Republic of China) in each of their unique historical contexts. A comparison and contrast of how these societies, though sharing a common cultural heritage, have had different paths of development in recent times. Aspects of culture examined include: the state and political institutions; religious systems; kinship and social organization; economic processes; and issues of regional integration, nationalism and transnationalism.

ANTH 149. Cultures of South Asia. 3 Units
**General Education Area/Graduation Requirement:** GE AREA D
**Term Typically Offered:** Fall, Spring

Exploration of cultural practices in different South Asian societies. Analyzes the impact of colonialism, post-colonialism and discourses of modernity on South Asian societies. Examines the process of state formation, nation-building, communal conflict, economic transformations and the politics of caste, gender and class in contemporary South Asia.

ANTH 150. Human Osteology. 4 Units
**Prerequisite(s):** ANTH 1 and ANTH 1A, or BIO 22; and Anthropology (Archaeological and Biological Anthropology) concentration.
**Term Typically Offered:** Fall only

Provides students a hands-on, in-depth study of human osteology. Learn growth and development of the skeletal tissues and identification of the individual skeletal elements, and practice basic measurements, sexing and aging of skeletal material. A prerequisite for advanced techniques in forensic anthropology. Students will work with the department’s osteological materials.

ANTH 151. Human Paleontology. 3 Units
**Prerequisite(s):** ANTH 1 and ANTH 1A.
**Term Typically Offered:** Fall, Spring

Survey of the field of human evolution from primate beginnings to modern humans. Emphasizes the interpretation of the fossil evidence and the major trends in hominid evolution, including the origins and relationships of the extinct forms of humans.

ANTH 152. Comparative Primate Morphology. 3 Units
**Prerequisite(s):** ANTH 1 & ANTH 1A
**Term Typically Offered:** Fall, Spring

Study of skeletal and soft-anatomical components of living non-human apes in the context of evolution and development. Covers evolutionary theory, embryology, growth and development, taxonomy, systematics, and basic functional morphology of the skeletal system in primates. Three-hour seminar, with some lecture and hands-on experience with skeletons and casts.

**Note:** BIO 1, BIO 2 or BIO 7 recommended, but not required.

ANTH 153. Evolutionary Medicine. 3 Units
**Term Typically Offered:** Fall, Spring

Introduction to the application of evolutionary theory to human health and disease. Evolutionary medicine is a rapidly growing interdisciplinary specialization utilizing insights from evolutionary theory and human evolutionary ecology to inform understandings of human health, development and disease; and also to critique existing biomedical theory about the human condition. Topics include reproduction, child birth, lactation, growth and development, infectious diseases, parasites, diet and nutrition, mental and behavioral disorders, and substance use and addiction.

**Note:** ANTH 1, BIO 10, BIO 11, or PSYC 2 recommended.

ANTH 154. Primate Behavior. 3 Units
**Term Typically Offered:** Fall, Spring

Provides an introduction to primate social systems and the factors that influence their maintenance and evolution, including foraging strategies, demographic processes, mating and rearing strategies, conflicts and coalitions, and communication. Discussion of the theory guiding primate behavioral research will be supplemented with readings emphasizing current research in the field, to provide an understanding of how behavioral research is conducted and the diversity of primate behavior.

ANTH 155. Fundamentals of Biological Anthropology. 3 Units
**Prerequisite(s):** ANTH 1 and ANTH 1A.
**Term Typically Offered:** Fall, Spring

Survey of the development of method and theory in physical anthropology from its origins in zoology, anatomy, and medicine, to the various approaches currently used in the study of human biology and evolution. Concepts considered include the scientific method, modern genetics, evolutionary theory, the race concept and other approaches to explaining human variation, taxonomy and systematics, and macro-evolutionary models. Critical reading and analytical skills will be emphasized.

ANTH 156. Evolution of Human Behavior. 3 Units
**Prerequisite(s):** ANTH 1, BIO 10, or PSYC 2 recommended.
**Term Typically Offered:** Fall, Spring

Introduction to the application of evolutionary theory to human behavior and psychology. Reviews and contrasts contemporary perspectives of human behavioral evolution with emphasis on insights from the emerging field of evolutionary psychology. Topics include human behavior and cognition as adaptations, "selfish genes," game theory, evolution of social behavior, evolution of altruism, human mating strategies, parenting, behavioral disorders, evolution of the life cycle, human behavioral ecology, Darwinian medicine, and evolutionary psychology.
ANTH 157. Human Variation. 3 Units
Prerequisite(s): ANTH 1, BIO 10, or instructor permission.
Term Typically Offered: Fall, Spring
Survey of the basic principles of human genetics with emphasis on the mechanisms that shape human evolution and the development of human races. Analyzes the laws of heredity as exhibited in modern human populations and human adaptability to climatic extremes. Historical development of concepts. Discussion of most current research.

ANTH 158. Human Skeletal Analysis. 4 Units
Prerequisite(s): ANTH 150. Paired Course
Term Typically Offered: Spring only
Provides advanced techniques in osteology and forensic anthropology essential for many practicing physical anthropologists. Discussion and survey of the primary literature, followed by intensive hands-on experience with human skeletal remains. Included: techniques for determining age, sex and ethnicity; measurement; pathology; and trauma. The role of the forensic anthropologist and archaeologist, ethical considerations, and human rights issues are also covered. Two-hour seminar, and a six-hour lab involving substantial hands-on experience with human skeletal remains.

ANTH 159. Forensic Anthropology. 3 Units
Prerequisite(s): Any lower-division GE Area B2 course.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
Overview of forensic anthropology - an applied field of biological anthropology that works with law enforcement, medical examiners, and human rights agencies. Forensic anthropologists answer questions of medico-legal significance by applying techniques designed for analysis of human skeletal remains. Includes determining time since death, the biological profile, trauma analysis and the role of the forensic anthropologist in human rights investigations.

ANTH 160. Linguistic Anthropology. 3 Units
Prerequisite(s): ANTH 4 or instructor permission.
Term Typically Offered: Fall, Spring
Introduction to language and linguistics for anthropologists with emphasis on the role of linguistic anthropology in the development of theory and method within the discipline; non-human communication systems, language acquisition, and culture theory; the fundamentals of descriptive and structural linguistics; types of human languages; the diversity and distribution of languages from prehistoric to modern times; fundamentals of historical linguistics and proto-cultural studies.

ANTH 161. African Cultures and Societies. 3 Units
Prerequisite(s): ANTH 146 or instructor approval
Term Typically Offered: Fall, Spring
Explores the cultural richness and regional variation of African societies. Engages students with central issues and debates pertaining to Africa in relation to the deepening global interconnectedness of the human socio-cultural worlds. Topical discussions include: colonial legacy, the postcolonial state and traditional authority; ethnic identity and cultural diversity; family, kinship and the African youth; masculinity, sexuality and women; Islam, Christianity and indigenous spirituality; health, poverty and development; migration and globalization; ecotourism and African cultures.

ANTH 162. Language and Culture. 3 Units
Prerequisite(s): ANTH 4 or instructor permission.
Term Typically Offered: Fall, Spring
Relationship between language and culture; historical relationships between languages; language families and major cultural traditions; cross-cultural studies of how the language influences perception and the organization of reality; the ways in which language is embedded in social life and practices, and the ways in which various cultural patterns and values are reflected in language.

ANTH 163. Urban Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring
Overview of both anthropological method and theory applied to research of urban environments and a survey of significant anthropological studies that have been conducted in these settings. Examines such topics as the urbanization process, the culture of cities, urban sub-cultures, social problems in urban areas, social networks and adaptive kinship strategies in cities, and the concentration and exercise of power, wealth and influence in urban centers.

ANTH 164. Culture Change. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring
Anthropological study of mechanisms and process of social and culture change; basic theories of ecological adaptation and cultural evolution; action chains and cultural patterns; technological innovation, migration, acculturation, cultural dissonance, conflict, and cultural revitalization; analysis of case studies emphasizing contemporary conditions and problems; rapid technological innovation, population control, immigration and acculturation, social diversification, ethnic conflict.

ANTH 165. Applied Anthropology. 3 Units
Prerequisite(s): ANTH 105 or ANTH 108 or ANTH 140 or ANTH 141 or ANTH 142 or ANTH 167 or ANTH 168 or ANTH 176; and Anthropology (Culture, Language, and Society) concentration.
Term Typically Offered: Fall, Spring
Provides tools for exploring the application of an anthropological paradigm to various aspects of culture change and conflict. Content is organized into a series of critical topical areas such as modernization, economic development, human services, and urbanization.

ANTH 166. Rise of Religious Cults. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer
Examination of cult movements, involving comparisons of the ideals, objectives and symbolic processes common to ecstatic religious movements throughout the world -- from Melanesian cargo cults to the Peoples’ Temple. Anthropological perspectives are used to examine religious cults as conscious attempts to perpetuate traditional values and social goals or to radically change the status quo; millenarian movements, crisis cults, nature communes, exotic religious imports, and cult characteristics of modern secular movements.
ANTH 167. Religion and Culture.
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Examines ethnographic perspectives on the character and intersections of religion, ritual, and culture. Surveys the thought of "classical" social theorists (e.g., Durkheim, Tylor, Weber, and Evans-Pritchard), and concentrates on central topics in the anthropology of religion. Including the political nature of embodiment and trance, religion and nationalism, the significance of language and performance, the gendered character of many religious phenomena, and science and religion as competing epistemologies.

ANTH 168. Folklore in Anthropological Perspective.
Prerequisite(s): ANTH 160 or ANTH 162 or instructor permission.
Term Typically Offered: Fall, Spring

Anthropological contributions to the study of folklore; survey of oral literature and other folklore forms, such as myth, folklore, legend, proverb, riddle, and games, in their social contexts; folklore as "autobiographical ethnography," folklore in everyday life, survey and comparison of folklore traditions in several culture areas.

Prerequisite(s): ANTH 160 or ANTH 162, and Anthropology (Culture, Language, and Society) concentration.
Term Typically Offered: Fall, Spring

Consideration of language in its social context: language and power, language and gender, interethnic communication, language and race, pidgins and creoles, multilingualism, standardization, language ideology. Instruction in ethnographic and linguistic methods of data collection and analysis; identification of socially significant linguistic variables. Contributions of the study of contextualized speech to linguistic theory.

ANTH 170. The Religious Landscape of the Sacramento Valley.
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall

Introduction to the field study of religious communities. Addresses the nature of religious pluralism in the U.S. today. The practice and belief systems of at least five different religious communities will be studied each semester. Students are required to do an in-depth term project based on research in one or more religious communities. Cross Listed: HRS 170; only one may be counted for credit.

Prerequisite(s): ANTH 1 and ANTH 1A or instructor permission
Term Typically Offered: Fall, Spring

An exploration of research conducted on human remains from archaeological sites, including historical and ethical perspectives. Examines the effects of funerary context and preservation on skeletal remains. Demonstrates relevance of human skeletal analysis to understanding demography, causes of human skeletal variation, dietary patterns, and relevant themes in paleopathological research. Special emphasis placed on infectious disease, growth and development, activity patterns, injury and trauma, craniofacial adaptations, and methods for identifying genetic relationships in human skeletal remains.

Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

Introduces students to current anthropological research on social groups and cultural practices that orient around and draw inspiration from music, where and however it is conceived. Course focus is not on music theory or structure; rather, it critically examines anthropological and ethnographic works that focus on the relations among such social domains and features as visual and aural aesthetics, political belief, gender, ritual, religion, race, and ethnicity.

ANTH 173. Anthropology of Contemporary Asia.
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

This course examines contemporary Asia as an articulation of intersecting historical, cultural, political and economic processes. The course will focus on postcolonial developments and critically explore the manner in which process of globalization and neoliberal strategies embed themselves within, and the responses they elicit from societies across Asia.

ANTH 174. Anthropology of Food.
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

Examines food and eating from an anthropological perspective. Demonstrates how food communicates social messages about individual or group identity, creates social boundaries or forges belonging, and can reflect one's politics, values, and ethics. Through ethnographic examples and attention to global processes, this course explores food production, circulation, and consumption.

ANTH 175. Anthropology of Globalization.
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

The course introduces students to major themes that inform anthropological understanding of globalization. This course will explore theoretical perspectives, topics, and methods of analysis developed in anthropology to capture the effects of intermingling global/local cultural forces and the diverse relations of power that structure them and in which they are embedded.
ANTH 176. Museums, Culture, and Society. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Provides an introduction to museum anthropology. Surveys the emergence of modern anthropology from its origins in 17th century natural history to its late 19th century institutionalization in museums. Explores the role of collectors, curators and financial patrons in the development of museums and social theory. Examines the contemporary poetics and politics of museums and cultural interpretation, including cultural property rights, cultural self-representation, collaborative exhibit development, and the ethnography of museums.

ANTH 177. Museum Methods. 3 Units
Prerequisite(s): ANTH 176 and Anthropology (Culture, Language, and Society) concentration.
Term Typically Offered: Fall, Spring

Combined lecture and laboratory course designed to teach basic museum methods. Surveys contemporary issues and practices in museum governance, management, interpretation, and evaluation. Provides hands-on collections and exhibit experience, including participation in the design, fabrication and installation of an exhibition.

ANTH 178. Internship. 3 - 4 Units
Term Typically Offered: Fall, Spring

Practical experience in an approved professional environment. Student intern will work directly with professionals in public and private agencies where opportunities exist for anthropological work. Supervision and evaluation are provided by a faculty internship director and the on-site supervisor. Placements require from 15-20 hours per week. Note: May be repeated for credit.

Credit/No Credit

ANTH 179. Observing Primate Behavior. 3 Units
Prerequisite(s): ANTH 1 and ANTH 1A and Anthropology (Archaeological and Biological Anthropology) concentration or instructor permission.
Field trip
Term Typically Offered: Spring only – odd years

Introduces research design and methods employed in the study of non-human primate behavior. Topics covered include developing ethograms, behavioral and ecological sampling techniques, and basic methods for data analysis, including simple descriptive and analytical statistics. Culminates in a research report to address a specific research question through behavioral observations conducted at the Sacramento Zoo.

ANTH 181. Anthropology of Human Rights. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Examines multiple dimensions of human rights from an anthropological perspective. Explores the history and development of human rights ideas and legal conventions, and how these ideas and conventions are appropriated, adapted, contested or rejected in different cultural and political contexts. Using ethnographic case studies from around the world, addresses how the human rights discourse mediates the relationship between specific groups of people, their national states and international conventions and institutions.

ANTH 183. Women Cross-Culturally. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Position of women in various societies, preliterate through contemporary industrial; the evolution of women’s roles and rights cross-culturally.

ANTH 186. Culture and Poverty. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring

Analyzes poverty in American society: the cross-cultural context, social inequality in the U.S., theoretical perspectives and their influence on policy, present trends and implications for the future.

ANTH 187. Health Research in Biological Anthropology. 3 Units
Prerequisite(s): ANTH 1 and instructor permission.
Term Typically Offered: Spring only – even years

A laboratory-based introduction to health research methods in biological anthropology, with an emphasis on biological and behavioral health indicators in populations of living humans. The course will introduce students to health research design, measurement methods, and analysis. Lab topics will include biomarkers, survey methods, qualitative approaches, anatomical measurement, energetics and diet, vital statistics, and the use of behavioral health research instruments.

ANTH 188. Anthropology of the Body. 3 Units
Term Typically Offered: Fall, Spring

Study of the diverse ways that humans explain and attempt to alter the human body. Focus is on the meanings and implications of our own bodily experiences through objective comparison of the experiences, explanations and techniques found in our society with those in others.

ANTH 189. Critical Medical Anthropology. 3 Units
Prerequisite(s): ANTH 146
Term Typically Offered: Fall, Spring

Critical Medical Anthropology examines the interplay of cultural, environmental, and biological processes in diverse experiences of health and illness. Students will develop an understanding of the history of Medical Anthropology, its key themes and theoretical perspectives, and its present concerns. We will consider biomedicine as a cultural sphere, track the persistence of ‘alternative’ healing practices and the impact of social determinants on health, and analyze the formation of new demands on states and subjects in the name of suffering.

ANTH 190. Advanced Topics in Linguistic Anthropology. 3 Units
Prerequisite(s): ANTH 160 or ANTH 162 or instructor permission.
Term Typically Offered: Fall, Spring

Seminar examining contemporary developments in theories and methods of linguistic anthropology.

Note: May be repeated for credit providing the topic and instructor are not the same.
ANTH 191. Anthropology Practicum. 3 Units
Prerequisite(s): ANTH 165 or ANTH 169 or ANTH 177 or ANTH 192B; and senior level
Term Typically Offered: Fall, Spring

Students work 3-6 hours per week off campus in one of several research institutions under the supervision of institutional personnel. Students are required to become familiar with the scholarly literature relevant to their placement, to participate in on-campus meetings, and to write a research paper integrating the research and fieldwork aspects of the practicum. Permission of instructor and ANTH coordinator required prior to registration. Open to seniors only.

ANTH 192A. Laboratory Work in Archaeology. 1 Unit
Prerequisite(s): ANTH 195A; may be waived with instructor permission.
Term Typically Offered: Fall, Spring

Introduces methods used in the basic laboratory preservation, cataloging, and initial analysis of various materials recovered through ANTH 195A survey and excavation projects; always offered in conjunction with ANTH 195A.

Note: May be repeated for credit.

ANTH 192B. Laboratory in Ethnographic Techniques. 1 Unit
Prerequisite(s): ANTH 105 or ANTH 108 or ANTH 140 or ANTH 141 or ANTH 142 or ANTH 167 or ANTH 168 or ANTH 176, and Anthropology (Culture, Language, and Society) concentration.
Corequisite(s): ANTH 195B.
Term Typically Offered: Fall, Spring

Design and discussion of research strategies, primary ethnographic techniques, the development of interviewing skills, and practice in the use of various recording technologies.

ANTH 195A. Fieldwork in Archaeology. 2 Units
Prerequisite(s): ANTH 195A
Corequisite(s): ANTH 192B
Term Typically Offered: Fall, Spring

Introduction to archaeological field methods, covering practical aspects of how to identify and investigate isolated artifact finds, particular sites and features, and entire landscapes. Covering survey and excavation techniques, basic approaches to sampling, mapping and navigation, stratigraphic excavation, artifact and feature recording, and recovery methods.

Note: May be repeated for credit.

ANTH 195B. Fieldwork in Ethnology. 2 Units
Prerequisite(s): ANTH 105 or ANTH 108 or ANTH 140 or ANTH 141 or ANTH 142 or ANTH 167 or ANTH 168 or ANTH 176, and Anthropology (Culture, Language, and Society) concentration.
Corequisite(s): ANTH 192B
Term Typically Offered: Fall, Spring

Directed team fieldwork in ethnology.

ANTH 195C. Fieldwork in Physical Anthropology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Individual or group fieldwork in various areas of physical anthropology, under the supervision of individual faculty members; may involve related supervised laboratory work.

ANTH 195S. Senior Seminar in Anthropology. 3 Units
Prerequisite(s): Anthropology majors with senior standing
Term Typically Offered: Fall, Spring

Anthropology approaches knowledge about the human condition from multidisciplinary perspectives. This senior seminar synthesizes fundamental themes from among the sub-disciplines. Students will engage with concepts and issues from different anthropological perspectives, and then work to identify common historical, methodological and theoretical anthropological themes. On completion of the course, students will have learned to seek and interpret anthropological knowledge in a holistic fashion.

ANTH 196T. Zooarchaeology. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

An examination of past and recent research conducted on animal remains from archaeological sites. Discussion and survey of the primary literature in evaluating the role animal exploitation plays in human evolution and among small scale foraging, pastoralist, and complex societies. Emphasis on vertebrate taphonomy, reconstruction of diet from faunal remains, and ecological and evolutionary theory to understand human-animal relationships through time.

ANTH 196U. Language, Digital Literacies, & the Self. 3 Units
Prerequisite(s): ANTH 4
Term Typically Offered: Fall, Spring

Explores ethnographic approaches to digitally-mediated language and the self, examining how social actors acquire the digital skills and communicative norms that make up ‘digital literacies’ across cultural contexts and media ecologies. Topics include linguistic interaction in virtual worlds, media ideologies, technological constraints on digitally-mediated conversation, the role of language in the maintenance of digital communities and protest movements, new forms of meaning-making and affect enabled by the acquisition of digital literacies, and digital research methods.

ANTH 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the individual work is to be conducted and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Open only to students who appear competent to carry on individual work. May be repeated for credit.

Credit/No Credit

ANTH 200. General Methods in Anthropology. 3 Units
Term Typically Offered: Fall, Spring

Explores uses of scientific methodology in anthropology through the examination of specific case studies in the various specialties. Focus is on the relationship among techniques, methods, and methodology; hypothesis and theory; units of analysis and comparison; deductive and inductive reasoning; inferential processes; various types of comparison (casual, controlled, hologeistic); limitations of, and objections to, “the comparative method.”
ANTH 201. Anthropological Theory. 3 Units
Prerequisite(s): Graduate status in anthropology or instructor permission.
Term Typically Offered: Fall, Spring

Intensive reading and seminar discussion in topics on anthropological theory and research.
Note: May be repeated for credit provided topic is not repeated.

ANTH 202. Biological Anthropology Seminar. 3 Units
Term Typically Offered: Fall, Spring

Survey of contemporary issues in physical anthropology.

ANTH 203. Archaeology. 3 Units
Term Typically Offered: Fall, Spring

Explores the intellectual development of archaeological method and theory; examines the history of archaeological thought from its advent to the present day, looking in detail at pre-scientific, culture-historical, processual, and post-processual approaches to the discipline; emphasis is placed on the role of archaeology as a branch of anthropology and as a historical, humanistic, and/or scientific enterprise.

ANTH 204. Current Problems in Archaeological Method and Theory. 3 Units
Term Typically Offered: Fall, Spring

Explores recent methodological and theoretical developments within archaeology; focuses on contemporary debates within the discipline; topical coverage varies; examines conceptual and practical concerns, highlighting possibilities and limitations of new approaches to archaeological problems.
Note: May be repeated for credit provided topic and instructor are not repeated.

ANTH 205. Ethnology. 3 Units
Term Typically Offered: Fall, Spring

Seminar is designed for students to develop a working knowledge of anthropological approaches to a number of major issues in ethnology. The focus is on the analysis of case studies.
Note: May be repeated once for credit with different instructor.

ANTH 207. Language and Culture. 3 Units
Term Typically Offered: Fall, Spring

Critical examination of contemporary studies in the relationship between language and culture; nonhuman primate communication and the origin of speech; non-verbal communication; historical linguistics; comparative semiology; ethnosemantics; applications of linguistic models of analysis in the study of culture.
Note: May be repeated for credit given that the instructor changes.

ANTH 210. Research Design in Anthropology Seminar. 3 Units
Prerequisite(s): instructor permission,
Term Typically Offered: Fall, Spring

Emphasizes research design in anthropology with a focus on proposal writing in the discipline. Centers on the development of the thesis research proposal while gaining insight on the process of acquiring competitive funding from government agencies and private foundations. Covers the fundamentals of identifying a research question, developing hypotheses, comprehensive literature reviews, intellectual merit and broader impacts of research, and budget justification.

ANTH 211. Communicating Anthropology Graduate Colloquium. 1 Unit
Prerequisite(s): Graduate status in anthropology.
Term Typically Offered: Fall, Spring

Seminar for graduate students to develop oral and written communication skills within the discipline, to discuss current topics in the four fields of anthropology, and to introduce students to professional standards in the discipline. Specific topics covered in presentations and workshops will vary each semester.
Note: May be repeated for credit; no more than 3 units may count towards degree.

ANTH 219. Analysis of Faunal Remains. 4 Units
Prerequisite(s): Graduate status in Anthropology or instructor permission.
Term Typically Offered: Fall only – even years

Seminar on techniques and methods employed in analysis of faunal remains from archaeological sites, coupled with a laboratory providing hands-on identification of mammalian remains from these settings. Large focus on quantitative methods used in zooarchaeology to infer behavioral patterns of the human past and their paleoenvironments.

ANTH 222. Bioarchaeology Seminar. 3 Units
Prerequisite(s): Graduate status in anthropology.
Term Typically Offered: Fall, Spring

Provides an intensive, detailed discussion of method and theory in the skeletal biology of past human populations. Topics discussed include: demography, dietary analysis, mortuary dimensions, health and disease, biological distance and DNA analysis. Focuses on the interaction of biology and behavior, particularly the influence of culture and the environment on the skeletal and dental tissues.

ANTH 223. Areal Archaeology. 3 Units
Term Typically Offered: Fall, Spring

Provides an intensive examination of archaeological problems within a selected regional or topical area. Through general readings and case studies, students will critically assess how current perspectives regarding relevant issues have evolved and determine how contemporary viewpoints might be improved or expanded.
Note: May be repeated for credit provided topic and instructor are not repeated.

ANTH 226. Advanced Techniques of Archaeological Analysis. 3 Units
Prerequisite(s): ANTH 126 or instructor permission.
Term Typically Offered: Fall, Spring

Examines more refined approaches to archaeological analysis, focusing on how various classes of data are collected, classified, and interpreted to resolve directed research problems. Emphasis is on such topics as sampling procedures and statistical assessment of data rather than descriptive analysis and interpretation. Lecture one hour; laboratory six hours.

ANTH 251. Human Paleontology. 3 Units

Survey of the field of human evolution from primate beginnings to modern humans. Emphasizes the interpretation of the fossil evidence and the major trends in hominid evolution, including the origins and the relationships of the extinct forms of humans.
ANTH 254. Primate Behavioral Ecology. 3 Units
Prerequisite(s): Graduate status in Anthropology or instructor permission.
Term Typically Offered: Fall, Spring

Provides an intensive, detailed discussion of theoretical models and empirical studies of the behavior of non-human primates. Topics discussed include: grouping patterns, mating strategies, dominance, cooperation, and the adaptive values of social bonds. Focuses on the interaction of ecology and social behavior, particularly the influence of behavioral strategies that enhance reproductive success, and corresponding emergent group-level properties.

ANTH 258. Human Skeletal Analysis. 4 Units
Prerequisite(s): ANTH 150 or instructor permission. Paired course
Term Typically Offered: Spring only

Provides advanced techniques in osteology and forensic anthropology essential for many practicing physical anthropologists. Discussion and survey of the primary literature, followed by intensive hands-on experience with human skeletal remains. Included: techniques for determining age, sex and ancestry; measurement; pathology; and trauma. The role of the forensic anthropologist and archaeologist, ethical considerations, and human rights issues are also covered. Course format is a two-hour seminar, and a six-hour lab involving substantial hands-on experience with human skeletal remains.

ANTH 274. Environmental Anthropology. 3 Units
Term Typically Offered: Fall, Spring

Examines the mutual constitution of nature-culture, society-environment in diverse ethnographic settings. Demonstrates that ideas about nature and material engagements with it are shaped by the dynamics of social, political, and economic relations in historical contexts. Surveys a range of environmental issues and the cultural politics of environmental struggles through different conceptual, theoretical, analytical approaches in cultural anthropology.

ANTH 276. Museum Anthropology. 3 Units
Prerequisite(s): Graduate status in Anthropology or instructor permission.
Term Typically Offered: Fall, Spring

Surveys the practical, theoretical, and historical dimensions of museum anthropology and material culture studies, with particular emphasis on the U.S. and California. Situates contemporary issues related to the collection, exhibition, and repatriation of ethnographic and archaeological materials within the sociopolitical context of the globally based indigenous rights movement.

Note: Recommended for graduate students who plan to intern in the Anthropology Museum.

ANTH 278. Internship. 3 - 4 Units
Term Typically Offered: Fall, Spring

Practical graduate level experience in an approved professional environment. Student intern will work directly with professionals in public and private agencies where opportunities exist for anthropological work. Supervision and evaluation are provided by a faculty internship director and the on-site supervisor. Placements require from 15-20 hours per week.

Note: May be repeated for credit given that topic and instructor changes.

Credit/No Credit

ANTH 292A. Laboratory Work in Archaeology. 1 Unit
Prerequisite(s): ANTH 192A.
Corequisite(s): ANTH 295A.
Term Typically Offered: Fall, Spring

Laboratory preservation, cataloging and initial analysis of materials recovered through archaeological fieldwork. Graduate students are expected to help supervise undergraduate students and complete a self-directed project under the supervision of the instructor.

Note: Participant must have already completed ANTH 192A or its equivalent. May be repeated once for credit.

ANTH 295A. Fieldwork in Archaeology. 2 Units
Prerequisite(s): ANTH 195A or equivalent.
Corequisite(s): ANTH 292A.
Term Typically Offered: Fall, Spring

Students will assist the instructor in supervising undergraduate students or complete an assigned project in addition to the required fieldwork.

Note: May be repeated given that the topic and instructor changes.

ANTH 295B. Fieldwork in Ethnology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Supervised graduate level fieldwork in ethnology and ethnography.

ANTH 295C. Fieldwork in Physical Anthropology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Supervised graduate level fieldwork in physical anthropology. May include laboratory research.

ANTH 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of faculty member under whom individual work is to be conducted and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Open only to students who appear competent to carry on individual work at the graduate level; May be repeated given that topic and instructor changes; May be taken twice in the same semester.

Credit/No Credit

ANTH 500. Master's Thesis. 3 Units
Prerequisite(s): Advanced to Candidacy, successful completion of thesis research proposal, and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the master's degree. Number of units of credit is determined by the candidate's Master's degree advisory committee. Should be taken in final semester prior to the completion of all requirements for the degree.

BA in Anthropology (Archaeology and Biological Anthropology)

Units required for Major: 52, includes units of study in chosen concentration
Total units required for BA: 120

Program Description

The Archaeological and Biological Anthropology concentration provides students with the knowledge, skills and perspectives of scientific anthropology. It prepares students for careers in the anthropological
sciences, such as cultural resources management, skeletal identification, zoological or museum technicians, or for graduate training.

**Minimum Grade Requirement**
Except for General Electives, all requirements must be completed with a grade of "C-" or better.

**Program Requirements**

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<tr>
<th>Code</th>
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<tr>
<td><strong>Required Lower Division Core Courses (13 Units)</strong></td>
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<tr>
<td>ANTH 1</td>
<td>Introduction to Biological Anthropology ¹</td>
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<td>ANTH 1A</td>
<td>Biological Anthropology Laboratory ¹</td>
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<td>ANTH 2</td>
<td>Introduction to Cultural Anthropology</td>
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<td>ANTH 3</td>
<td>Introduction to Archaeology ¹</td>
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<tr>
<td>ANTH 4</td>
<td>Language, Culture, and Critical Thinking ¹</td>
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**Upper Division Core Requirements (12 Units)**

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<tbody>
<tr>
<td>ANTH 146</td>
<td>Ethnographic Analysis</td>
<td>3</td>
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<tr>
<td>ANTH 162</td>
<td>Language and Culture</td>
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<td>Select one of the following:</td>
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<tr>
<td>ANTH 111</td>
<td>California Archaeology</td>
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<td>ANTH 112</td>
<td>Great Basin Archaeology</td>
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<td>ANTH 113</td>
<td>Prehistory of the Southwest</td>
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<td>ANTH 114</td>
<td>North American Prehistory</td>
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<td>ANTH 122</td>
<td>The Evolution of Early Mesoamerican States</td>
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<td>ANTH 138</td>
<td>Peopling of North America</td>
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<td>Select one of the following:</td>
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<td>ANTH 151</td>
<td>Human Paleontology</td>
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<td>ANTH 155</td>
<td>Fundamentals of Biological Anthropology</td>
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<td>ANTH 157</td>
<td>Human Variation</td>
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**Additional Requirement (3 Units)**

Anthropology majors select one statistics course ¹, ²

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<tr>
<td>ANTH 123</td>
<td>Ancient Technology</td>
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<td>ANTH 127</td>
<td>Cultural Resource Management in Theory and Practice</td>
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<td>ANTH 128</td>
<td>Indians of California</td>
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<td>ANTH 135</td>
<td>Indians of North America</td>
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<td>ANTH 153</td>
<td>Evolutionary Medicine</td>
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<td>ANTH 158</td>
<td>Human Skeletal Analysis</td>
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**Additional Requirements for Concentrations (24 Units)**

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<td>Archaeology &amp; Biological Anthropology Concentrations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Culture, Language &amp; Society Concentration</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Anthropology Concentration</td>
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</tr>
</tbody>
</table>

**Total Units**

52

¹ Course also satisfies General Education (GE)/Graduation Requirement.
² e.g. STAT 1, or one approved by the Department.

**Concentration in Archaeology & Biological Anthropology (24 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td><strong>Required Upper Division Courses (18 Units)</strong></td>
<td></td>
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<tr>
<td></td>
<td>Archaeology Theory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>ANTH 107</td>
<td>Anthropology of Hunters and Gatherers</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 109</td>
<td>Ecological and Evolutionary Approaches to Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 110</td>
<td>Archaeological Method and Theory</td>
<td></td>
</tr>
<tr>
<td>ANTH 115</td>
<td>Origins of Agriculture</td>
<td></td>
</tr>
</tbody>
</table>

**Theory in Biological Anthropology**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ANTH 151</td>
<td>Human Paleontology (If not taken as a core course)</td>
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<tr>
<td>ANTH 152</td>
<td>Comparative Primate Morphology</td>
<td></td>
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<tr>
<td>ANTH 154</td>
<td>Primate Behavior</td>
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<tr>
<td>ANTH 156</td>
<td>Evolution of Human Behavior</td>
<td></td>
</tr>
<tr>
<td>ANTH 157</td>
<td>Human Variation (If not taken as a core course)</td>
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</tr>
<tr>
<td>ANTH 171</td>
<td>Bioarchaeology: Analyzing Human Remains from Archaeology Sites</td>
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</table>

**Laboratory Methods**

Select one of the following: 3

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ANTH 119</td>
<td>Analysis of Faunal Remains</td>
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<tr>
<td>ANTH 120</td>
<td>Introductory Statistics for Anthropologists</td>
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</tr>
<tr>
<td>ANTH 124</td>
<td>Environmental Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTH 126</td>
<td>Techniques of Archaeological Analysis</td>
<td></td>
</tr>
<tr>
<td>ANTH 150</td>
<td>Human Osteology</td>
<td></td>
</tr>
<tr>
<td>ANTH 179</td>
<td>Observing Primate Behavior</td>
<td></td>
</tr>
<tr>
<td>ANTH 187</td>
<td>Health Research in Biological Anthropology (Health Research in Biological Anthropology.)</td>
<td></td>
</tr>
<tr>
<td>ANTH 192A</td>
<td>Laboratory Work in Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTH 195A</td>
<td>Fieldwork in Archaeology</td>
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</table>

**Breadth Requirement**

Select three from all the upper division courses listed above plus the following: 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ANTH 123</td>
<td>Ancient Technology</td>
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<tr>
<td>ANTH 127</td>
<td>Cultural Resource Management in Theory and Practice</td>
<td></td>
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<tr>
<td>ANTH 128</td>
<td>Indians of California</td>
<td></td>
</tr>
<tr>
<td>ANTH 135</td>
<td>Indians of North America</td>
<td></td>
</tr>
<tr>
<td>ANTH 153</td>
<td>Evolutionary Medicine</td>
<td></td>
</tr>
<tr>
<td>ANTH 158</td>
<td>Human Skeletal Analysis</td>
<td></td>
</tr>
</tbody>
</table>

**General Electives (6 Units)**

Select any two upper division courses from all of the above, plus the courses listed below or any related discipline (with approval from Major Advisor and Department Chair).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ANTH 108</td>
<td>Economic Anthropology</td>
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<tr>
<td>ANTH 117</td>
<td>World Prehistory and the Evolution of Modern Humanity</td>
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<tr>
<td>ANTH 118</td>
<td>The Anthropocene: Human Impacts on Ancient Environments</td>
<td></td>
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<tr>
<td>ANTH 132</td>
<td>Health, Culture, Power: Topics in Medical Anthropology (Health, Culture, Power: Topics in Medical Anthropology)</td>
<td></td>
</tr>
<tr>
<td>ANTH 133</td>
<td>Life of Primates</td>
<td></td>
</tr>
<tr>
<td>ANTH 147</td>
<td>Peoples of Southeast Asia</td>
<td></td>
</tr>
<tr>
<td>ANTH 159</td>
<td>Forensic Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 161</td>
<td>African Cultures and Societies</td>
<td></td>
</tr>
<tr>
<td>ANTH 166</td>
<td>Rise of Religious Cults</td>
<td></td>
</tr>
<tr>
<td>ANTH 174</td>
<td>Anthropology of Food</td>
<td></td>
</tr>
<tr>
<td>ANTH 188</td>
<td>Anthropology of the Body</td>
<td></td>
</tr>
<tr>
<td>ANTH 189</td>
<td>Critical Medical Anthropology</td>
<td></td>
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</table>

**Total Units**

24
**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Area A: Basic Subjects (6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>2</td>
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**General Education Requirements (required by Sacramento State) (12 Units)**

**Writing Intensive (WI)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2</td>
<td>Life Forms</td>
<td>0</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>0</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following:</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>2</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
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**Area A: Basic Subjects (6 Units)**

**Area B: Physical Universe and Its Life Forms (4 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2- Area C Course</td>
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<td></td>
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<tr>
<td>C1/C2-Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<td></td>
</tr>
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</table>

**Area C: Arts and Humanities (12 Units)**

**Area D: The Individual and Society (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>Area D Course</td>
<td>0</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
<td>0</td>
</tr>
<tr>
<td>D3</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area E: Understanding Personal Development (3 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>Area E Course</td>
<td>3</td>
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</tbody>
</table>

**Area F: Ethnic Studies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>Area F Course</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**

28

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**BA in Anthropology (Culture, Language and Society)**

Units required for Major: 52 units, includes units of study in chosen concentration

Total units required for BA: 120

**Program Description**

The Culture, Language & Society concentration develops knowledge, skills and perspectives to understand and engage with our diverse, interconnected world. It is designed to meet the needs of students who wish to pursue graduate work or post-baccalaureate careers in government, the non-profit sector, education, healthcare or other contexts that require attention to cultural and linguistic dynamics.

**Minimum Grade Requirement**

Except for General Electives, all requirements must be completed with a grade of "C-" or better.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Lower Division Core Courses (13 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>ANTH 1</td>
<td>Introduction to Biological Anthropology</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 1A</td>
<td>Biological Anthropology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 2</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3</td>
<td>Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 4</td>
<td>Language, Culture, and Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Upper Division Core Requirements (12 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>ANTH 146</td>
<td>Ethnographic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 162</td>
<td>Language and Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 111</td>
<td>California Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 112</td>
<td>Great Basin Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 113</td>
<td>Prehistory of the Southwest</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 114</td>
<td>North American Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 122</td>
<td>The Evolution of Early Mesoamerican States</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 138</td>
<td>Peopling of North America</td>
<td>3</td>
</tr>
</tbody>
</table>
BA in Anthropology (Culture, Language and Society)

ANTH 157 Human Variation

Additional Requirement (3 Units)

Anthropology majors select one statistics course

Additional requirements for Concentrations (24 Units)

Select one of the following:

- Archaeology & Biological Anthropology Concentrations
- Culture, Language & Society Concentration
- General Anthropology Concentration

Total Units 52

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 e.g. STAT 1, or one approved by the Department.

Concentration in Culture, Language & Society (24 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
</table>

Theoretical Perspective

Select one of the following: 3

- ANTH 105 Anthropology of War
- ANTH 108 Economic Anthropology
- ANTH 140 Social Anthropology
- ANTH 141 Culture Theory
- ANTH 142 Political Anthropology
- ANTH 160 Linguistic Anthropology
- ANTH 167 Religion and Culture
- ANTH 168 Folklore in Anthropological Perspective
- ANTH 176 Museums, Culture, and Society
- ANTH 189 Critical Medical Anthropology
- ANTH 190 Advanced Topics in Linguistic Anthropology

Methods

Select one of the following: 3

- ANTH 165 Applied Anthropology
- ANTH 169 Research Methods in Linguistic Anthropology
- ANTH 177 Museum Methods
- ANTH 192B Laboratory in Ethnographic Techniques
- ANTH 195B Fieldwork in Ethnology

Breadth Requirement

Select two of the following: 6

- ANTH 131 Europe in the Ethnographic Imagination
- ANTH 144 Contemporary American Culture in Anthropological Perspective
- ANTH 145 Peoples and Cultures of Latin America
- ANTH 161 African Cultures and Societies
- ANTH 163 Urban Anthropology
- ANTH 164 Culture Change
- ANTH 172 Anthropologies of Music
- ANTH 173 Anthropology of Contemporary Asia
- ANTH 174 Anthropology of Food
- ANTH 175 Anthropology of Globalization
- ANTH 181 Anthropology of Human Rights
- ANTH 188 Anthropology of the Body

Practicum (3 Units)

ANTH 191 Anthropology Practicum 3

General Electives (9 Units)

Select any three upper division courses from all of the above, plus the courses listed below, or any related discipline (with approval from Major Advisor and Department Chair). 1

- ANTH 109 Ecological and Evolutionary Approaches to Anthropology
- ANTH 115 Origins of Agriculture
- ANTH 117 World Prehistory and the Evolution of Modern Humanity
- ANTH 118 The Anthropocene: Human Impacts on Ancient Environments
- ANTH 123 Ancient Technology
- ANTH 127 Cultural Resource Management in Theory and Practice
- ANTH 128 Indians of California
- ANTH 132 Health, Culture, Power: Topics in Medical Anthropology (Health, Culture, Power: Topics in Medical Anthropology)
- ANTH 133 Life of Primates
- ANTH 135 Indians of North America
- ANTH 147 Peoples of Southeast Asia
- ANTH 154 Primate Behavior
- ANTH 159 Forensic Anthropology
- ANTH 166 Rise of Religious Cults
- ANTH 192A Laboratory Work in Archaeology
- ANTH 195A Fieldwork in Archaeology

Total Units 24

General Education Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
</table>

Area A: Basic Subjects (6 Units)

A1 - Oral Communication 3
A2 - Written Communication 3
A3 - Critical Thinking 2 0

Area B: Physical Universe and Its Life Forms (4 Units)

B1 - Physical Science 3
B2 - Life Forms 2 0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) 1
B4 - Math Concepts 2 0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. 0

Area C: Arts and Humanities (12 Units)

C1 - Arts 3
C2 - Humanities 3
C1/C2 - Area C Course 3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.

Area D: The Individual and Society (3 Units)

Area D Course 2 0
Area D Course 2 0
Area D Course - Take upper-division course to complete Area & upper division requirements.
Minimum Grade Requirement

Except for General Electives Requirement, all requirements must be completed with a grade of "C-" or better.

Program Requirements

Required Upper Division Core Courses (12 Units)

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<tr>
<th>Code</th>
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<th>Units</th>
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<tbody>
<tr>
<td>ANTH 1</td>
<td>Introduction to Biological Anthropology 1</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 1A</td>
<td>Biological Anthropology Laboratory 1</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 2</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3</td>
<td>Introduction to Archaeology 1</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 4</td>
<td>Language, Culture, and Critical Thinking 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division Core Requirements (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 146</td>
<td>Ethnographic Analysis</td>
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<td>ANTH 162</td>
<td>Language and Culture</td>
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Select one of the following:

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<td>The Evolution of Early Mesoamerican States</td>
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</table>

Required Lower Division Core Courses (13 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1</td>
<td>Introduction to Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 2</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3</td>
<td>Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 4</td>
<td>Language, Culture, and Critical Thinking</td>
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Additional Requirement (3 Units)

Anthropology majors select one statistics course 1,2

Additional requirements for Concentrations (24 Units)

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Anthro 1</td>
<td>Archaeology &amp; Biological Anthropology Concentrations</td>
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<tr>
<td>Anthropology 2</td>
<td>Culture, Language &amp; Society Concentration</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology 3</td>
<td>General Anthropology Concentration</td>
<td>3</td>
</tr>
</tbody>
</table>
Select two of the following: 6

- ANTH 105: Anthropology of War
- ANTH 108: Economic Anthropology
- ANTH 131: Europe in the Ethnographic Imagination
- ANTH 140: Social Anthropology
- ANTH 141: Culture Theory
- ANTH 142: Political Anthropology
- ANTH 144: Contemporary American Culture in Anthropological Perspective
- ANTH 145: Peoples and Cultures of Latin America
- ANTH 160: Linguistic Anthropology
- ANTH 163: Urban Anthropology
- ANTH 164: Culture Change
- ANTH 165: Applied Anthropology
- ANTH 167: Religion and Culture
- ANTH 168: Folklore in Anthropological Perspective
- ANTH 169: Research Methods in Linguistic Anthropology
- ANTH 172: Anthropologies of Music
- ANTH 173: Anthropology of Contemporary Asia
- ANTH 174: Anthropology of Food
- ANTH 175: Anthropology of Globalization
- ANTH 176: Museums, Culture, and Society
- ANTH 177: Museum Methods
- ANTH 181: Anthropology of Human Rights
- ANTH 188: Anthropology of the Body
- ANTH 189: Critical Medical Anthropology
- ANTH 190: Advanced Topics in Linguistic Anthropology
- ANTH 192B: Laboratory in Ethnographic Techniques
- ANTH 195B: Fieldwork in Ethnology

**General Electives (12 Units)**
Select four upper division courses from all of the above plus the following: 12

- ANTH 117: World Prehistory and the Evolution of Modern Humanity
- ANTH 118: The Anthropocene: Human Impacts on Ancient Environments
- ANTH 120: Introductory Statistics for Anthropologists
- ANTH 123: Ancient Technology
- ANTH 127: Cultural Resource Management in Theory and Practice
- ANTH 132: Health, Culture, Power: Topics in Medical Anthropology (Health, Culture, Power: Topics in Medical Anthropology)
- ANTH 133: Life of Primates
- ANTH 147: Peoples of Southeast Asia
- ANTH 149: Cultures of South Asia
- ANTH 158: Human Skeletal Analysis
- ANTH 159: Forensic Anthropology
- ANTH 161: African Cultures and Societies

**ANTH 166: Rise of Religious Cults**

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Area A: Basic Subjects (6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Area B: Physical Universe and Its Life Forms (4 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>0</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following:</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>B1, B2 or B5)</td>
<td></td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>course to complete Area &amp; upper division requirements.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Area C: Arts and Humanities (12 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
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<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper</td>
<td></td>
</tr>
<tr>
<td></td>
<td>division requirements.</td>
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</tr>
<tr>
<td></td>
<td><strong>Area D: The Individual and Society (3 Units)</strong></td>
<td></td>
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<tr>
<td>Area D Course</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>Area D Course</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Area E: Understanding Personal Development (3 Units)</strong></td>
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<td>Area E Course</td>
<td>Area E Course</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Area F: Ethnic Studies</strong></td>
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</tr>
<tr>
<td>Area F Course</td>
<td>Area F Course</td>
<td></td>
</tr>
</tbody>
</table>

**Graduation Requirements**

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Required in Major; also satisfies GE.
Race and Ethnicity in American Society (RE) 3

Foreign Language Proficiency Requirement 2 6

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."
The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

MA in Anthropology
Total units required for MA: 30

Program Description
The Master of Arts program in Anthropology is designed for students who plan to continue their graduate studies in Anthropology at the Ph.D. level as well as for students who plan to pursue any of the numerous opportunities for graduate anthropologists, such as in private research, cultural resource management, private foundations, Foreign Service, education, and government.

The program provides general graduate-level training in four interrelated fields: sociocultural anthropology, archaeology, biological anthropology, and linguistic anthropology. Beyond this foundation, each student designs a plan of coursework specific to their post-graduate goals in one of the four subfields. Students are then expected to demonstrate mastery of their subfield by preparing a thesis of original scholarly research.

Students may develop their special interests through individual arrangements with their faculty advisors, or they may take advantage of opportunities for special training in such areas of Applied Anthropology as cultural resource management, museology, Anthropology in education, and medical Anthropology through participation in ongoing informal programs which may include special field work or intern placement with local agencies. Prospective students should visit the department website or contact the Graduate Coordinator for updated information on special opportunities.

Admission Requirements
Admission to classified graduate standing in Anthropology requires:

• a baccalaureate degree;
• a minimum 3.0 cumulative GPA for all undergraduate coursework.

Applicants lacking an undergraduate degree in anthropology may be conditionally accepted upon satisfactorily completing a set of prerequisite upper-division coursework based on the applicant’s interests and goals in anthropology.

Admission Procedures
To apply, applicants must complete a university application and a separate departmental application by the posted application deadline dates. Please submit the following to the Sacramento State Office of Graduate Studies:

• an online application for admission via CalState Apply;
• one set of official transcripts from all colleges and universities attended, other than Sacramento State. Physical transcripts can be addressed to or dropped off at:
  Office of Graduate Studies
  California State University, Sacramento
  River Front Center 215, MS 6112
  6000 J Street
  Sacramento, CA 95819

For electronic transcripts submissions systems that allow for you to enter an e-mail address, please use the following e-mail address: Grad_Admissions@csus.edu. It is the responsibility of the applicant to enter the correct e-mail address and to confirm that the Office of Graduate Studies has received their transcript(s).

• official Graduate Record Exam (GRE) official scores. The CSUS Institution code is 4671.

For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/.

At the same time, each applicant must file online with the Anthropology Department:

• a completed Supplemental Application Form
• in no more than two pages, provide a statement of interest that includes a brief autobiographical sketch, a statement of your research goals in anthropology, how and why the Anthropology program at Sacramento State can help you achieve your goals (including specific potential faculty mentors), and any other information that may help distinguish you from other applicants.
• two signed letters of recommendation on official letterhead from individuals who can assess the applicant’s potential for graduate study

Each applicant may also submit a CV or resume that reflects relevant professional experience.

For more information regarding the department supplemental application, please visit https://www.csus.edu/anth/

Minimum Units and Grade Requirement for the Degree
Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy
Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure may begin as soon as the classified graduate student has:

• removed any deficiencies in admission requirements;
• completed at least 12 units of 200-level Anthropology courses with a minimum 3.0 GPA;
• completed an approved draft of the thesis research proposal; and
• successfully passed a preliminary exam in their area of study
• completed a Graduate Writing Intensive (GWI) course in their discipline (ANTH 202, ANTH 203, ANTH 205, or ANTH 207) with a grade of "B" or better within the first two semesters of coursework at California State University, Sacramento.

Students should contact the Graduate Coordinator for current deadlines.

Note: Students may not enroll in ANTH 500 until Advanced to Candidacy, successful completion of thesis research proposal, and chair permission of his/her thesis committee. Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a program of study in consultation with his/her Anthropology faculty advisors. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Seminars (6 Units) 1</td>
<td></td>
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</tr>
<tr>
<td>Select the seminar below in your area of study plus one additional core seminar:</td>
<td></td>
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<tr>
<td>ANTH 202</td>
<td>Biological Anthropology Seminar</td>
<td>6</td>
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<tr>
<td>ANTH 203</td>
<td>Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTH 205</td>
<td>Ethnology</td>
<td></td>
</tr>
<tr>
<td>ANTH 207</td>
<td>Language and Culture</td>
<td></td>
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<tr>
<td>Elective Graduate Seminars (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select three of the following graduate seminars or additional core seminars listed above (with thesis advisor approval). 2,3</td>
<td></td>
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<tr>
<td>ANTH 200</td>
<td>General Methods in Anthropology</td>
<td>9</td>
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<tr>
<td>ANTH 201</td>
<td>Anthropological Theory</td>
<td></td>
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<tr>
<td>ANTH 204</td>
<td>Current Problems in Archaeological Method and Theory</td>
<td></td>
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<tr>
<td>ANTH 210</td>
<td>Research Design in Anthropology Seminar</td>
<td></td>
</tr>
<tr>
<td>ANTH 211</td>
<td>Communicating Anthropology Graduate Colloquium</td>
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</tr>
<tr>
<td>ANTH 222</td>
<td>Bioarchaeology Seminar</td>
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</tr>
<tr>
<td>ANTH 223</td>
<td>Areal Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANTH 254</td>
<td>Primate Behavioral Ecology</td>
<td></td>
</tr>
<tr>
<td>ANTH 258</td>
<td>Human Skeletal Analysis</td>
<td></td>
</tr>
<tr>
<td>ANTH 274</td>
<td>Environmental Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 276</td>
<td>Museum Anthropology</td>
<td></td>
</tr>
<tr>
<td>Elective Graduate Course (3 Units)</td>
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<td></td>
</tr>
<tr>
<td>Select any additional 200-level course or seminar with the exception of ANTH 278, ANTH 292, ANTH 295, and ANTH 299. 3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Electives (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select any three elective graduate courses listed above or any upper division courses from the Anthropology major or a related discipline with approval from thesis advisor. 3</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Culminating Requirement (3 Units)</td>
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<td></td>
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<tr>
<td>ANTH 500</td>
<td>Master's Thesis</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1 Grade "B" or better required in each course listed to count towards the core seminar requirement. Grade "B" or better required in one core seminar to count towards the Graduate Writing Intensive (GWI) requirement.

2 ANTH 200, 201, 204, 211 and 223 may be repeated under different instructor or topic.

3 Specific electives must be approved in advance by the student's Thesis Committee. For paired undergraduate-graduate lecture courses, graduate students must enroll at the 200-level. Graduate students who completed the 100-level paired course as an undergraduate may not retake the same course at the 200-level. No more than six semester units of paired coursework may count towards the degree. No more than six semester units of approved course credit from another department may be accepted towards general electives. No more than 3 units of ANTH 211, ANTH 278 or ANTH 299 may be applied to the MA. ANTH 278 and ANTH 299 courses that have passed the seven-year University limit may not be applied to the MA.

4 Students may not enroll in ANTH 500 until Advancement to Candidacy, successful completion of the thesis research proposal, and chair permission of his/her thesis committee. Students who do not finish their thesis within the semester of enrollment in ANTH 500 must enroll in ANTH 599 for up to three consecutive semesters to sustain their graduate standing. Students must re-enroll in ANTH 500 if they do not complete the thesis within four semesters.

Minor in Anthropology

Units required for Minor: 18, twelve of which must be in upper division

Program Description

Anthropology is the study of humans, past and present. Anthropologists take a broad approach to understanding the varieties of human experience, which uniquely places us at the juxtaposition of the social sciences, natural sciences and the humanities. Anthropology is traditionally organized into four subfields that offer distinctive skills.

Program Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ANTH 178</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 195A</td>
<td>Fieldwork in Archaeology</td>
<td>2</td>
</tr>
<tr>
<td>ANTH 195B</td>
<td>Fieldwork in Ethnology</td>
<td>2</td>
</tr>
<tr>
<td>ANTH 195C</td>
<td>Fieldwork in Physical Anthropology</td>
<td>2</td>
</tr>
<tr>
<td>ANTH 199</td>
<td>Special Problems</td>
<td>1</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1 There are no specific course requirements. However, no more than 3 units of the courses below may be counted toward the minor.

Asian Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

Our Asian Studies Program geographically encompasses East Asia (China/Taiwan, Japan, the Koreas, and Mongolia), Southeast Asia (Brunei, Cambodia, East Timor, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, and Vietnam), and South Asia (Afghanistan, Bhutan, India, Maldives, Nepal, Pakistan, and Sri Lanka). We offer in depth examinations of particular countries while also analyzing
transnational issues that connect Asia, other regions, and the rest of the world including the United States.

The major is designed to provide students with a coherent introduction to the language, history, and culture of these Asian societies and to develop an interdisciplinary understanding of the major social and political forces at work in the region, supported by appropriate language training. Graduates of the program either continue their studies at graduate institutions or utilize their knowledge and training through employment in government, business, education, or the non-profit sector relating to this increasingly important region of the world.

The minors offer students a framework to explore one or more Asian societies from an interdisciplinary perspective. It is particularly relevant for students in various academic or applied disciplines who have a regional interest in Asia.

**Degree Programs**

BA in Asian Studies (p. 943)

BA in Asian Studies (Chinese Studies) (p. 945)

BA in Asian Studies (Japanese Studies) (p. 947)

BA in Asian Studies (Korean Studies) (p. 949)

Minor in Asian Studies (p. 952)

Minor in Korean Studies (p. 952)

Minor in South and Southeast Asian Studies (p. 952)

**Special Features**

- The program comprises faculty in departments such as Anthropology, Art, Education, Ethnic Studies, History, Humanities and Religious Studies, Philosophy, Political Science, Psychology, and World Languages and Literatures.
- The program strongly encourages students to expand their horizons through training in Asian languages and study abroad opportunities.
- Our major can help you develop tangible skills: language ability, adaptability, open-mindedness, care & compassion, cultural awareness, knowledge of the region, and more. It is also a program that is well-suited to partnering with your current pathway, earning a credential with a second major, or a minor in Asian Studies, Korean Studies, or South and Southeast Asian Studies.

**Contact Information**

James Rae, Director
Amador Hall 452A
(916) 278-4440
rae@csus.edu

Jeffrey Dym, Vice Director
Tahoe Hall 3088
(916) 278-4425
dym@csus.edu

Rodrigo da Silva, Administrative Support Coordinator
r.silva@csus.edu

www.csus.edu/asia (http://www.csus.edu/asia/)

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**Faculty**

CHIRAPRAVATI, PAT
CHQ, EUNMI
DUBOIS, JOEL
DYM, JEFFREY
KIM-JU, GREG
KWON, JUNE HEE
LEE, YOUNG-IM
MASUYAMA, KAZUE
MONI, SUJATHA
QIN, AMELIA YING
RAE, JAMES DESHAW
SMITH, CURTIS
TRICHUR, RAGHURAMAN
VANN, MICHAEL
VASSIL, KRISTINA SAKAMOTO

**ASIA 1. Asia in the World Today.** 3 Units

General Education Area/Graduation Requirement: GE AREA D

Term Typically Offered: Fall only

This course provides a foundation in the area studies discipline of Asian Studies as a distinct thematic and geographic area of inquiry. Offers a brief introduction to trending issues in East, Southeast, and South Asia, such as migration, human rights, religion, development, food, film, music, etc. through the lens of art, geography, history, culture, economics, society, religion, and politics.

**ASIA 96. The Way of Chanoyu: An Interdisciplinary Approach to the Japanese Tea Gathering.** 3 Units

Term Typically Offered: Fall, Spring

This course traces the development of a multifaceted cultural practice integrating architecture, garden design, art, painting, and calligraphy into a carefully constructed hospitality ritual. Students explore multiple aspects of Japanese Chado via hands-on learning including aesthetic, economic, scientific, socio-political and cultural dimensions associated with tea. The course is taught in the Nakatani Tea Room, including weekly classroom lectures and discussions, demonstrations, on-line learning modules, a group project, and typically, a day field trip to San Francisco. Field trip(s) may be required.

**ASIA 110. Anthropology of Contemporary Asia.** 3 Units

Prerequisite(s): ANTH 146 or instructor permission

This course examines contemporary Asia as an articulation of intersecting historical, cultural, political and economic processes. The course will focus on postcolonial developments and critically explore the manner in which process of globalization and neoliberal strategies embed themselves within, and the responses they elicit from societies across Asia.
ASIA 111. Asian Diaspora and Migration. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall only
Survey of the social, political, and economic factors surrounding contemporary transnational migration across and beyond Asia. Presents a comparative analysis of the impact of colonialism and the Cold War on Asian diaspora and engages with theoretical debates in migration studies. Examines the intersectionality of class, gender, and ethnicity upon immigrant communities in the U.S. and around the world.

ASIA 134. History of Modern Korea. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only
Traces the historical development of modern Korea since the colonial era of the late 19th century. Explores historiographies, theoretical debates, and films dealing with the following themes: national ideology and national bodies, economic and political contentions, modern education and scientific management, class and gender formation, capitalism and urbanization, colonial migration and cosmopolitanism, anti-colonialism, and socialist/revolutionary thought.

ASIA 135. Contemporary Korean Culture. 3 Units
Term Typically Offered: Spring only
This course provides a comprehensive understanding of Korean culture and society through the analysis of contemporary Korean popular media. By critically examining the particular cultural phenomenon of the Korean Wave, this course upholds various Korean popular media (film drama, documentaries, and music) as significant forms of visual culture, which reflect as well as shape the reality of people’s everyday lives both within and outside Korea.

ASIA 136. Korean Development and Behavior. 3 Units
This course examines critical issues in Korean human development and behavior with particular attention given to current theoretical perspectives within a fast developing society. Topics include identity, cognitive development, mental health, tiger parenting, gender roles, socio-emotional development, body image, and transracial adoptions. This course integrates an interdisciplinary approach and includes indigenous discourse on Confucianism and Eastern and Western thought to understand the underlying processes of the Korean heritage person as an individual and as a member of a larger society.

ASIA 137. North Korean Politics and Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only
Examines the unique type of North Korean socialism, nationhood, and 'peoplehood', and provides a new historical and theoretical understanding of militarization, socialist transition in a global economy, social hierarchy, political leadership, and foreign policy. Explores theories of state and socialism, historical narratives, ethnographies, firsthand witness stories, journalistic analysis, documentaries, and films made in and beyond North Korea.

ASIA 140. Modern East Asian Cinema. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Arts (Area C1)
Term Typically Offered: Fall, Spring, Summer
Survey of the development of cinema in Asia, focusing primarily on cinematic masterpieces from China, Hong Kong, and Japan. Focuses on directors, actors, and studios that left a lasting mark on cinema history. Also focuses on how the Asian aesthetic sense differs from the Hollywood norm.
Cross-Listed: HIST 140; only one may be counted for credit.

ASIA 146. US-China Relations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer
This course explores the historical foundation of US-China relations, tracing from 19th century encounters through world wars, ideological confrontation, rapprochement, and into the contemporary era. Focus on international and political dimension of diplomatic and strategic interests, also explores cultural and social connections through trade, investment, migration, and tourism.
Cross-listed: POLS 146.

ASIA 151. Genocide in Southeast Asia. 3 Units
Term Typically Offered: Fall, Spring
Survey of human rights abuses and genocides that have occurred in post-colonial Southeast Asia. Focuses on mass killings in Indonesia and Cambodia and communal riots often targeting the ethnic Chinese community, religious minorities, or highland peoples like the Hmong. Topics include cultural genocide, ideological pressure, and ethnic intolerance. An interdisciplinary literature will interpret the causes and conditions while introducing students to the diverse societies and cultures of Southeast Asia.

ASIA 190. Travel Study in Asia. 1 - 6 Units
Term Typically Offered: Fall, Spring, Summer
A faculty-led study abroad course to Asia. Students will learn about one or more Asian countries through living and traveling in the country(ies), classroom instruction, and field trips to various sites. Fee course. Field trip(s) may be required.

ASIA 195. Internship: Asian Studies. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised work experience on topics related to the study of Asia's art, culture, economics, geography, environment, politics, and government and social issues.
Credit/No Credit
ASIA 198. Modernity and Globalization in Asia. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (W), Humanities (Area C2)

Term Typically Offered: Spring only

Survey of the history, politics, culture, and economy across Asia. Engages with key topics that have shaped Asia as of today and introduces the rise of the modern, building of nation-states, and globalization. Examines the impact of colonialism, imperialism, cold war politics, developmentalism, and global concerns across and beyond Asian countries.

ASIA 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research projects, including directed readings, under the direction of an Asian Studies faculty person.
Credit/No Credit

BA in Asian Studies

Units required for Major: 39-43

Total units required for BA: 120

1 The major requires a minimum of 12 upper division units.

Our Asian Studies Program geographically encompasses East Asia (China/Taiwan, Japan, the Koreans, and Mongolia), Southeast Asia (Brunei, Cambodia, East Timor, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, and Vietnam), and South Asia (Afghanistan, Bhutan, India, Maldives, Nepal, Pakistan, and Sri Lanka). We offer in depth examinations of particular countries while also analyzing transnational issues that connect Asia, other regions, and the rest of the world including the United States. Students may also find interest in minors in Korean Studies and South and Southeast Asian Studies or in Chinese or Japanese language.

The major is designed to provide students with a coherent introduction to the language, history, and culture of these Asian societies and to develop an interdisciplinary understanding of the major social and political forces at work in the region, supported by appropriate language training. Graduates of the program either continue their studies at graduate institutions or utilize their knowledge and training through employment in government, business or education relating to this increasingly important region of the world.

Program Requirements

Code | Title | Units
--- | --- | ---

Core Requirements (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ASIA 1</td>
<td>Asia in the World Today</td>
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<tr>
<td>ASIA 198</td>
<td>Modernity and Globalization in Asia</td>
</tr>
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Foundational Core (6 Units)

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ART 3A</td>
<td>Traditional Asian Art</td>
</tr>
<tr>
<td>ART 3B</td>
<td>Modern and Contemporary Asian Art</td>
</tr>
<tr>
<td>HIST 6</td>
<td>Asian Civilizations</td>
</tr>
<tr>
<td>HRS 70</td>
<td>Arts and Ideas of Asia: Ancient to Medieval</td>
</tr>
<tr>
<td>HRS 71</td>
<td>Arts and Ideas of Asia: Medieval to Modern</td>
</tr>
</tbody>
</table>

Culminating Core (6 Units)

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASIA 110/111</td>
<td>Anthropology of Contemporary Asia</td>
</tr>
<tr>
<td>ANTH 173</td>
<td>Anthropology of Chinese Societies</td>
</tr>
<tr>
<td>ASIA 111</td>
<td>Asian Diaspora and Migration</td>
</tr>
<tr>
<td>POLS 145</td>
<td>Asian Politics</td>
</tr>
<tr>
<td>HIST 192C</td>
<td>Seminar in Recent Interpretations of Asian History</td>
</tr>
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Electives (21-25 Units)

Select seven courses (minimum 21 units) from the following groups:

Group 1: China

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ANTH 148</td>
<td>Anthropology of Chinese Societies</td>
</tr>
<tr>
<td>ASIA/POLS 146</td>
<td>US-China Relations</td>
</tr>
<tr>
<td>CHIN 2A</td>
<td>Intermediate Mandarin</td>
</tr>
<tr>
<td>CHIN 2B</td>
<td>Intermediate Mandarin</td>
</tr>
<tr>
<td>CHIN 110</td>
<td>Advanced Mandarin: Modern Chinese Fiction</td>
</tr>
<tr>
<td>CHIN 120</td>
<td>Chinese Civilization</td>
</tr>
<tr>
<td>CHIN 150</td>
<td>Survey of Chinese Literature</td>
</tr>
<tr>
<td>HIST 148A</td>
<td>China: Antiquity to 1600 AD</td>
</tr>
<tr>
<td>HIST 148B</td>
<td>China, 1600 to Present</td>
</tr>
<tr>
<td>HRS 172</td>
<td>The Classical Culture of China</td>
</tr>
<tr>
<td>HRS 173</td>
<td>Chinese Philosophy and Religion</td>
</tr>
<tr>
<td>KINS 40</td>
<td>Tai Chi</td>
</tr>
<tr>
<td>KINS 118C</td>
<td>Martial Arts: Tai Chi</td>
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<tr>
<td>PHIL 145A</td>
<td>Chinese Philosophy</td>
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Group 2: Japan

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ANTH 134</td>
<td>Japanese Culture and Society</td>
</tr>
<tr>
<td>ASIA 96</td>
<td>The Way of Chanoyu: An Interdisciplinary Approach to the Japanese Tea Gathering</td>
</tr>
<tr>
<td>HIST 146A</td>
<td>Cultural History of Japan to 1800</td>
</tr>
<tr>
<td>HIST 146B</td>
<td>Modern Japan, 1800-present</td>
</tr>
<tr>
<td>HIST 146C</td>
<td>The History of Manga</td>
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<tr>
<td>HRS 174</td>
<td>Modern Japanese Literature and Culture</td>
</tr>
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<td>JAPN 2A</td>
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<tr>
<td>JAPN 2B</td>
<td>Intermediate Japanese</td>
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<tr>
<td>JAPN 110</td>
<td>Introduction to Japanese Literature</td>
</tr>
<tr>
<td>JAPN 116A</td>
<td>Third Year Japanese 1 - Language and Culture of Japan</td>
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<tr>
<td>JAPN 116B</td>
<td>Third Year Japanese 2 - Language and Culture of Japan</td>
</tr>
<tr>
<td>JAPN 120</td>
<td>Japanese Civilization</td>
</tr>
<tr>
<td>JAPN 128</td>
<td>Introduction to Japanese Popular Culture</td>
</tr>
<tr>
<td>JAPN 150</td>
<td>Advanced Japanese Grammar, Conversation</td>
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<tr>
<td>KINS 46</td>
<td>Beginning Judo</td>
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<tr>
<td>KINS 50</td>
<td>Uechi-Ryu Karate</td>
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<tr>
<td>KINS 118A</td>
<td>Martial Arts: Karate</td>
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Group 3: Korea

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<tr>
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<tr>
<td>ASIA 134</td>
<td>History of Modern Korea</td>
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<td>ASIA 135</td>
<td>Contemporary Korean Culture</td>
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<tr>
<td>ASIA 136</td>
<td>Korean Development and Behavior</td>
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<td>ART 117C</td>
<td>Art of Korea</td>
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<td>EDUC 128</td>
<td>Education and Communication in Korean Society</td>
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<td>KINS 43</td>
<td>Beginning Tae Kwon Do</td>
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<td>KINS 118B</td>
<td>Martial Arts: Tae Kwon Do</td>
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<td>KORN 2A</td>
<td>Intermediate Korean 2A</td>
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**Group 4: South and South-East Asia**

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<tbody>
<tr>
<td>ANTH 147</td>
<td>Peoples of Southeast Asia</td>
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<tr>
<td>ANTH 149</td>
<td>Cultures of South Asia</td>
<td></td>
</tr>
<tr>
<td>ART 117A</td>
<td>Art of India and Southeast Asia</td>
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<tr>
<td>ASIA 151</td>
<td>Genocide in Southeast Asia</td>
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<tr>
<td>HIST 144</td>
<td>Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder</td>
<td></td>
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<tr>
<td>HIST 145</td>
<td>South Asian History &amp; Civilization</td>
<td></td>
</tr>
<tr>
<td>HIST/HRS 147</td>
<td>History of Buddhism</td>
<td></td>
</tr>
<tr>
<td>HIST 149</td>
<td>The Making of Modern Southeast Asia</td>
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<tr>
<td>HRS 178</td>
<td>Religions of India</td>
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<tr>
<td>HRS 178A</td>
<td>Religions of India I: The Formative Period</td>
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<tr>
<td>HRS 178B</td>
<td>India's Religions: Jains &amp; Sikhs</td>
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<tr>
<td>HRS 179A</td>
<td>The Hindu Year: Fall</td>
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<tr>
<td>HRS 179B</td>
<td>The Hindu Year: Spring</td>
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<tr>
<td>PHIL 145B</td>
<td>Philosophies Of India</td>
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<td>WOMS 125</td>
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**Group 5: Asian-American**

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<tr>
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<td>Asian American Literature</td>
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<tr>
<td>ETHN 14</td>
<td>Introduction to Asian American Studies</td>
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<tr>
<td>ETHN 110</td>
<td>The Asian American Experience</td>
<td></td>
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<tr>
<td>ETHN 111</td>
<td>Southeast Asians in the US</td>
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<tr>
<td>ETHN 112</td>
<td>Contemporary Asian American Issues</td>
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<td>ETHN 113</td>
<td>Asian American Communities</td>
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<tr>
<td>ETHN 114</td>
<td>Asian Americans and Globalization</td>
<td></td>
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<tr>
<td>ETHN 116</td>
<td>Asian American Politics and Public Policy</td>
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</tr>
<tr>
<td>ETHN/WOMS 118</td>
<td>Asian American Women</td>
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</tr>
<tr>
<td>ETHN 119</td>
<td>The Filipino American Experience</td>
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<tr>
<td>ETHN 121</td>
<td>Hmong American Experiences</td>
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<td>ETHN 122</td>
<td>Sikh Americans and Globalization</td>
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<tr>
<td>ETHN 167</td>
<td>Asian American Families: Issues and Perspectives</td>
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</table>

**Group 6: Pan-Asia**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ART 3A</td>
<td>Traditional Asian Art</td>
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<tr>
<td>ART 3B</td>
<td>Modern and Contemporary Asian Art</td>
<td></td>
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<tr>
<td>ART 113B</td>
<td>Asian Art and Mythology</td>
<td></td>
</tr>
<tr>
<td>ART 115</td>
<td>Topics in Asian Art</td>
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<tr>
<td>ART 117B</td>
<td>Art of China and Japan</td>
<td></td>
</tr>
<tr>
<td>ASIA 110</td>
<td>Anthropology of Contemporary Asia</td>
<td></td>
</tr>
<tr>
<td>ASIA 111</td>
<td>Asian Diaspora and Migration</td>
<td></td>
</tr>
<tr>
<td>ASIA 190</td>
<td>Travel Study in Asia</td>
<td></td>
</tr>
<tr>
<td>ASIA 195</td>
<td>Internship: Asian Studies</td>
<td></td>
</tr>
<tr>
<td>ASIA/HIST 140</td>
<td>Modern East Asian Cinema</td>
<td></td>
</tr>
<tr>
<td>GEOG 125</td>
<td>Geography Of East Asia</td>
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<tr>
<td>HIST 6</td>
<td>Asian Civilizations</td>
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<tr>
<td>HIST/HRS 147</td>
<td>History of Buddhism</td>
<td></td>
</tr>
<tr>
<td>HIST 192C</td>
<td>Seminar in Recent Interpretations of Asian History</td>
<td></td>
</tr>
<tr>
<td>HRS 70</td>
<td>Arts and Ideas of Asia: Ancient to Medieval</td>
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<tr>
<td>HRS 71</td>
<td>Arts and Ideas of Asia: Medieval to Modern</td>
<td></td>
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<tr>
<td>HRS 171</td>
<td>Introduction to the East Asian World</td>
<td></td>
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<tr>
<td>HRS 175</td>
<td>Zen Buddhism and Daoism</td>
<td></td>
</tr>
<tr>
<td>HRS 176</td>
<td>The Confucian Tradition</td>
<td></td>
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<tr>
<td>MUSC 119A</td>
<td>World Music: Asia</td>
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<tr>
<td>POLS 145</td>
<td>Asian Politics</td>
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</tr>
<tr>
<td>SOC 160</td>
<td>Asian Societies</td>
<td></td>
</tr>
</tbody>
</table>

**Language Study**

Language proficiency is not required for the major, however, students are highly encouraged to study an Asian language.

**Total Units** 39-43

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Students must take seven total courses from at least four groups. Seven 3 unit classes will equal 21 units. Kinesiology courses may be 1 unit, while second year Language courses may count for 4 units. Thus, students must complete a minimum of 7 courses that equals a minimum of 21 units, though seven classes that include language may total up to 25 units.

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area B: Physical Universe and Its Life Forms (13 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
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<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area C: Arts and Humanities (3 Units)</strong></td>
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</tr>
<tr>
<td>C1</td>
<td>Arts</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
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<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>0</td>
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<tr>
<td></td>
<td><strong>Area D: The Individual and Society (12 Units)</strong></td>
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<tr>
<td>Area D</td>
<td>Course</td>
<td>3</td>
</tr>
<tr>
<td>Area D</td>
<td>Course</td>
<td>3</td>
</tr>
<tr>
<td>Area D</td>
<td>Course</td>
<td>3</td>
</tr>
<tr>
<td>Area D</td>
<td>Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area E: Understanding Personal Development (3 Units)</strong></td>
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</tr>
<tr>
<td>Area E</td>
<td>Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>40</td>
</tr>
</tbody>
</table>
To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Graduation Requirements (required by CSU) (9 Units)
- American Institutions: U.S. History
- American Institutions: U.S. Constitution & CA Government
- Writing Intensive (WI)

Graduation Requirements (required by Sacramento State) (6 Units)
- English Composition II
- Race and Ethnicity in American Society (RE)
- Foreign Language Proficiency Requirement

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Satisfies Graduation Requirement.

3 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

BA in Asian Studies (Chinese Studies)

Units required for Major: 36
Total units required for BA: 120

1 These 36 units include 12 units of study in a student’s chosen concentration and units equivalent to the last two semesters of an Asian language appropriate to student’s concentration by coursework or a language proficiency examination provided by the Department of Foreign Languages (see below)

Program Description

Pacific Asia, including the nation states on the Asian shores of the Pacific Rim, the Koreas, Japan, China, Taiwan, the Philippines, Vietnam, Cambodia, Thailand, Myanmar, Laos, Malaysia, Singapore, Brunei Darussalam, and Indonesia, is a region of great economic, political and strategic importance, possessing immense natural and human resources.

The major is designed to provide students with a coherent introduction to the language, history, and culture of Asian societies on the western rim of the Pacific Basin. While focusing on Pacific Asia, the program also supports the study of cultures from the Indian subcontinent and other regions of Asia. Each concentration provides an interdisciplinary understanding of the major social and historical forces at work in the region, supported by appropriate language training.

Graduates of the program either continue their studies at graduate institutions or utilize their knowledge and training through employment in government, business or education relating to this increasingly important region of the world.

Program Requirements

Core Requirements (15 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 3A</td>
<td>Traditional Asian Art</td>
<td>3</td>
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<tr>
<td>or ART 3B</td>
<td>Modern and Contemporary Asian Art</td>
<td>3</td>
</tr>
<tr>
<td>ASIA 198</td>
<td>Modernity and Globalization in Asia</td>
<td>3</td>
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<tr>
<td>or HIST 192C</td>
<td>Seminar in Recent Interpretations of Asian History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 6</td>
<td>Asian Civilizations</td>
<td>3</td>
</tr>
<tr>
<td>HRS 70</td>
<td>Arts and Ideas of Asia: Ancient to Medieval</td>
<td>3</td>
</tr>
<tr>
<td>or HRS 71</td>
<td>Arts and Ideas of Asia: Medieval to Modern</td>
<td>3</td>
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<tr>
<td>POLS 145/146/147</td>
<td>Asian Politics</td>
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Concentration Requirements (12 Units)

Select four courses from one of the following concentrations:

Group 1: Japan
- ANTH 134 Japanese Culture and Society
- HIST 146A Cultural History of Japan to 1800
- HIST 146B Modern Japan, 1800-present
- HIST 146C The History of Manga
- HRS 174 Modern Japanese Literature and Culture
- JAPN 120 Japanese Civilization

Group 2: China
- ANTH 148 Anthropology of Chinese Societies
- CHIN 120 Chinese Civilization
- CHIN 150 Survey of Chinese Literature
- HIST 148A China: Antiquity to 1600 AD
- HIST 148B China, 1600 to Present
- HRS 172 The Classical Culture of China
- HRS 173 Chinese Philosophy and Religion
- PHIL 145A Chinese Philosophy

Group 3: Korea
- ASIA 134 History of Modern Korea
- ASIA 135 Contemporary Korean Culture
- ASIA 136 Korean Development and Behavior
- ART 117C Art of Korea
- EDUC 128 Education and Communication in Korean Society

Group 4: South and South-East Asia
## BA in Asian Studies (Chinese Studies)

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ANTH 147</td>
<td>Peoples of Southeast Asia</td>
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<tr>
<td>ANTH 149</td>
<td>Cultures of South Asia</td>
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<tr>
<td>ART 117A</td>
<td>Art of India and Southeast Asia</td>
</tr>
<tr>
<td>ASIA 151</td>
<td>Genocide in Southeast Asia</td>
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<td>GEOG 125</td>
<td>Geography Of East Asia</td>
</tr>
<tr>
<td>HIST 144</td>
<td>Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass</td>
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<td>HIST 145</td>
<td>South Asian History &amp; Civilization</td>
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<tr>
<td>HIST 149</td>
<td>The Making of Modern Southeast Asia</td>
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<tr>
<td>HIST/HRS 147</td>
<td>History of Buddhism</td>
</tr>
<tr>
<td>HRS 178</td>
<td>Religions of India</td>
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<tr>
<td>PHIL 145B</td>
<td>Philosophies Of India</td>
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**Group 5: Asian-American**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ENGL 180M</td>
<td>Asian American Literature</td>
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<td>ETHN 110</td>
<td>The Asian American Experience</td>
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<tr>
<td>ETHN 111</td>
<td>Southeast Asians in the US</td>
</tr>
<tr>
<td>ETHN 112</td>
<td>Contemporary Asian American Issues</td>
</tr>
<tr>
<td>ETHN 113</td>
<td>Asian American Communities</td>
</tr>
<tr>
<td>ETHN 114</td>
<td>Asian Americans and Globalization</td>
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<tr>
<td>ETHN 116</td>
<td>Asian American Politics and Public Policy</td>
</tr>
<tr>
<td>ETHN/WGS 118</td>
<td>Asian American Women</td>
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<tr>
<td>ETHN 119</td>
<td>The Filipino American Experience</td>
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<td>ETHN 121</td>
<td>Hmong American Experiences</td>
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<td>ETHN 122</td>
<td>Sikh Americans and Globalization</td>
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<td>ETHN 167</td>
<td>Asian American Families: Issues and Perspectives</td>
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**Group 6: Pan-Asia**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ASIA 110</td>
<td>Anthropology of Contemporary Asia</td>
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<td>ART 113B</td>
<td>Asian Art and Mythology</td>
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<td>ART 115</td>
<td>Topics in Asian Art</td>
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<tr>
<td>ART 117B</td>
<td>Art of China and Japan</td>
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<tr>
<td>ASIA/HIST 140</td>
<td>Modern East Asian Cinema</td>
</tr>
<tr>
<td>GEOG 125</td>
<td>Geography Of East Asia</td>
</tr>
<tr>
<td>HIST/HRS 147</td>
<td>History of Buddhism</td>
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<tr>
<td>HRS 171</td>
<td>Introduction to the East Asian World</td>
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<tr>
<td>HRS 175</td>
<td>Zen Buddhism and Daoism</td>
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<tr>
<td>HRS 176</td>
<td>The Confucian Tradition</td>
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<td>WGS 121</td>
<td>Women Of The Middle East</td>
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**Group 7: Advanced Language**

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<td>Advanced Mandarin: Modern Chinese Fiction</td>
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<tr>
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<td>Introduction to Japanese Literature</td>
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<td>JAPN 116A</td>
<td>Third Year Japanese 1 - Language and Culture of Japan</td>
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<td>Third Year Japanese 2 - Language and Culture of Japan</td>
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<tr>
<td>JAPN 150</td>
<td>Advanced Japanese Grammar, Conversation</td>
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**Group 8: Fieldwork-Internships**

Select one of the following:

- ASIA 195 | Internship: Asian Studies                                          |
- Approved Internships or Fieldwork in other departments

**Language Proficiency Requirement**

Select from the following courses to fulfill the proficiency requirements: 1,3

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>CHIN 1A</td>
<td>Elementary Mandarin</td>
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<td>CHIN 1B</td>
<td>Elementary Mandarin</td>
</tr>
<tr>
<td>CHIN 2A</td>
<td>Intermediate Mandarin</td>
</tr>
<tr>
<td>CHIN 2B</td>
<td>Intermediate Mandarin</td>
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<tr>
<td>KORN 1A</td>
<td>Elementary Korean 1A</td>
</tr>
<tr>
<td>KORN 1B</td>
<td>Elementary Korean 1B</td>
</tr>
<tr>
<td>KORN 2A</td>
<td>Intermediate Korean 2A</td>
</tr>
<tr>
<td>KORN 2B</td>
<td>Intermediate Korean 2B</td>
</tr>
<tr>
<td>JAPN 1A</td>
<td>Elementary Japanese</td>
</tr>
<tr>
<td>JAPN 1B</td>
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</tr>
<tr>
<td>JAPN 2A</td>
<td>Intermediate Japanese</td>
</tr>
<tr>
<td>JAPN 2B</td>
<td>Intermediate Japanese</td>
</tr>
<tr>
<td>PUNJ 1A</td>
<td>Elementary Punjabi</td>
</tr>
<tr>
<td>PUNJ 1B</td>
<td>Elementary Punjabi</td>
</tr>
</tbody>
</table>

**Total Units**: 36

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Students must take 9 units of electives from three different groupings. Students are not permitted to take an elective from their area of concentration. In other words, Japanese Studies Concentration Majors cannot take courses from group 1, Chinese Studies Concentration Majors cannot take courses from group 2, and Southeast Asia Concentration Majors cannot take courses from group 3.
3. Students must demonstrate proficiency at a level equivalent to four semesters of an Asian language appropriate to their concentration by coursework or a language proficiency examination provided by the Department of Foreign Languages. Students concentrating in South or Southeast Asia can demonstrate proficiency in any South or Southeast Asian Language.

**Concentration in Chinese Studies (12 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 148</td>
<td>Anthropology of Chinese Societies</td>
</tr>
<tr>
<td>CHIN 120</td>
<td>Chinese Civilization</td>
</tr>
<tr>
<td>CHIN 150</td>
<td>Survey of Chinese Literature</td>
</tr>
<tr>
<td>HIST 148A</td>
<td>China: Antiquity to 1600 AD</td>
</tr>
<tr>
<td>HIST 148B</td>
<td>China, 1600 to Present</td>
</tr>
<tr>
<td>HRS 172</td>
<td>The Classical Culture of China</td>
</tr>
<tr>
<td>HRS 173</td>
<td>Chinese Philosophy and Religion</td>
</tr>
<tr>
<td>PHIL 145A</td>
<td>Chinese Philosophy</td>
</tr>
</tbody>
</table>

**Total Units**: 12

**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area A: Basic Subjects (9 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area B: Physical Universe and Its Life Forms (10 Units)**
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)  1
B4 - Math Concepts  3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.  0

Area C: Arts and Humanities (3 Units)
C1 - Arts  2  0
C2 - Humanities  2  0
C1/C2 - Area C Course  2  0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.  3

Area D: The Individual and Society (9 Units)
Area D Course  3  3
Area D Course - Take upper-division course to complete Area & upper division requirements.  3

Area E: Understanding Personal Development (3 Units)
Area E Course  3

Area F: Ethnic Studies
Area F Course

Total Units  34

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Required in Major; also satisfies GE.

3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Asian Studies (Japanese Studies)

Units required for Major: 36
Total units required for BA: 120

1. These 36 units include 12 units of study in a student's chosen concentration and units equivalent to the last two semesters of an Asian language appropriate to student's concentration by coursework or a language proficiency examination provided by the Department of Foreign Languages (see below)

Program Description

Pacific Asia, including the nation states on the Asian shores of the Pacific Rim, the Koreas, Japan, China, Taiwan, the Philippines, Vietnam, Cambodia, Thailand, Myanmar, Laos, Malaysia, Singapore, Brunei Darussalam, and Indonesia, is a region of great economic, political and strategic importance, possessing immense natural and human resources.

The major is designed to provide students with a coherent introduction to the language, history, and culture of Asian societies on the western rim of the Pacific Basin. While focusing on Pacific Asia, the program also supports the study of cultures from the Indian subcontinent and other regions of Asia. Each concentration provides an interdisciplinary understanding of the major social and historical forces at work in the region, supported by appropriate language training.

Graduates of the program either continue their studies at graduate institutions or utilize their knowledge and training through employment in government, business or education relating to this increasingly important region of the world.

Program Requirements

Core Requirements (15 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 3A</td>
<td>Traditional Asian Art</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Modern and Contemporary Asian Art</td>
<td></td>
</tr>
<tr>
<td>ASIA 198</td>
<td>Modernity and Globalization in Asia</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Seminar in Recent Interpretations of Asian History</td>
<td></td>
</tr>
<tr>
<td>HIST 6</td>
<td>Asian Civilizations</td>
<td>3</td>
</tr>
<tr>
<td>HRS 70</td>
<td>Arts and Ideas of Asia: Ancient to Medieval</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Arts and Ideas of Asia: Medieval to Modern</td>
<td></td>
</tr>
<tr>
<td>GOVT 145</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MUSC 119A World Music: Asia</td>
<td></td>
</tr>
</tbody>
</table>

Concentration Requirements (12 Units)

Select four courses from one of the following concentrations: 12

Japanese Studies Concentration
Chinese Studies Concentration
South and Southeast Asian Concentration
Electives (9 Units)

Select 9 units from three different groupings:

Group 1: Japan
- ANTH 134 Japanese Culture and Society
- HIST 146A Cultural History of Japan to 1800
- HIST 146B Modern Japan, 1800-present
- HIST 146C The History of Manga
- HRS 174 Modern Japanese Literature and Culture
- JAPN 120 Japanese Civilization

Group 2: China
- ANTH 148 Anthropology of Chinese Societies
- CHIN 120 Chinese Civilization
- HIST 148A China: Antiquity to 1600 AD
- HIST 148B China, 1600 to Present
- HRS 172 The Classical Culture of China
- HRS 173 Chinese Philosophy and Religion
- PHIL 145A Chinese Philosophy

Group 3: Korea
- ASIA 134 History of Modern Korea
- ASIA 135 Contemporary Korean Culture
- ASIA 136 Korean Development and Behavior
- ART 117C Art of Korea
- EDUC 128 Education and Communication in Korean Society

Group 4: South and South-East Asia
- ANTH 147 Peoples of Southeast Asia
- ANTH 149 Cultures of South Asia
- ART 117A Art of India and Southeast Asia
- ASIA 151 Genocide in Southeast Asia
- GEOG 125 Geography Of East Asia
- HIST 144 Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder
- HIST 145 South Asian History & Civilization
- HIST 149 The Making of Modern Southeast Asia
- HRS 178 Religions of India
- PHIL 145B Philosophies Of India

Group 5: Asian-American
- ENGL 180M Asian American Literature
- ETHN 110 The Asian American Experience
- ETHN 111 Southeast Asians in the US
- ETHN 112 Contemporary Asian American Issues
- ETHN 113 Asian American Communities
- ETHN 114 Asian Americans and Globalization
- ETHN 116 Asian American Politics and Public Policy
- ETHN/WOMS 118 Asian American Women
- ETHN 119 The Filipino American Experience
- ETHN 121 Hmong American Experiences
- ETHN 122 Sikh Americans and Globalization
- ETHN 167 Asian American Families: Issues and Perspectives

Group 6: Pan-Asia
- ASIA 110 Anthropology of Contemporary Asia
- ART 113B Asian Art and Mythology
- ART 115 Topics in Asian Art
- ART 117B Art of China and Japan
- ASIA/HIST 140 Modern East Asian Cinema
- GEOG 125 Geography Of East Asia
- HIST/HRS 147 History of Buddhism
- HRS 171 Introduction to the East Asian World
- HRS 175 Zen Buddhism and Daoism
- HRS 176 The Confucian Tradition
- WOMS 121

Group 7: Advanced Language
- CHIN 110 Advanced Mandarin: Modern Chinese Fiction
- JAPN 110 Introduction to Japanese Literature
- JAPN 116A Third Year Japanese 1 - Language and Culture of Japan
- JAPN 116B Third Year Japanese 2 - Language and Culture of Japan
- JAPN 150 Advanced Japanese Grammar, Conversation

Group 8: Fieldwork-Internships

Select one of the following:
- ASIA 195 Internship: Asian Studies
- Approved Internships or Fieldwork in other departments

Language Proficiency Requirement

Select from the following courses to fulfill the proficiency requirements:
- CHIN 1A Elementary Mandarin
- CHIN 1B Elementary Mandarin
- CHIN 2A Intermediate Mandarin
- CHIN 2B Intermediate Mandarin
- KORN 1A Elementary Korean 1A
- KORN 1B Elementary Korean 1B
- KORN 2A Intermediate Korean 2A
- KORN 2B Intermediate Korean 2B
- JAPN 1A Elementary Japanese
- JAPN 1B Elementary Japanese
- JAPN 2A Intermediate Japanese
- JAPN 2B Intermediate Japanese
- PUNJ 1A Elementary Punjabi
- PUNJ 1B Elementary Punjabi

Total Units 36

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 Students must take 9 units of electives from three different groupings. Students are not permitted to take an elective from their area of concentration. In other words, Japanese Studies Concentration Majors cannot take courses from group 1, Chinese Studies Concentration Majors cannot take courses from group 2, and Southeast Asia Concentration Majors cannot take courses from group 3.
Concentration in Japanese Studies (12 units)

Select four of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 134</td>
<td>Japanese Culture and Society</td>
<td>12</td>
</tr>
<tr>
<td>HIST 146A</td>
<td>Cultural History of Japan to 1800</td>
<td></td>
</tr>
<tr>
<td>HIST 146B</td>
<td>Modern Japan, 1800-present</td>
<td></td>
</tr>
<tr>
<td>HIST 146C</td>
<td>The History of Manga</td>
<td></td>
</tr>
<tr>
<td>HRS 174</td>
<td>Modern Japanese Literature and Culture</td>
<td></td>
</tr>
<tr>
<td>JAPN 120</td>
<td>Japanese Civilization</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 12

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
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<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (13 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
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<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area C: Arts and Humanities (3 Units)</td>
<td></td>
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</tr>
<tr>
<td>C1</td>
<td>Arts 2</td>
<td>0</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities 2</td>
<td>0</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course 2</td>
<td>0</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
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<tr>
<td>Area D: The Individual and Society (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D1</td>
<td>D Course</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>D Course</td>
<td>3</td>
</tr>
<tr>
<td>D3</td>
<td>D Course</td>
<td>3</td>
</tr>
<tr>
<td>D4</td>
<td>D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
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<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
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<tr>
<td>E1</td>
<td>E Course</td>
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</table>

Total Units 40

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
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</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
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<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td>3</td>
<td></td>
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<tr>
<td>Graduation Requirements (required by Sacramento State) (6 Units)</td>
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<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
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<tr>
<td>Foreign Language Proficiency Requirement 2,3</td>
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<td></td>
</tr>
</tbody>
</table>

BA in Asian Studies (Korean Studies)

Units required for Major: 36

Total units required for BA: 120

Program Description

Pacific Asia, including the nation states on the Asian shores of the Pacific Rim, the Koreas, Japan, China, Taiwan, the Philippines, Vietnam, Cambodia, Thailand, Myanmar, Laos, Malaysia, Singapore, Brunei Darussalam, and Indonesia, is a region of great economic, political and strategic importance, possessing immense natural and human resources.

The major is designed to provide students with a coherent introduction to the language, history, and culture of Asian societies on the western rim of the Pacific Basin. While focusing on Pacific Asia, the program also supports the study of cultures from the Indian subcontinent and...
other regions of Asia. Each concentration provides an interdisciplinary understanding of the major social and historical forces at work in the region, supported by appropriate language training.

Graduates of the program either continue their studies at graduate institutions or utilize their knowledge and training through employment in government, business or education relating to this increasingly important region of the world.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Requirements (15 Units)</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| ART 3A | Traditional Asian Art  
  or ART 3B Modern and Contemporary Asian Art                        | 3     |
| ASIA 198| Modernity and Globalization in Asia                              | 3     |
|         or HIST 192C Seminar in Recent Interpretations of Asian History   |       |
| HIST 6 | Asian Civilizations  
  or HRS 70 Arts and Ideas of Asia: Ancient to Medieval  
  or HRS 71 Arts and Ideas of Asia: Medieval to Modern          | 3     |
| GOVT 145|                                                                 | 3     |
|         or MUSC 119A World Music: Asia                               |       |
| **Concentration Requirements (12 Units)**                                                                         |       |
| Select four courses from one of the following concentrations:                                                      | 12    |
| Japanese Studies Concentration                                                                                      |       |
| Chinese Studies Concentration                                                                                       |       |
| South and Southeast Asian Concentration                                                                            |       |
| Korean Studies Concentration                                                                                        |       |
| **Electives (9 Units)**                                                                                            |       |
| Select 9 units from three different groupings: 2                                                                 | 9     |
| **Group 1: Japan**                                                                                                 |       |
| ANTH 134| Japanese Culture and Society                                       |       |
| HIST 146A| Cultural History of Japan to 1800                                 |       |
| HIST 146B| Modern Japan, 1800-present                                        |       |
| HIST 146C| The History of Manga                                              |       |
| HRS 174 | Modern Japanese Literature and Culture                            |       |
| JAPN 120| Japanese Civilization                                             |       |
| **Group 2: China**                                                                                                 |       |
| ANTH 148| Anthropology of Chinese Societies                                 |       |
| CHIN 120| Chinese Civilization                                               |       |
| CHIN 150| Survey of Chinese Literature                                      |       |
| HIST 148A| China: Antiquity to 1600 AD                                       |       |
| HIST 148B| China, 1600 to Present                                            |       |
| HRS 172 | The Classical Culture of China                                    |       |
| HRS 173 | Chinese Philosophy and Religion                                   |       |
| PHIL 145A| Chinese Philosophy                                                |       |
| **Group 3: Korea**                                                                                                  |       |
| ASIA 134| History of Modern Korea                                           |       |
| ASIA 135| Contemporary Korean Culture                                       |       |
| ASIA 136| Korean Development and Behavior                                   |       |
| ART 117C| Art of Korea                                                      |       |
| EDUC 128| Education and Communication in Korean Society                    |       |
| **Group 4: South and South-East Asia**                                                                             |       |
| ANTH 147| Peoples of Southeast Asia                                         |       |
| ANTH 149| Cultures of South Asia                                            |       |
| ART 117A| Art of India and Southeast Asia                                   |       |
| ASIA 151| Genocide in Southeast Asia                                        |       |
| GEOG 125| Geography Of East Asia                                            |       |
| HIST 144| Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder |       |
| HIST 145| South Asian History & Civilization                                |       |
| HIST 149| The Making of Modern Southeast Asia                               |       |
| HIST/HRS 147| History of Buddhism                                           |       |
| HRS 178 | Religions of India                                                |       |
| PHIL 145B| Philosophies Of India                                            |       |
| **Group 5: Asian-American**                                                                                       |       |
| ENGL 180M| Asian American Literature                                         |       |
| ETHN 110| The Asian American Experience                                     |       |
| ETHN 111| Southeast Asians in the US                                        |       |
| ETHN 112| Contemporary Asian American Issues                                |       |
| ETHN 113| Asian American Communities                                        |       |
| ETHN 114| Asian Americans and Globalization                                 |       |
| ETHN 116| Asian American Politics and Public Policy                        |       |
| ETHN/WOMS 118| Asian American Women   |       |
| ETHN 119| The Filipino American Experience                                  |       |
| ETHN 121| Hmong American Experiences                                       |       |
| ETHN 122| Sikh Americans and Globalization                                  |       |
| ETHN 167| Asian American Families: Issues and Perspectives                 |       |
| **Group 6: Pan-Asia**                                                                                                |       |
| ASIA 110| Anthropology of Contemporary Asia                                 |       |
| ART 113B| Asian Art and Mythology                                           |       |
| ART 115 | Topics in Asian Art                                               |       |
| ART 117B| Art of China and Japan                                            |       |
| ASIA/HIST 140| Modern East Asian Cinema |       |
| GEOG 125| Geography Of East Asia                                            |       |
| HIST/HRS 147| History of Buddhism                                           |       |
| HRS 171 | Introduction to the East Asian World                              |       |
| HRS 175 | Zen Buddhism and Daoism                                           |       |
| HRS 176 | The Confucian Tradition                                          |       |
| WOMS 121|                                                               |       |
| **Group 7: Advanced Language**                                                                                     |       |
| CHIN 110| Advanced Mandarin: Modern Chinese Fiction                        |       |
| JAPN 110| Introduction to Japanese Literature                              |       |
| JAPN 116A| Third Year Japanese 1 - Language and Culture of Japan             |       |
| JAPN 116B| Third Year Japanese 2 - Language and Culture of Japan             |       |
| JAPN 150| Advanced Japanese Grammar, Conversation                          |       |
| **Group 8: Fieldwork-Internships**                                                                                 |       |
| Select one of the following:                                                                                      |       |
| ASIA 195 | Internship: Asian Studies                                       |       |
| Approved Internships or Fieldwork in other departments                                                           |       |
| **Language Proficiency Requirement**                                                                               |       |
| Select from the following courses to fulfill the proficiency requirements: 1,3                                      |       |
| CHIN 1A | Elementary Mandarin                                             |       |
### General Education Requirements

1. **Area A: Basic Subjects (9 Units)**
   - A1 - Oral Communication: 3 units
   - A2 - Written Communication: 3 units
   - A3 - Critical Thinking: 3 units

2. **Area B: Physical Universe and Its Life Forms (10 Units)**
   - B1 - Physical Science: 3 units
   - B2 - Life Forms: 3 units
   - B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5): 1 unit
   - B4 - Math Concepts: 3 units
   - B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. 0 units

3. **Area C: Arts and Humanities (3 Units)**
   - C1 - Arts: 2 units
   - C2 - Humanities: 2 units
   - C1/C2 - Area C Course: Required in Major; also satisfies GE.

4. **Area D: The Individual and Society (9 Units)**
   - D1 - Area D Course - Take upper-division course to complete Area & upper division requirements.

5. **Area E: Understanding Personal Development (3 Units)**
   - E1 - Area E Course

6. **Area F: Ethnic Studies (3 Units)**
   - F1 - Area F Course

### Concentration in Korean Studies (12 units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 1B</td>
<td>Elementary Mandarin</td>
<td></td>
</tr>
<tr>
<td>CHIN 2A</td>
<td>Intermediate Mandarin</td>
<td></td>
</tr>
<tr>
<td>CHIN 2B</td>
<td>Intermediate Mandarin</td>
<td></td>
</tr>
<tr>
<td>KORN 1A</td>
<td>Elementary Korean 1A</td>
<td></td>
</tr>
<tr>
<td>KORN 1B</td>
<td>Elementary Korean 1B</td>
<td></td>
</tr>
<tr>
<td>KORN 2A</td>
<td>Intermediate Korean 2A</td>
<td></td>
</tr>
<tr>
<td>KORN 2B</td>
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<tr>
<td>JAPN 1A</td>
<td>Elementary Japanese</td>
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<tr>
<td>JAPN 1B</td>
<td>Elementary Japanese</td>
<td></td>
</tr>
<tr>
<td>JAPN 2A</td>
<td>Intermediate Japanese</td>
<td></td>
</tr>
<tr>
<td>JAPN 2B</td>
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<td>Elementary Punjabi</td>
<td></td>
</tr>
<tr>
<td>PUNJ 1B</td>
<td>Elementary Punjabi</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**: 36

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Students must take 9 units of electives from three different groupings. Students are not permitted to take an elective from their area of concentration. In other words, Japanese Studies Concentration Majors cannot take courses from group 1, Chinese Studies Concentration Majors cannot take courses from group 2, and Southeast Asia Concentration Majors cannot take courses from group 3.
3. Students must demonstrate proficiency at a level equivalent to four semesters of an Asian language appropriate to their concentration by coursework or a language proficiency examination provided by the Department of Foreign Languages. Students concentrating in South or Southeast Asia can demonstrate proficiency in any South or Southeast Asian Language.

### Graduation Requirements

1. **Graduation Requirements (required by CSU) (9 Units)**
   - American Institutions: U.S. History: 3 units
   - American Institutions: U.S. Constitution & CA Government: 3 units
   - Writing Intensive (WI): 3 units

2. **Graduation Requirements (required by Sacramento State) (6 Units)**
   - English Composition II: 3 units
   - Race and Ethnicity in American Society (RE): 3 units
   - Foreign Language Proficiency Requirement: 2 units

**Total Units**: 34

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies GE.

3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required:" The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Minor in Asian Studies

Units required for Minor: 18, twelve of which must be in upper division

Program Description
The minor offers students a foundation to understand the dynamic changes across the region of East, South, and Southeast Asia through required pan-Asia courses that compare and analyze the region in comparative perspective. Students will develop a framework to explore Asia from an interdisciplinary perspective, and may choose to focus their interests through elective offerings.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASIA 1</td>
<td>Asia in the World Today</td>
<td>3</td>
</tr>
<tr>
<td>ASIA 111</td>
<td>Asian Diaspora and Migration</td>
<td>3</td>
</tr>
</tbody>
</table>

Foundational Core (3 Units)
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 3A</td>
<td>Traditional Asian Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 3B</td>
<td>Modern and Contemporary Asian Art</td>
<td></td>
</tr>
<tr>
<td>HIST 6</td>
<td>Asian Civilizations</td>
<td></td>
</tr>
<tr>
<td>HRS 70</td>
<td>Arts and Ideas of Asia: Ancient to Medieval</td>
<td></td>
</tr>
<tr>
<td>HRS 71</td>
<td>Arts and Ideas of Asia: Medieval to Modern</td>
<td></td>
</tr>
</tbody>
</table>

Culminating Core (3 Units)
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASIA 110</td>
<td>Anthropology of Contemporary Asia</td>
<td>3</td>
</tr>
<tr>
<td>ASIA 198</td>
<td>Modernity and Globalization in Asia</td>
<td></td>
</tr>
<tr>
<td>HIST 192C</td>
<td>Seminar in Recent Interpretations of Asian History</td>
<td></td>
</tr>
<tr>
<td>POLS 145</td>
<td>Asian Politics</td>
<td></td>
</tr>
</tbody>
</table>

Electives (6 Units)
Choose 6 units from two different groupings listed under the major (upper division only)

Language Proficiency
Language proficiency is not required for the minor; however, students are highly encouraged to study an Asian language.

Total Units 18-24

Minor in Korean Studies

Units required for Minor: 18, twelve of which must be in upper division

Program Description
The minor offers students a framework to explore Korea from an interdisciplinary perspective, examining its art, culture, history, philosophy, and politics. Students will be introduced to the broader region through two pan-Asia courses before selecting Korea-specific electives to fit their own interest. Study of the Korean language is highly encouraged.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ASIA 1</td>
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<td>3</td>
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<td>ASIA 111</td>
<td>Asian Diaspora and Migration (3 units)</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (12-18 Units)
Select four courses from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 117C</td>
<td>Art of Korea</td>
<td></td>
</tr>
<tr>
<td>ASIA 134</td>
<td>History of Modern Korea</td>
<td></td>
</tr>
<tr>
<td>ASIA 135</td>
<td>Contemporary Korean Culture</td>
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<tr>
<td>ASIA 136</td>
<td>Korean Development and Behavior</td>
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</tr>
<tr>
<td>EDUC 128</td>
<td>Education and Communication in Korean Society</td>
<td></td>
</tr>
<tr>
<td>KINS 43</td>
<td>Beginning Tae Kwon Do</td>
<td></td>
</tr>
<tr>
<td>KINS 118B</td>
<td>Martial Arts: Tae Kwon Do</td>
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</tr>
<tr>
<td>KORN 1A</td>
<td>Elementary Korean 1A</td>
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</tr>
<tr>
<td>KORN 1B</td>
<td>Elementary Korean 1B</td>
<td></td>
</tr>
<tr>
<td>KORN 2A</td>
<td>Intermediate Korean 2A</td>
<td></td>
</tr>
<tr>
<td>KORN 2B</td>
<td>Intermediate Korean 2B</td>
<td></td>
</tr>
</tbody>
</table>

Language Proficiency
Language proficiency is not required for the minor; however, students are highly encouraged to study an Asian language.

Total Units 18-24

Minor in South and Southeast Asian Studies

Units required for Minor: 18, twelve of which must be in upper division

Program Description
The minor offers students a framework to explore South and Southeast Asia from an interdisciplinary perspective, examining the religion, culture, and history of peoples and countries in the region such as Afghanistan, India, and Pakistan, and further east to Cambodia, Indonesia, Laos, the Philippines, Singapore, Thailand, Vietnam and others. Students will be introduced to the broader region through two pan-Asia courses before selecting area studies electives to fit their own interest.

Program Requirements

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</tbody>
</table>

Electives (6 Units)
Select 12 units of electives from the following:

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<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>ANTH 147</td>
<td>Peoples of Southeast Asia</td>
<td></td>
</tr>
<tr>
<td>ANTH 149</td>
<td>Cultures of South Asia</td>
<td></td>
</tr>
<tr>
<td>ART 117A</td>
<td>Art of India and Southeast Asia</td>
<td></td>
</tr>
<tr>
<td>ASIA 151</td>
<td>Genocide in Southeast Asia</td>
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<tr>
<td>HIST 144</td>
<td>Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder</td>
<td></td>
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<tr>
<td>HIST 145</td>
<td>South Asian History &amp; Civilization</td>
<td></td>
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<tr>
<td>HIST/HRS 147</td>
<td>History of Buddhism</td>
<td></td>
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<tr>
<td>HIST 149</td>
<td>The Making of Modern Southeast Asia</td>
<td></td>
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<tr>
<td>HRS 178</td>
<td>Religions of India</td>
<td></td>
</tr>
<tr>
<td>HRS 178A</td>
<td>Religions of India I: The Formative Period</td>
<td></td>
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<tr>
<td>HRS 178B</td>
<td>India’s Religions: Jains &amp; Sikhs</td>
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<tr>
<td>HRS 179A</td>
<td>The Hindu Year: Fall</td>
<td></td>
</tr>
</tbody>
</table>

Total Units

Minor in South and Southeast Asian Studies

Units required for Minor: 18, twelve of which must be in upper division

Program Description
The minor offers students a framework to explore South and Southeast Asia from an interdisciplinary perspective, examining the religion, culture, and history of peoples and countries in the region such as Afghanistan, India, and Pakistan, and further east to Cambodia, Indonesia, Laos, the Philippines, Singapore, Thailand, Vietnam and others. Students will be introduced to the broader region through two pan-Asia courses before selecting area studies electives to fit their own interest.

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Electives (6 Units)
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Language Proficiency
Language proficiency is not required for the minor; however, students are highly encouraged to study an Asian language.

Total Units 18-24
California Studies

Department of Public Policy Administration

Program Description
California Studies is an interdisciplinary program designed to provide an understanding of California’s institutions, culture, and environment in a manner that will be occupationally and academically useful to students in a variety of majors. With the state’s central role as a gateway to the Pacific basin, substantial knowledge of California will be necessary for those preparing to engage in commerce and international trade. In addition, for students who are planning careers in the public sector, the California Studies minor will furnish background applicable to their future employment.

Degree Program
Minor in California Studies (p. 953)

Contact Information
Brendan Lindsay, Program Coordinator
Tahoe Hall 3061
(916) 278-6914
brendan.lindsay@csus.edu

Minor in California Studies

Units required for Minor: 21

Program Description
California Studies is an interdisciplinary program designed to provide an understanding of California’s institutions, culture, and environment in a manner that will be occupationally and academically useful to students in a variety of majors.

Note: It is highly recommended that students consider an internship in a California setting offered by one of the participating departments.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 114</td>
<td>The California Economy</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 131</td>
<td>California</td>
<td>3</td>
</tr>
<tr>
<td>POLS 180</td>
<td>California State and Local Government</td>
<td>3</td>
</tr>
<tr>
<td>HIST 183B</td>
<td>California History, 1860-1970</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following: 1</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>ANTH 123</td>
<td>Ancient Technology</td>
<td></td>
</tr>
<tr>
<td>ANTH 128</td>
<td>Indians of California</td>
<td></td>
</tr>
<tr>
<td>ECON 132</td>
<td>State and Local Government Finance</td>
<td></td>
</tr>
</tbody>
</table>

Economics

College of Social Sciences and Interdisciplinary Studies

Program Description
Economics is a social science that examines the functioning of markets, the determination of prices and distribution of income, and the determination of the overall level of income and rates of unemployment and inflation. In addition, Economics deals with various social problems. The Economics major at Sacramento State is designed to provide students with a liberal education with special emphasis on the economic aspects of society, on familiarization with techniques for the analysis of contemporary economic problems, developing the ability to think critically, and to conceptualize and to possess the communication and computer skills to evaluate private and public policy issues.

The Economics program is appealing to students due to the quality of its faculty, the breadth of its course offerings, and the amount of choice it offers the student in planning his or her coursework. In addition to training in the traditional economics areas, the program offers such diverse courses as the California economy, state and local finance, energy, environmental and resource economics, and urban economics. Students find the Department of Economics congenial to their educational and career objectives.

A minor in Economics may be especially attractive to students majoring in Business Administration, Government, and Environmental Studies or in one of the other Social Science disciplines. The Economics minor adds both theoretical and analytical depth. In addition, it provides the historical and institutional background important to an understanding of contemporary economic issues. It offers students in other majors a broader-based undergraduate education while widening the choice of job possibilities. Employers view the minor in Economics favorably.

Degree Programs
BA in Economics (p. 959)
Minor in Economics (p. 962)
Certificate in Economics Education (p. 961)
MA in Economics (p. 961)

Special Features
- Students in the Sacramento State Economics program benefit from a wide range of opportunities to work in the private and public sectors. The Economics Department offers internships for academic credit to students who are interested in the application of economics in the private and public sectors. This kind of practical experience enhances employment opportunities after graduation.
Former Sacramento State Economics students are working at all levels of government and in many private businesses in the fields of finance, real estate, professional services, etc. Some are in the teaching profession, K-12 and community colleges, while others have continued their studies toward a Masters degree or a Ph.D. at such institutions as Notre Dame, Washington University at St. Louis, the University of Pittsburgh, University of California, Santa Cruz, Johns Hopkins University, and University of California, Davis.

The Sacramento State Economics faculty is diverse in areas of specialization and draws upon both its advanced academic training and practical experience. Faculty members have published articles, papers, and books, and enjoy reputations as experts in their fields. Besides providing a reputable and experienced faculty, the Economics Department offers personal advising for students in the planning and meeting of academic and career goals.

Pre-Major Requirements
Freshman or transfer students interested in the Economics Major are admitted as Pre-Major Economics students.

To change to an Economics major, all students are required to complete the following grade and course requirements and submit a Declaration of Major form to the Economics Department along with transcript copies:

1. An overall GPA of 2.0 and be in good academic standing.
2. Completion of the Pre-Major Required Courses with a "C" or better in each course. Only first or second attempts will be considered.

Career Possibilities
Actuary · Advertising Executive · Auditor · Bank Officer · Bond Trader · Budget Analyst · Business Forecaster · Business Manager · College Professor · Commodity Price Forecaster · Cost Analyst · Credit Analyst/Loan Officer · Demographer · Economic Forecaster · Energy Economist · Entrepreneur · Estate Planner · Financial Analyst/Planner · Financial Officer · Government Administrator · Healthcare Administrator · Human Resources Administrator · Industrial/Institutional Buyer · Industry Analyst · Information Scientist · Insurance Salesperson · Intelligence Agent · International Trade Specialist · Journalist · Labor Relations Specialist · Lawyer · Litigation Analyst · Management Consultant/Analyst · Market Researcher · Analyst · Natural Resource Economist · Policy Analyst · Politician · Public Utilities Manager · Real Estate Agent/Broker · Sales Manager · Securities Salesperson/Broker · Statistician · Teacher · Technical Writer Transportation Specialist · Underwriter · Urban/Regional Planner

Contact Information
David Lang, Department Chair
Sharon Jordan, Administrative Support Coordinator
Tahoe Hall 3028
(916) 278-6223
www.csus.edu/econ (http://www.csus.edu/econ/)

Faculty
BURGHART, DANIEL
CHALMERS, KATHERINE
DUBE, SMILE
FORD, TIMOTHY

GABRIEL, HANNAH
GALLEY, CRAIG
KAPLAN, JONATHAN
LANG, DAVID
LI, HERMAN
O’KEEFE, SUZANNE
SIEGLER, MARK
TADLE, RAUL
VAN GAASBECK, KRISTIN
WANG, TA-CHEN
ZHOI, YAN

ECON 1A. Introduction to Macroeconomic Analysis. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Introductory inquiry into the workings and interrelationships of the aggregate economic system. The primary focus is on total production and its distribution, employment and price levels, and the forces influencing them. Other considerations are the roles of government, the monetary sector, and related areas.

ECON 1B. Introduction to Microeconomic Analysis. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Introductory microeconomic analysis of the workings of supply and demand in the determination of price, resource allocation, and distribution. Markets are analyzed as they affect economic efficiency and income distribution.

ECON 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
Introduction to higher education for an economics major or student interested in social sciences, to the resources of the University, and to the skills for lifelong learning. Designed to help students develop academic success strategies, time management, and to improve information literacy, intercultural competence, and integrative thinking. Special attention to how economists view the world and an understanding of current events and social issues. Provides students with the opportunity to interact with peers and faculty, building a community of support.

ECON 100A. Intermediate Macroeconomic Theory. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring
Analysis of the determinants of the aggregate level of output, income, employment and prices.
ECON 108. Intermediate Microeconomic Theory. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Analysis of household and firm behavior as the foundation of supply and demand.

ECON 101. History of Economic Thought. 3 Units
Prerequisite(s): ECON 1A, ECON 1B.
Term Typically Offered: Fall, Spring

Analysis of the development of economic theory from the predecessors of Adam Smith through John Maynard Keynes. The contributions made to the discipline by its principal figures are compared and evaluated.

ECON 104. Introduction to the United States Economy. 3 Units
Term Typically Offered: Fall, Spring

One semester survey of the principles of economics, basic methods of economic analysis, and their application to public policy and current events.

Note: Not open to students who have had ECON 1A or ECON 1B or those majoring in economics.

ECON 110. Cost Benefit Analysis. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Examines the rationale for government provision of goods and services and presents cost-benefit analysis as a method to evaluate public participation in a market economy.

ECON 112. European Economic History. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Analysis and evaluation of the economic forces and institutions shaping European economic development through the present period. Attention will be paid to the relationship between changes in the economic environment and attendant cultural, political, and ideological developments in the stages of tribalism, slavery, feudalism, capitalism, and socialism.

ECON 113. Economic History of the United States. 3 Units
Prerequisite(s): ECON 1A or ECON 104.
Term Typically Offered: Fall, Spring

Consideration of the economic growth and development of the U.S. with emphasis on a theoretical analysis of the economic factors shaping the national destiny.

ECON 114. The California Economy. 3 Units
Prerequisite(s): ECON 1A and ECON 1B, or ECON 104.
Term Typically Offered: Fall only

Examination of the process of the development of the State's economy as well as analysis of the various public economic issues that are of contemporary concern to Californians.

ECON 120. Economics and Environmental Degradation. 3 Units
Term Typically Offered: Fall, Spring

Analyzes environmental issues as economic issues. Economics as both a cause and cure for environmental destruction.

ECON 123. Resource Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Analyzes the economic based problem of exhaustion in both renewable and non-renewable resources. Emphasis is given to the optimal use of these resources over time and the effects that various market and non-market factors have on their future availability.

ECON 130. Public Finance. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade; ECON 100B recommended.
Term Typically Offered: Fall, Spring

Economic analysis of the public sector and its impact on the allocation of resources and the distribution of income. Emphasis given to the economics of government expenditure and taxation.

ECON 132. State and Local Government Finance. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall only

Analysis of the economics of state and local government finance, with an emphasis on California's fiscal system.

ECON 135. Money and Banking. 3 Units
Prerequisite(s): ECON 1A and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Examines the role of financial markets, the banking system, and the Federal Reserve System in the economy. Included are an introduction to present value and the behavior of interest rates, analysis of money creation, and evaluation of monetary policy.

ECON 138. Monetary and Fiscal Policy. 3 Units
Prerequisite(s): ECON 100A and ECON 140 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Analyzes the policies of central banks and fiscal authorities as they relate to the stability and growth of the macroeconomy. Examines the theoretical and empirical literature regarding the conduct of monetary and fiscal policy and applies the tools of economic analysis to understand macroeconomic policy debates.

ECON 140. Quantitative Economic Analysis. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, STAT 1, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Examination of the basics of conducting quantitative economic analysis. Included are basic concepts and methods of data analysis and research. Students will examine economic data using spreadsheets, will develop presentation skills, and be introduced to career opportunities.

ECON 141. Introduction to Econometrics. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, ECON 140, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade; ECON 100A or ECON 100B recommended.
Term Typically Offered: Fall, Spring

Covers the basics of regression analysis, estimation, and forecasting.
### ECON 145. Economic Research Methods. 3 Units  
**Prerequisite(s):** ECON 100A, ECON 100B, ECON 140 with a minimum "C" grade; GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.  
**Term Typically Offered:** Fall, Spring

Covers the basics of conducting applied economic research: the selection of topic, literature survey, choice of research method, formulation of hypothesis, testing of hypothesis using empirical analysis, and summary and conclusions. Designed to enhance the students ability to integrate economic theory, quantitative research skills, and research.

### ECON 150. Labor Economics. 3 Units  
**Prerequisite(s):** ECON 1B, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.  
**Term Typically Offered:** Fall only

Economic analysis of labor markets, with special reference to employment, wage determination, and the role of government.

### ECON 152. Economics of Education. 3 Units  
**Prerequisite(s):** ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.  
**Term Typically Offered:** Fall only

Introduction to the various aspects of the economics of education. Applies the tools of economic analysis to education policy and problem solving. Topics include cost-benefit analysis of education, the signaling vs. human capital debate, race and gender issues in education, education production functions, and financing education at the elementary, secondary, and post-secondary levels. Emphasis placed on individual and social choice in education.

### ECON 153. Health Economics. 3 Units  
**Prerequisite(s):** ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.  
**Term Typically Offered:** Fall only

Introduction to the field of health economics. Applies the tools of economics to the production of health and health care. Special emphasis on health care institutions, the role of industry, health care reform, and the role of government, in addition to the public provision of care to the disadvantaged.

### ECON 160. Industrial Organization. 3 Units  
**Prerequisite(s):** ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.  
**Term Typically Offered:** Spring only

Analyzes firm decision-making in a variety of market settings. Topics include pricing and output decisions, entry and exit issues, marketing strategies, horizontal mergers, vertical integration, technological change, and U.S. antitrust policy.

### ECON 161. Fundamentals of Game Theory. 3 Units  
**Prerequisite(s):** ECON 1B, STAT 1, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.  
**Term Typically Offered:** Spring only

An analysis of strategic games with sequential or simultaneous moves under complete information and uncertainty. Discussion of theory and techniques is combined with examination of specific classes of games and their application to real-world examples such as markets, voting, auctions, and international relations.

### ECON 162. Energy Economics. 3 Units  
**Prerequisite(s):** ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.  
**Term Typically Offered:** Fall, Spring

Analyzes the structure, conduct, and consequences of domestic and international energy markets. Particular emphasis on regulated industries including petroleum, electrical, and other power sources. The economic impact on energy markets of emerging technology is examined.

### ECON 163. Behavioral and Experimental Economics. 3 Units  
**Prerequisite(s):** ECON 100B  
**Term Typically Offered:** Fall only

Introduction to the fields of behavioral and experimental economics. Applies tools of microeconomic theory to the decisions made by individuals. Special emphasis on the utility maximization hypothesis, decision making in the face of risk and uncertainty, intertemporal choice, other regarding preferences, game theory, and neuroeconomics.

### ECON 170. Public Economics and Regulation. 3 Units  
**Prerequisite(s):** ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.  
**Term Typically Offered:** Spring only

Examination of government regulation of industry in the North American context: transportation, communication, energy, and other industries. Issues include deregulation, public ownership, pricing, and investment.

### ECON 180. Urban Economics. 3 Units  
**Prerequisite(s):** ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.  
**Term Typically Offered:** Spring only

Economic analysis and appraisal of models of urban development. Includes consideration of the rise of cities, land use, unemployment, poverty, housing, urban renewal, transportation, and the local public sector.

### ECON 181. Economics of Racism. 3 Units  
**General Education Area/Graduation Requirement:** Race & Ethnicity  
**Graduation Requirement (RE), GE AREA D**  
**Term Typically Offered:** Spring only

Economic analysis of the origins and development of racism, focusing mainly on its impact in the U.S. Differing theoretical explanations surrounding racism will be compared and evaluated.

### ECON 184. Women and the Economy. 3 Units  
**Term Typically Offered:** Fall only

Investigation of the current economic status of women in the U.S., of past and present economic discrimination experienced by women in the labor market, of the historical reasons for that discrimination and of the means and methods of ending that discrimination.
ECON 186. Sports Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring
Applies the essential economic concepts and develops them with examples and applications from the sports industry. Covers basic economic concepts: economic principles, supply and demand, perfect competition, and monopoly behavior. It also applies these concepts to a variety of topics: the public finance of sports franchises, the costs/benefits of a sports franchise to a city, labor markets and labor relations, discrimination, and amateurism and college sports.

ECON 189. Economics at the Movies. 3 Units
Term Typically Offered: Fall only
Analysis of the use and treatment of economic theory and history in popular American films. Emphasis is placed on the topics of game theory, industrial organization, entrepreneurship, law and economics, labor economics, the stock market, and American economic history. The entertainment industry will also be examined from an economic perspective.

ECON 190. International Trade. 3 Units
Prerequisite(s): ECON 1A, ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring
Analysis of the causes and results of trade among nations. Introduction to modern trade theory is combined with examination of trade instruments and policy analysis.

ECON 191. International Finance. 3 Units
Prerequisite(s): ECON 1A, ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring
Critical examination of the theories and practices of financing trade among nations. International financial and monetary theories focus on how the world and financial system works, given globalization and international economic integration.

ECON 192. Development Economics. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring
An analysis of the factors involved in the growth of economies. The focus is on the application of development economics and growth theory to the process of economic growth in developing countries. Particular attention is given to variables that explain growth, namely, technological progress, population growth, saving, trade, human capital and education, and the role of institutions.

ECON 195. Economic Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised economic-related work experience, research, or teaching assistance to provide an opportunity for the student to apply principles and theories learned in the classroom to the "real world."
Credit/No Credit

ECON 196P. Economics of Personal Finance. 3 Units
Prerequisite(s): ECON 1A or ECON 1B
Term Typically Offered: Fall, Spring
Applies economic tools and models to evaluate personal financial decisions including investment in higher education, housing, retirement accounts, and traditional and emerging financial markets with a focus on risk and return. Assessment of personal decision-making including career choice, marriage, divorce, and retirement timing to maximize utility and smooth consumption throughout the lifecycle.

ECON 196R. Economic Programming and Data Analysis. 3 Units
Prerequisite(s): Econ 1A, Econ 1B, and Econ 140
Term Typically Offered: Fall, Spring
Inquiry into the basic principles of data analysis and computer programming. The primary focus is on data management and the associated visual optimization and statistical inference in economics using programming languages, such as R and Python. More advanced topics include the use of cross validation, algorithms, and theoretical modeling for data analysis and problem-solving.

ECON 196S. Economics of Financial Markets. 3 Units
Prerequisite(s): STAT 1, ECON 1A, ECON 100B
Term Typically Offered: Fall, Spring
Study and critical analysis of economic theories of financial markets to include rational expectations, the efficient markets hypothesis, roles of time, uncertainty and information in economic transactions, risk aversion in the context of utility maximization and portfolio choice theory, the Capital Asset Pricing Model and multi-factor asset pricing models, an introduction to behavioral finance, and an examination of financial instability and distributional effects of increasing financialization. Includes rigorous development of relevant theories and study of published empirical literature.

ECON 197A. Economics Exchange Mentee. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Provides opportunity for lower division students, transfer students, and newly declared majors to be mentored by more advanced upper division students or graduate students. The peer mentoring will help students meet academic deadlines, achieve academic success, become engaged in campus activities and get integrated into the Economics Department.
Note: Units may not be applied towards unit requirement of the Economics major.
Credit/No Credit

ECON 197B. Economics Exchange Mentor. 1 - 3 Units
Prerequisite(s): Upper division or graduate student standing and instructor permission.
Term Typically Offered: Fall, Spring
Provides opportunity for advanced upper division students or graduate students to mentor lower division students. The peer mentoring will help students meet academic deadlines, achieve academic success, become engaged in campus activities and be integrated into the Economics Department.
Note: Units may not be applied towards unit requirement of the Economics major; May be repeated for up to 3 units credit from ECON 197A & ECON 197B combined.
Credit/No Credit
ECON 198. Tutoring in Economics. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised tutorials at educational institutions including Sacramento State where and when appropriate arrangements can be made. Prior approval for tutoring must be obtained from the Economics Department. Emphasis is on the development of effectiveness in the teaching of economics.
Credit/No Credit

ECON 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Admission requires approval of the faculty sponsor and the Department Chair.
Credit/No Credit

ECON 200A. Advanced Macroeconomic Theory. 3 Units
Prerequisite(s): ECON 141 and ECON 200M.
Term Typically Offered: Fall, Spring
Theories of the determinants of aggregate income, employment and prices. May be taken independently of ECON 200B.

ECON 200B. Advanced Microeconomic Theory. 3 Units
Prerequisite(s): ECON 200M.
Term Typically Offered: Fall, Spring
Theories of the consumer, producer, and market structure. May be taken independently of ECON 200A.

ECON 200C. Advanced Applied Economics. 3 Units
Prerequisite(s): ECON 200A, ECON 200B, and ECON 241.
Term Typically Offered: Fall, Spring
Applies empirical analysis to topics in microeconomics and macroeconomics. Topics may include stationarity, vector autoregression, vector error correction models, calibration, fixed effects, instrumental variables, multinomial logit, and duration models. Students implement these models using econometric software. Students will write an empirical paper intended to become a prospectus for the master’s thesis.

ECON 200M. Mathematics for Economists. 3 Units
Prerequisite(s): ECON 100A, ECON 100B, MATH 26A.
Term Typically Offered: Fall, Spring
Equips students with the mathematical techniques necessary for the study of economics and econometrics at the graduate level. Covers linear algebra, derivatives, comparative static analysis, optimization, integrals, and differential equations, with specific applications from economic and econometric theory.

ECON 204. Business Economics. 3 Units
Term Typically Offered: Fall, Spring
Intensive one-semester course covering both macroeconomics and microeconomics. Emphasis is on economic analysis and policy. Designed for graduate students who have not taken ECON 1A and ECON 1B or their equivalents.

ECON 213. U.S. Economic Development in Historical Perspective. 3 Units
Prerequisite(s): Admission to MA program in Economics.
Term Typically Offered: Fall, Spring
Introduction and analysis of American economic development from a historical perspective, focusing on the trajectory of American economic development from recent advances in theoretical and empirical economics literature. Cover topics on long-term economic growth, technological change, business cycles and fluctuations, financial markets, labor markets, and economic impacts of social change.

ECON 230. Public Finance. 3 Units
Prerequisite(s): ECON 200B.
Term Typically Offered: Fall, Spring
An analysis of the allocation and distribution effects of government expenditures and taxation.

ECON 238. Monetary and Fiscal Policy. 3 Units
Prerequisite(s): ECON 200A.
Term Typically Offered: Fall, Spring
Analyzes the policies of central bank and fiscal authorities as they relate to full employment and stability of the national economy.

ECON 241. Applied Econometric Analysis. 3 Units
Prerequisite(s): ECON 141
Corequisite(s): ECON 200M
Term Typically Offered: Fall only
Applied econometric analysis emphasizes the use of econometric techniques in actual economic research settings and expressing economic theory in the form of econometric models, data collection, estimation, and interpretation of results. Students will develop an understanding of the econometric tools used to analyze empirical economic questions by working individually on a research project developed in consultation with the instructor.

ECON 251. Urban Problems, Economics and Public Policy. 3 Units
Term Typically Offered: Fall, Spring
Historical development, economics and possible policy solutions of the most pressing problems facing central cities and urban areas in the U.S. are presented. Problems discussed include poverty, crime, urban abandonment/suburban sprawl, edge cities, deteriorating infrastructures, and fiscal stress.
Cross Listed: PPA 251; only one may be counted for credit.

ECON 260. Industrial Organization and Performance. 3 Units
Prerequisite(s): Classified graduate status in Economics or instructor permission.
Term Typically Offered: Fall, Spring
A modern analysis of industry structure, conduct, and performance. Emphasis is placed on the use of game theory to address firm behavior, including price and output decisions, entry and exit, horizontal mergers, technological change, and marketing issues.
ECON 263. Food Economics. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to advanced economic theory and econometric methods applied to the economics of food with emphasis on food consumption and the complexity of individual food choices. Utilizing cost-benefit analyses and concepts like constrained utility maximization, household production, opportunity costs of time, and information search, implications for a global food system will be derived. We will apply learned concepts to health and environmental concerns by discussing the recent applied economics and policy evaluation literature.

ECON 265. Cost Benefit Analysis. 3 Units
Term Typically Offered: Fall, Spring

Examination of the theories, foundations, and philosophies of economic welfare. Specifically, the basic techniques of cost-benefit analysis will be presented and applied to various policy issues.

ECON 290. International Trade. 3 Units
Prerequisite(s): Classified graduate status in Economics or instructor permission.
Term Typically Offered: Fall, Spring

Analysis of modern trade theories, their empirical relevance, and the role of multinational firms in the evolution of international trade patterns. Discussion focuses on theoretical and empirical evaluation of trade policy instruments. Various trade agreements are also discussed in the context of economic integration and globalization. Attention is also given to foreign direct investment as a vehicle of globalization and the challenges it poses to both multinational firms and host countries.

ECON 295. Economic Internship. 1-3 Units
Term Typically Offered: Fall, Spring

Supervised work experience or research on economic topics in government, financial, business, charitable or other kinds of institutions to provide an opportunity for the student to apply principles and theories learned in the classroom to the "real world." Partial supervision may be supplied by persons in the institution under study.
Credit/No Credit

ECON 298. Tutoring In Economics. 1-3 Units
Term Typically Offered: Fall, Spring

Supervised tutorials at educational institutions including Sacramento State where and when appropriate arrangements can be made. Prior approval for tutoring must be obtained from the Economics Department. Emphasis is on the development of effectiveness in the teaching of economics.
Credit/No Credit

ECON 299. Special Problems. 1-3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Admission requires approval of the faculty sponsor and the Department Chair.
Credit/No Credit

ECON 500. Master's Thesis. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree. Should be taken in final semester prior to the completion of all requirements for the degree.

BA in Economics

Units required for Major: 42-45
Total units required for BA: 120

Program Description

The Economics program is appealing to students due to the quality of its faculty, the breadth of its course offerings, and the amount of choice it offers the student in planning his or her coursework. In addition to training in the traditional economics areas, the program offers such diverse courses as the California economy, state and local finance, energy, environmental and resource economics, and urban economics. Students find the Department of Economics congenial to their educational and career objectives.

Note: Students planning ahead for graduate work in Economics should consult an advisor regarding additional and/or focused coursework in mathematics, statistics, and computer science.

Note: The Department schedules courses so that the upper division requirements for the BA can be completed at night within two academic years. Evening students should contact the Department for assistance in planning a two-year program. Failure to do so may mean a delay in graduation due to scheduling problems.

Pre-Major Requirements

Freshman or transfer students interested in the Economics Major are admitted as Pre-Major Economics students.

To change to an Economics major, all students are required to complete the following grade and course requirements; complete a Department of Economics Change of Major form; and meet with a faculty advisor.

1. An overall GPA of 2.0 and be in good academic standing.
2. Completion of the Pre-Major Required Courses with a "C" or better in each course. Only first or second attempts will be considered.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Major Required Courses (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis 1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis 1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics 1</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Upper Division Courses (15 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 100A</td>
<td>Intermediate Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 100B</td>
<td>Intermediate Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>History of Economic Thought</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 113</td>
<td>Economic History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>ECON 140</td>
<td>Quantitative Economic Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>
ECON 145 Economic Research Methods 3

Electives (18 Units)
Select 18 units of upper division Economics courses

Total Units 45

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 Additional upper division courses in Economics, selected in consultation with a faculty advisor.

Notes:
- Minimum grade of "C" required in all courses listed above.
- ECON 145 must be completed in the student's graduating semester. The following must be completed prior to enrolling in ECON 145:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 100A</td>
<td>Intermediate Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 100B</td>
<td>Intermediate Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 140</td>
<td>Quantitative Economic Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>
- MATH 24 requirement can also be met by completing MATH 26A or MATH 30 with a grade of "C" or better.
- MATH 26A or MATH 30, or an upper division course in math or statistics, selected in consultation with an advisor, may also substitute for three of the 33 upper division units in Economics.
- ECON 104 does not meet major requirements.

No more than 3 units total of the following may be included in the 33 total required upper division units:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 195</td>
<td>Economic Internship</td>
<td>1-3</td>
</tr>
<tr>
<td>ECON 198</td>
<td>Tutoring in Economics</td>
<td>1-3</td>
</tr>
<tr>
<td>ECON 199</td>
<td>Special Problems</td>
<td>1-3</td>
</tr>
</tbody>
</table>

No more than 3 units from the following set of courses may be used to meet the requirements of the Economics major:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 112</td>
<td>European Economic History</td>
<td>3</td>
</tr>
<tr>
<td>ECON 120</td>
<td>Economics and Environmental Degradation</td>
<td>3</td>
</tr>
<tr>
<td>ECON 181</td>
<td>Economics of Racism</td>
<td>3</td>
</tr>
<tr>
<td>ECON 184</td>
<td>Women and the Economy</td>
<td>3</td>
</tr>
<tr>
<td>ECON 189</td>
<td>Economics at the Movies</td>
<td>3</td>
</tr>
</tbody>
</table>

Students planning graduate work in Economics should consult an advisor regarding additional coursework in mathematics, statistics, and computer science. The following are strongly recommended:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 141</td>
<td>Introduction to Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MATH 26B</td>
<td>Calculus II for the Social and Life Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>D1</td>
<td>Area D Course</td>
<td>0</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
<td>0</td>
</tr>
<tr>
<td>E1</td>
<td>Area E Course</td>
<td>3</td>
</tr>
<tr>
<td>F1</td>
<td>Area F Course</td>
<td></td>
</tr>
</tbody>
</table>

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>D1</td>
<td>Area D Course</td>
<td>0</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
<td>0</td>
</tr>
<tr>
<td>E1</td>
<td>Area E Course</td>
<td>3</td>
</tr>
<tr>
<td>F1</td>
<td>Area F Course</td>
<td></td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.
Certificate in Economics Education

Units required for Certificate: 15

Program Description
The Economics Education Certificate Program is designed to give participants a solid foundation in economics that will enable them to teach the subject in primary and secondary schools. The Certificate Program is intended for

1. future or practicing teachers who desire credential authorization to teach the one-semester economics course required of all California public high school students; and
2. future or practicing teachers who wish to infuse economics into other K-12 curricula.

Students majoring in Liberal Studies or Social Science or completing a teacher credential program are especially encouraged to participate.

Note: Participants who are not enrolled in Sacramento State may take these courses through the College of Continuing Education.

For more information about the program, contact: Director of the Center for Economic Education, Professor David M. Lang, (916) 278-7077.

Minimum Grade Requirement
A grade of "B" or higher must be obtained in each course for the Certificate.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 195</td>
<td>Economic Internship ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Course (6 Units)
Select any two upper division economics course ² | 6

Total Units | 15

¹ The ECON 195 requirement will enable the student to serve as a Teaching Assistant to a professor teaching either ECON 1A or ECON 1B. Students must receive the permission of the Director of the Center for Economic Education prior to enrolling in ECON 195 for the Certificate program and will be assigned to a professor by the Director.

² not including ECON 104

MA in Economics

Total units required for MA: 30

Program Description
The Master of Arts program in Economics is designed to assist students in developing the analytical skills and reflective capacities required to think clearly and coherently about economic matters and to apply their skill and knowledge effectively to problem areas. The program seeks to prepare students for careers in business, government, and education where applied skills are appropriate. To this end, the Department offers coursework and supervised study in economic theory, quantitative analysis, and a number of other fields of interest.

In line with the applied emphasis of the graduate program, the Department maintains a relationship with both the California state government and many private organizations in the Sacramento area. Recent graduates have gone on to jobs in government at all levels as well as to careers in labor unions, banks, manufacturing corporations, and other private organizations.

Admission Requirements
Admission as a classified graduate student in Economics requires:

- a minimum 3.0 GPA in the last 60 units attempted;
- a minimum 3.0 GPA in undergraduate Economics work;
- ECON 100A (Intermediate Macroeconomic Theory) or equivalent; and ECON 100B (Intermediate Microeconomic Theory) or equivalent;
- ECON 141 (Introduction to Econometrics) or equivalent;
- MATH 26A (Calculus I) or equivalent; recommend MATH 26B (Calculus II) or equivalent;
- two letters of recommendation from undergraduate instructors;
- a minimum score of 550 on the TOEFL (this requirement applies only to students earning degrees abroad whose primary language is not English); and
- a baccalaureate degree.

Students not meeting the above requirements may be granted conditionally classified graduate status with permission of the Economics Department Graduate Committee, providing the applicant submits in writing the reasons why he/she desires graduate training and why the Committee should waive one or more of the above requirements. GRE scores are not required, but will be considered by the admissions committee if they are included with an application. Analytical writing GRE scores above 4.5 allow admitted students to waive the GWAR requirement. Students accepted on this basis may be required to complete a set of courses prior to beginning the Economics Graduate core, or to fulfill other conditions prior to approval for fully classified status. Failure to conform to this stipulation will result in the revocation of the conditionally classified status.
Admission Procedures

Applicants must complete a university application and also meet departmental requirements by the posted application deadline date for term applying. For more admission information and application deadlines, please visit http://www.csus.edu/gradstudies/. Admission based on the deadlines allows students to meet registration deadlines. Applications submitted after the above-mentioned deadlines will only be reviewed in the event that room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following documents with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, other than Sacramento State;
- TOEFL scores, if applicable.

In addition to the above documents, arrange for two letters of recommendation to be sent to the Economics Department. Any applicant not meeting the first three admission requirements as specified above should submit to the Department in writing his/her reasons for requesting a waiver of the admission requirements.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy as soon as the graduate student has:

- successfully completed the following, and with a minimum grade of "B":
- be enrolled, or have successfully completed ECON 200C;
- been recommended for advancement by the Graduate Committee; and
- take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with the Economics Department Graduate Coordinator. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

The following cannot be used as part of the 30 units toward the master’s degree:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 112</td>
<td>European Economic History</td>
<td>3</td>
</tr>
<tr>
<td>ECON 120</td>
<td>Economics and Environmental Degradation</td>
<td>3</td>
</tr>
<tr>
<td>ECON 181</td>
<td>Economics of Racism</td>
<td>3</td>
</tr>
<tr>
<td>ECON 184</td>
<td>Women and the Economy</td>
<td>3</td>
</tr>
<tr>
<td>ECON 189</td>
<td>Economics at the Movies</td>
<td>3</td>
</tr>
<tr>
<td>ECON 195</td>
<td>Economic Internship</td>
<td>1-3</td>
</tr>
<tr>
<td>ECON 198</td>
<td>Tutoring in Economics</td>
<td>1-3</td>
</tr>
<tr>
<td>ECON 199</td>
<td>Special Problems</td>
<td>1-3</td>
</tr>
<tr>
<td>ECON 204</td>
<td>Business Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

All students are required to complete the core course sequence outlined below with a minimum grade of "B" in each course. After completing the core courses, the student selects a thesis plan to finish the degree requirements. The core courses, as well as the thesis, are outlined below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 200A</td>
<td>Advanced Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 200B</td>
<td>Advanced Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 200C</td>
<td>Advanced Applied Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 200M</td>
<td>Mathematics for Economists</td>
<td>3</td>
</tr>
<tr>
<td>ECON 241</td>
<td>Applied Econometric Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Requirements (12 Units)

Select 12 units of electives 1

Culminating Requirement (3 Units)

ECON 500 | Master’s Thesis                            | 3     |

Total Units 30

1 Of these 12 units, six units (i.e., 2 courses) must come from 200-level courses. Note the following:

- There can be no 100-level/200-level duplication of similar courses (e.g., you cannot receive credit for ECON 130 and ECON 230, ECON 138 and ECON 238, etc.).
- Selected courses (e.g., Math, Statistics, or Computer Science) from other departments may be allowed as substitutes with the approval of the Graduate Coordinator.
- ECON 295 and ECON 298 do not count as electives toward satisfying the 12 unit requirement without the approval of the Graduate Coordinator.

Minor in Economics

Units required for Minor: 21, twelve of which must be upper division Economics units

Program Description

A minor in Economics may be especially attractive to students majoring in Business Administration, Government, and Environmental Studies or in one of the other Social Science disciplines. The Economics minor adds both theoretical and analytical depth. In addition, it provides the historical and institutional background important to an understanding of contemporary economic issues. It offers students in other majors a broader-based undergraduate education while widening the choice of job possibilities. Employers view the minor in Economics favorably.
Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

1. STAT 1 may be counted toward the minor.
2. No more than 3 units of ECON 199 may be used to meet the Economic Minor requirements.
3. No more than 6 units from the following courses may be used to meet the Economic Minor requirements: ECON 112, ECON 120, ECON 181, ECON 184, and ECON 189.

Notes: The following cannot be used to meet the requirements of the Economics minor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 104</td>
<td>Introduction to the United States Economy</td>
<td>3</td>
</tr>
<tr>
<td>ECON 195</td>
<td>Economic Internship</td>
<td>1 - 3</td>
</tr>
<tr>
<td>ECON 198</td>
<td>Tutoring in Economics</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

Environmental Studies

*College of Social Sciences and Interdisciplinary Studies*

Program Description

The Environmental Studies program can help students use the resources of the entire University to gain an interdisciplinary understanding of such increasingly serious issues as pollution, wildlife and wilderness preservation, land use, biodiversity loss, resource depletion, energy conservation, and a generally healthful relationship between nature and society. The program offers both a major and a minor and also assists students in constructing special majors and identifying programs and individual courses in various departments that concern themselves with environmental questions.

The major is designed to help students understand environmental issues in their political, social, and scientific context. Because dealing with environmental issues requires an interdisciplinary approach, we emphasize the development of strong writing, research, and quantitative skills and a broad liberal arts perspective.

Environmental Studies students find work primarily in research, analysis, and enforcement activities in state, federal, and local governments. Others work for nonprofit organizations such as The Nature Conservancy, Audubon Society, and Sierra Club. Some work as consultants to private firms, and some graduates become teachers in primary schools, secondary schools, and universities. A few have created their own careers in such areas as organic farming, managing cooperatives, and social action.

Environmental Studies students often go on to professional and graduate schools in such fields as law, ecology, engineering, journalism, economics, public health, political science, public administration, special education, environmental policy, and human ecology.

Degree Programs

- BA in Environmental Studies (p. 967)
- BS in Environmental Studies (p. 969)
- Minor in Environmental Studies (p. 970)

Special Features

- Sacramento, as the state capital, offers excellent opportunities for study and employment. One of several ways to incorporate these opportunities into a student’s academic program is through Environmental Studies internship experiences. The Major offers an Internship program to provide career-relevant experience for students and assist their transition to employment. Students find internships with a remarkable array of government agencies, non-government organizations, businesses and community groups.

- The faculty also carries on a field study program to introduce students to as many features as possible of the extraordinarily varied Northern California region.

- Faculty in the Environmental Studies Department represent disciplines including Biology, Ecology, Toxicology, Political Science, Environmental Engineering, among others.

Career Possibilities

- Environmental Analyst · Pollution Analyst · Pollution Measurement Technician · Environmental Planner · Naturalist · Environmental Consultant · Energy Conservation Specialist · Environmental Journalist · Environmental Health Specialist · Lobbyist · Environmental Educator · Environmental Economist · Recycling Coordinator · Hazardous Materials Specialist · Legislative Researcher · Water Quality Technician · Park Interpretative Specialist · Transportation Planner · Waste Management Specialist · Levee Management Specialist · Conservation Analyst · Environmental Investigator · Environmental Interpreter · Environmental Resource Planner · Park Ranger · Permitting Officer · Ranger · Habitat Assessment Specialist · Environmental Compliance Officer · Legislative Aide · Air Pollution Specialist · Energy Manager · Game Warden · Wildlife Manager · Hazardous Waste Specialist · Pollution Prevention Specialist · Compliance Program Manager · Community Education Officer · Environmental Health and Safety Officer · Mosquito Control Technician · Public Works Program Manager · Water Conservation Manager · Environmental Impact and Review Assessment · Environmental Scientist · Environmental Policy Analyst

Contact Information

Dr. Wayne Linklater, Department Chair
Donna Leiva, Administrative Support Coordinator I
Amador Hall 554A
(916) 278-6620
FAX (916) 278-7582
Email: envs-sc@csus.edu
www.csus.edu/envs (http://www.csus.edu/envs/)

Faculty

FLOWERS, CHRISTINE
FULTON, JULIAN
GOLDSTENE, JAMES

Linklater, Wayne
ENVS 10. Introduction to Environmental Science. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring, Winter

Course looks at the earth as an ecosystem composed of biological, chemical, and physical systems. Focus is on the interaction of these systems with each other and with human population, technology, and production. Students should acquire the fundamentals of a scientific understanding of the ecological implications of human activities. Specific topics treated within the context of ecosystem analysis include energy flows, nutrient cycles, pollution, resource use, climate change, species diversity, and population dynamics.

ENVS 10H. Honors Environmental Science. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring, Summer

The earth as an ecosystem composed of biological, chemical, and physical systems. Focus is on the interaction of these systems with each other and with human population, technology, and production. Students should acquire the fundamentals of a scientific understanding of the ecological implications of human activities. Specific topics treated within the context of ecosystem analysis include energy flows, nutrient cycles, pollution, resource use, climate change, species diversity, and population dynamics. Students read important original research on topics. All students participate in a semester long project that applies the principles of the course to a real environmental issue.

ENVS 11. Environmental Issues and Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Examines Western cultural values and personal beliefs toward the environment. Teaches critical thinking skills to analyze issues to make informed choices that may impact the earth, its resources and their management as consumers, leaders, professionals and moral agents.

ENVS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provides students with the opportunity to interact with fellow classmates and the seminar leader to build a community of academic and personal support.

ENVS 110. Contemporary Environmental Issues. 3 Units
Term Typically Offered: Fall, Spring

Examination of a variety of environmental issues with emphasis on the social aspects of the problems and solutions. The class is conducted primarily through discussion, with an unusually high degree of student responsibility. Group and individual projects are designed to involve students in community affairs as well as to give them an opportunity to develop a personal perspective on environmental issues.

ENVS 111. Environmental Ethics. 3 Units
Prerequisite(s): ENVS 10 or ENVS 10H or ENVS 11 or permission from instructor.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Consideration of the ethical dimensions of human interactions with the natural world and with each other in the context of complex societal needs. Students will employ critical thinking skills to integrate insights from the biological sciences, social sciences, and humanities to make ethical decisions about controversial environmental topics. Students are encouraged to examine multiple perspectives on these issues through debate, discussion and personal reflection. No prior experience with philosophy is required.

ENVS 112. International Environmental Problems. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X. Environmental Studies majors only.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Global perspective on current problems of environmental protection and resource use. Population growth, food production, industrialization, technology and cultural change are considered, with heavy emphasis on the social dynamics of environmental problems. A variety of political views is studied, and an attempt is made to develop a perspective useful to students in personal and political decisions.

Note: PCR/IR students are encouraged to contact the department regarding enrollment into this course.

ENVS 120. Quantitative Methods for Environmental Science. 3 Units
Prerequisite(s): Must be an ENVS major or minor; STAT 1 or instructor permission.
Term Typically Offered: Fall, Spring

Research tools and methods used by environmental professionals including selected statistical procedures, data sources and presentation and interpretation of results. Students will become familiar with the wide range of equipment available to fit their special needs including the computer time-sharing system.
ENVS 121. Field Methods in Environmental Science. 2 Units
Prerequisite(s): Must be an ENVS major or minor
Term Typically Offered: Fall, Spring, Summer

This field course includes the direct observation of human impact on specific environments and examples of mitigation strategies. Students will learn information gathering and data presentation methodologies useful in environmental impact assessment. Lecture three hours per week; one-day and weekend field trips will be arranged.
Note: Course also substitutes for ENVS 175.

Field trip(s) may be required.

ENVS 122. Environmental Impact Analysis: CEQA and NEPA. 3 Units
Prerequisite(s): Must be an ENVS major or minor
Term Typically Offered: Fall only

Review of legislative and judicial requirements for environmental impact analysis. Students will be asked to review actual project environmental impact reports, analyze the methods employed, understand the relationship of the report to the planning process, and prepare such a document.
Note: It is recommended that students complete ENVS 128 or have some actual experience with environmental impact documentation before taking this course.

ENVS 124. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature and forms of social justice and injustice. Addresses key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academe and social activism in achieving social justice.
Cross listed as ANTH 130, ID 124, ETHN 124, FACS 124 and SOC 124. Only one may be counted for credit.

ENVS 128. Environment and the Law. 3 Units
Term Typically Offered: Spring only

Introduction to environmental law, including: the evolution of environmental legislation, environmental issues in the court system, environmental regulation and administrative law, and environmental torts. Emphasis is on understanding legal process and the special challenges environmental problems present to the legal system.
Cross Listed: POLS 128; only one may be counted for credit.

ENVS 130. Environmental Toxicology. 3 Units
Prerequisite(s): CHEM 1A or CHEM 6A or instructor permission.
Term Typically Offered: Spring only

Students will study the source and occurrence of contaminants in the environment; their fate and transport; and their adverse effects on humans and non-human populations, species and ecosystems. The course focuses on studying environmental issues concerning human and ecosystem health, the impact of human activity since World War II in contributing to human disease and ecosystem disruption. Risk perception and communication as it concerns environmental toxicology will also be discussed.

ENVS 135. California Water and Society. 3 Units
Term Typically Offered: Fall, Spring

This course provides the historical, scientific, legal, institutional, and economic background needed to understand the social and ecological challenges of providing water for California’s growing population, agricultural economy, and other uses- all of which are made more complex by climate change. We will look at past and current debates around cases ranging from local issues on the American River to statewide issues that converge in the Sacramento-San Joaquin Delta. Both physical and social science research skills will be developed.

ENVS 137. Conservation and Society. 3 Units
Prerequisite(s): ENVS 10 or ENVS 10H, and BIO 1
Term Typically Offered: Fall, Spring, Summer

Course will introduce students to the interdisciplinary field of conservation biology through the lens of modern society. Students will acquire a basic understanding of the history of the field of conservation, and the values that drive our desire to preserve species and natural systems. Students will learn about conservation challenges, will analyze the scientific and social factors that contribute to addressing those challenges, and will learn to appreciate the diverse perspectives that are vital in modern conservation.

ENVS 138. Introduction to Environmental Sociology. 3 Units
Term Typically Offered: Fall, Spring

The study of human society, the natural environment, and their mutual interactions. Examines environmental sociology at several levels, from the micro level of individual communities to the meso level of government policies to macro theoretical considerations. Analyzes environmental issues in a global context also included.
Cross Listed: SOC 138.

ENVS 140. Energy, Society, and the Environment. 3 Units
Prerequisite(s): Upper division standing
Term Typically Offered: Fall, Spring

This course covers the concepts and tools necessary to understand society’s diverse technology and policy choices around energy production and use. Students will apply both quantitative and qualitative methods to analyze opportunities and impacts of energy systems with consideration for environmental sustainability, international development, and social equity. We will consider a range of energy technologies, their historical trajectories, current drivers, and prospects for addressing energy challenges at different scales, from households to the global climate.

ENVS 144. Sustainability Science & Policy. 3 Units
Prerequisite(s): ENVS 10, BIO 1, or instructor permission
Term Typically Offered: Fall, Spring

Examines issues of environmental, social, and economic sustainability in domestic and international contexts. Students will study the science, policy, and implementation of sustainable practices regarding water, food, and energy resources. Students will learn the history of sustainability, definitions of sustainability, how sustainability is measured, and how sustainability applies to urban and rural landscapes.
ENVS 147. Urban Agriculture and Aquaponics. 3 Units
Term Typically Offered: Fall, Spring

This course uses campus initiatives in food and bio-waste recycling, combined with vermiculture and aquaponics, to address larger topics in urban food production. This subject has significance for addressing concerns about food access, security, quality, and even local economic development. The course will include hands-on activities on campus, projects with local urban agriculture organizations, and reports connecting the specifics of the course with core questions in environmental science and policy.

ENVS 149. Agroecology. 3 Units
Term Typically Offered: Fall, Spring

Ecological aspects of the production of food and fiber, with emphasis on the sustainability and adequacy of the global food supply to meet the needs of a growing, urbanized population. Covers topics basic to all agricultural systems - soil development, fertility, irrigation, nutrient cycles, crop selection - while contrasting methods developed for large-scale industrial food production with traditional and/or organic farming methods.

Note: Required field trips.

Field trip(s) may be required.

ENVS 151. Restoration Ecology. 3 Units
Term Typically Offered: Spring only

Overview of concepts and practices in restoration ecology, emphasizing the application of ecological principles to restoration design, implementation, and monitoring. Major course topics will include historical ecology, soils and hydrology, plant and animal ecology, exotic species, endangered species concerns, mitigation, monitoring, planning, and assessment as they apply in a restoration context. Students will work in local restoration projects; field trips required.

Field trip(s) may be required.

ENVS 155. Environmental Management and Decision-Making. 3 Units
Prerequisite(s): ENVS 10 or the equivalent, or instructor permission.
Term Typically Offered: Fall only

Course investigates the motivations and barriers to engaging in pro-environmental behaviors. Focus on theories from multiple social and behavioral sciences to understand how individuals form judgments and decisions regarding natural resource and ecosystem management. Specific topics may include principal-agent theory, dual-process theory, multi-criteria decision-making, theory of planned behavior, norm-value-belief, community-based social marketing, and structured decision-making. Students will build skills in stakeholder engagement and science communication.

ENVS 158. Wetlands Ecology. 3 Units
Term Typically Offered: Fall only

Introduces and discusses characteristics of wetland systems; principles of wetland ecology; functions of wetlands; and regulations and permitting process regarding development near and within wetlands. Appropriate for students planning careers in natural resource management. Though not a substitute for professional training in wetlands delineation and functional assessment, students will gain a basis for such assessments. Familiarity with basic principles of chemistry, physics, and biology recommended.

Note: Field trips required.

Field trip(s) may be required.
ENVS 186B. Ecological and Environmental Issues Seminar. 1 Unit
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2.
Term Typically Offered: Fall, Spring

Series of at least 10 seminars in ecological and environmental issues. Topics with each seminar will vary each semester.
Note: May be repeated for credit. No more than one unit of ENVS 186B may be counted toward the upper division major requirement. Cross Listed: BIO 186B; only one may be counted for credit.
Credit/No Credit

ENVS 187. Environmental Studies Seminar. 1 Unit
Term Typically Offered: Fall, Spring

Students will participate in the semester-long University seminar and will be exposed to a variety of environmental issues and topics presented by speakers from CSUS, the USGS, government and professional organizations, among many others. Topics include issues such as climate change, water use and conversation, environmental sustainability, environmental policy and decision-making, and many important regional issues.
Credit/No Credit

ENVS 190. Senior Thesis. 3 Units
Prerequisite(s): ENVS 112 (International Environmental Problems, writing intensive), or instructor permission.
Term Typically Offered: Fall, Spring

Explores an environmental problem or issue in great depth. It includes a detailed review of the scientific literature, synthesis, and integration of information from the literature, and evaluation of the information leading to conclusions and recommendations that address the problem or issue. Thesis subjects are chosen by the student and can be from a myriad perspectives addressed in the Environmental Studies curriculum including scientific, social, political, economic, and cultural issues.
Enrollment ordinarily occurs in a senior’s final semester.
Note: The course is usually taken in a student’s final semester but might be taken in the penultimate semester with the instructor’s permission.

ENVS 195. Environmental Studies Internship. 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience in an approved legislative or administrative office at some level of local, state or federal government, or in a public or private organization that is concerned with the environment. Supervision is provided by the faculty instructor and responsible officials in the work situation.
Note: Open to majors only, subject to instructor permission.
Credit/No Credit

ENVS 195M. Mini Internship. 1 Unit
Term Typically Offered: Fall, Spring

This introductory work experience is designed for sophomores and juniors. The student must complete 45 hours of environmentally related work in a volunteer position with an environmental organization or participation in an environmentally focused event. Supervision is provided by the faculty instructor and responsible officials in the work situation.
Note: Open to majors only, subject to instructor permission.
Credit/No Credit

ENVS 196G. Youth Recreation in Camp Settings. 3 Units
Term Typically Offered: Fall, Spring

This course examines camp programs in a wide variety of settings, for a variety of populations. Topics cover camp theories, camp management, risk-management, activity planning, inclusive programming, and staff training. Includes an emphasis on leadership, supervision, and organizational development of camp programs. Course uses lecture, field experiences, guest speakers, and service learning.

ENVS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who are competent to carry on individual work. Admission requires permission of the Director and the faculty member who will direct the work.
Credit/No Credit

ENVS 295. Practicum. 2 - 6 Units
Prerequisite(s): Permission of faculty advisor and director.
Term Typically Offered: Fall, Spring

Graduate internship experiences in practical setting.
Note: Open only to graduate students specializing in environmental studies.

ENVS 296. Experimental Offerings in Environmental Studies. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Courses offered on an experimental basis.

ENVS 299. Special Problems: Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.
Credit/No Credit

BA in Environmental Studies

Units required for Major: 66-69
Total units required for BA: 120

Program Description

The Environmental Studies program can help students use the resources of the entire University to gain an interdisciplinary understanding of such increasingly serious issues as pollution, wildlife and wilderness preservation, land use, biodiversity loss, resource depletion, energy conservation, and a generally healthful relationship between nature and society.

The major is designed to help students understand environmental issues in their political, social, and scientific context. Because dealing with environmental issues requires an interdisciplinary approach, we emphasize the development of strong writing, research, and quantitative skills and a broad liberal arts perspective.

Minimum Grade Requirement

A minimum grade of “C-” is required in all courses required for the Environmental Studies B.A. and B.S. majors.
## Program Requirements

### Required Lower Division Courses (23-24 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>5</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>4 - 5</td>
</tr>
<tr>
<td>or BIO 10 &amp; BIO 15L</td>
<td>Basic Biological Concepts &amp; Laboratory Investigations in Biology</td>
<td></td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM 6A</td>
<td>Introduction to General Chemistry</td>
<td></td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 1A</td>
<td>Introduction to Macroeconomic Analysis</td>
<td></td>
</tr>
<tr>
<td>ENVS 10</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>or GEOL 10</td>
<td>Physical Geology</td>
<td>3</td>
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</tbody>
</table>

### Required Upper Division Courses (30 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 160</td>
<td>General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 111</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 112</td>
<td>International Environmental Problems</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 120</td>
<td>Quantitative Methods for Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 121</td>
<td>Field Methods in Environmental Science</td>
<td>2</td>
</tr>
<tr>
<td>ENVS 122</td>
<td>Environmental Impact Analysis: CEQA and NEPA</td>
<td>3</td>
</tr>
<tr>
<td>ENVS/POLS 128</td>
<td>Environment and the Law</td>
<td>3</td>
</tr>
<tr>
<td>ENVS/POLS 171</td>
<td>Environmental Politics and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 187</td>
<td>Environmental Studies Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ENVS 190</td>
<td>Senior Thesis</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 195</td>
<td>Environmental Studies Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

### Environmental Science Electives (6 Units)

Select two of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 110</td>
<td>Contemporary Environmental Issues</td>
<td></td>
</tr>
<tr>
<td>ENVS 130</td>
<td>Environmental Toxicology</td>
<td></td>
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<tr>
<td>ENVS 135</td>
<td>California Water and Society</td>
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<tr>
<td>ENVS 137</td>
<td>Conservation and Society</td>
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<tr>
<td>ENVS 140</td>
<td>Energy, Society, and the Environment</td>
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<tr>
<td>ENVS 144</td>
<td>Sustainability Science &amp; Policy</td>
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<tr>
<td>ENVS 147</td>
<td>Urban Agriculture and Aquaponics</td>
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<tr>
<td>ENVS 149</td>
<td>Agroecology</td>
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<tr>
<td>ENVS 151</td>
<td>Restoration Ecology</td>
<td></td>
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<tr>
<td>ENVS 158</td>
<td>Wetlands Ecology</td>
<td></td>
</tr>
<tr>
<td>ENVS 163</td>
<td>Ethnoecology</td>
<td>1</td>
</tr>
</tbody>
</table>

### Interdisciplinary Electives (6 Units)

Select two of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 110</td>
<td>Cost Benefit Analysis</td>
<td></td>
</tr>
<tr>
<td>ECON 123</td>
<td>Resource Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 162</td>
<td>Energy Economics</td>
<td></td>
</tr>
<tr>
<td>ENVS 124</td>
<td>Social Justice in Interdisciplinary Perspective</td>
<td></td>
</tr>
<tr>
<td>ENVS/HIST 165</td>
<td>American Environmental History</td>
<td></td>
</tr>
<tr>
<td>ENVS/SOC 138</td>
<td>Introduction to Environmental Sociology</td>
<td></td>
</tr>
<tr>
<td>HIST 139A</td>
<td>Global Environmental History in the Age of Imperialism, 1450-Present Day</td>
<td></td>
</tr>
</tbody>
</table>

### General Education Requirements

#### Area A: Basic Subjects (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Area B: Physical Universe and Its Life Forms (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>2</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>2</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Area C: Arts and Humanities (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Area D: The Individual and Society (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area D Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area D Course</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

#### Area E: Understanding Personal Development (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area E Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Area F: Ethnic Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area F Course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**: 66-69

1. Course also satisfies General Education (GE)/Graduation Requirement.

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
Environmental Studies B.A. and B.S. majors. A minimum grade of "C-" is required in all courses required for the Minimum Grade Requirement. Emphasize the development of strong writing, research, and quantitative skills and a broad liberal arts perspective. Because dealing with environmental issues requires an interdisciplinary approach, we consider increasingly serious issues as pollution, wildlife and wilderness preservation, land use, biodiversity loss, resource depletion, energy conservation, and a generally healthful relationship between nature and society.

The major is designed to help students understand environmental issues in their political, social, and scientific context. Because dealing with environmental issues requires an interdisciplinary approach, we emphasize the development of strong writing, research, and quantitative skills and a broad liberal arts perspective.

Minimum Grade Requirement
A minimum grade of "C-" is required in all courses required for the Environmental Studies B.A. and B.S. majors.

BS in Environmental Studies
Units required for Major: 67-69
Total units required for BS: 120

Program Description
The Environmental Studies program can help students use the resources of the entire University to gain an interdisciplinary understanding of such increasingly serious issues as pollution, wildlife and wilderness preservation, land use, biodiversity loss, resource depletion, energy conservation, and a generally healthful relationship between nature and society.

The major is designed to help students understand environmental issues in their political, social, and scientific context. Because dealing with environmental issues requires an interdisciplinary approach, we emphasize the development of strong writing, research, and quantitative skills and a broad liberal arts perspective.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td>5</td>
</tr>
<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
<td>5</td>
</tr>
<tr>
<td>or BIO 10</td>
<td>Basic Biological Concepts &amp; BIO 15L Laboratory Investigations in Biology</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>or CHEM 6A</td>
<td>Introduction to General Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 10</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 163</td>
<td>Environmental Science Electives</td>
<td>9</td>
</tr>
<tr>
<td>ENVS 190</td>
<td>Field Methods in Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 195</td>
<td>Environmental Studies Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ENVS 199</td>
<td>Senior Thesis</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 171</td>
<td>Environmental Studies Internship</td>
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</tr>
</tbody>
</table>

Policy Electives (3 Units)
Select one of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 122</td>
<td>Environmental Impact Analysis: CEQA and NEPA</td>
<td>3</td>
</tr>
<tr>
<td>ENVS/POLS 128</td>
<td>Environment and the Law</td>
<td>3</td>
</tr>
<tr>
<td>ENVS/POLS 171</td>
<td>Environmental Politics and Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

Environmental Science Electives (9 Units)
Select three of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 110</td>
<td>Contemporary Environmental Issues</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 130</td>
<td>Environmental Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 135</td>
<td>California Water and Society</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 137</td>
<td>Conservation and Society</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 144</td>
<td>Sustainability Science &amp; Policy</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 140</td>
<td>Energy, Society, and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 147</td>
<td>Urban Agriculture and Aquaponics</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 149</td>
<td>Agroecology</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 151</td>
<td>Restoration Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 158</td>
<td>Wetlands Ecology</td>
<td>3</td>
</tr>
</tbody>
</table>

Interdisciplinary Electives (9 Units)
Select three of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 103</td>
<td>Plants and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>BIO 112</td>
<td>Plant Taxonomy</td>
<td>3</td>
</tr>
<tr>
<td>BIO 118</td>
<td>Natural Resource Conservation</td>
<td>3</td>
</tr>
<tr>
<td>BIO 157</td>
<td>General Entomology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 162</td>
<td>Ichthyology. The Study of Fishes</td>
<td>3</td>
</tr>
<tr>
<td>BIO 164</td>
<td>Amphibians and Reptiles: An Introduction to Herpetology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 166</td>
<td>Ornithology</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in Environmental Studies

Units required for Minor: 22

Program Description

The Environmental Studies program can help students use the resources of the entire University to gain an interdisciplinary understanding of such increasingly serious issues as pollution, wildlife and wilderness preservation, land use, biodiversity loss, resource depletion, energy...
conservation, and a generally healthful relationship between nature and society.

**Minimum Grade Requirement**
A minimum grade of "C-" is required in all courses required for the Environmental Studies minor.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 10</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 111</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 187</td>
<td>Environmental Studies Seminar</td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENVS 122 Environmental Impact Analysis: CEQA and NEPA</td>
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<tr>
<td></td>
<td>ENVS/POLS Environment and the Law</td>
<td>128</td>
</tr>
<tr>
<td></td>
<td>ENVS/POLS Environmental Politics and Policy</td>
<td>171</td>
</tr>
<tr>
<td>Select four of the following:</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>ENVS 110 Contemporary Environmental Issues</td>
<td></td>
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<tr>
<td></td>
<td>ENVS 130 Environmental Toxicology</td>
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</tr>
<tr>
<td></td>
<td>ENVS 135 California Water and Society</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENVS 137 Conservation and Society</td>
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<td></td>
<td>ENVS 140 Energy, Society, and the Environment</td>
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<tr>
<td></td>
<td>ENVS 144 Sustainability Science &amp; Policy</td>
<td></td>
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<tr>
<td></td>
<td>ENVS 147 Urban Agriculture and Aquaponics</td>
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<td></td>
<td>ENVS 149 Agroecology</td>
<td></td>
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<tr>
<td></td>
<td>ENVS 151 Restoration Ecology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENVS 155 Environmental Management and Decision-Making</td>
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<tr>
<td></td>
<td>ENVS 158 Wetlands Ecology</td>
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<tr>
<td></td>
<td>ENVS 163 Ethnoecology</td>
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</tbody>
</table>

**Total Units** 22

**Ethnic Studies**

*College of Social Sciences and Interdisciplinary Studies*

**Program Description**
Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicanx-Latinx, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a diverse society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors. Program advising and other information can be obtained from the Ethnic Studies Office.

**Degree Programs**

- BA in Ethnic Studies (Asian American Studies) (p. 977)
- BA in Ethnic Studies (Chicanx/Latinx Studies) (p. 979)
- BA in Ethnic Studies (General Studies) (p. 980)
- BA in Ethnic Studies (Native-American Studies) (p. 982)
- BA in Ethnic Studies (Pan African Studies) (p. 983)
- BA in Ethnic Studies (Teachers in Bilingual Education) (p. 985)
- BA in Ethnic Studies (Teachers in Urban Settings) (p. 986)
- Minor in Ethnic Studies (p. 989)
- Minor in Asian American Studies (p. 988)
- Minor in Chicano and Latinx Studies (p. 989)
- Minor in Native American Studies (p. 990)
- Certificate in Pan African Studies (p. 990)

**Special Features**
- A student who majors in Ethnic Studies will not only have a strong background in one of the seven areas of specializations but will also gain broad background knowledge of other ethnic groups. Each program area develops its major focus in coordination with other program areas.
- Ethnic Studies encourages students to actively participate in community service learning projects. These projects afford students such opportunities as working directly with community-based organizations and/or agencies, local high schools, and/or middle schools.
- Ethnic Studies regularly sponsors cultural programs providing an opportunity for learning more about the experiences of the social groups framing the content of the Ethnic Studies program.

**Career Possibilities**
The rich educational experience of Ethnic Studies majors and minors are excellent preparation for careers and professions in the public and private sectors, as well as graduate school. Ethnic Studies majors and minors enter government service, politics, community/social service, business, public school teaching/administration, higher education teaching/administration, social work, counseling, law, journalism, and much more.

**Contact Information**
Dr. Annette Reed, Department Chair
Rena Horse, Administrative Support Coordinator
Amador Hall 463
(916) 278-6646
www.csus.edu/ethn (http://www.csus.edu/ethn/)

**Faculty**

BAKER, BRIAN
BOSTON, MARTIN
Studies explores contemporary challenges and opportunities of Asian American history, purpose, and development of the field. Fundamental concepts

Introduction to the discipline of Asian American Studies, including the


Ethn 11B. Elementary Swahili. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the language of Swahili speaking people. Emphasis is on developing vocabulary and writing skills. Attention will be given to understanding the relationship of language to culture.

Prerequisite(s): ETHN 1A or its equivalent; or instructor permission.

Term Typically Offered: Fall, Spring

Continuation of ETHN 1A with more emphasis on developing reading and listening skills along with further developing writing abilities. Provides deeper knowledge of the customs, traditions and experiences of Swahili speaking people.

ETHN 10. Africa: Myths and Realities. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to African Studies. Examines the most common myths found in both popular and academic literature about Africa and its people.

ETHN 11. Introduction to Ethnic Studies. 3 Units
Term Typically Offered: Fall, Spring

This course introduces foundational concepts and themes of the discipline of Ethnic Studies. The course focuses on the four historically defined racialized core groups: Native Americans, African Americans, Asian Americans, and Chicano/a/Latinx.

ETHN 11H. Introduction to Ethnic Studies (Honors). 3 Units
Term Typically Offered: Fall, Spring

This course introduces foundational concepts and themes of the discipline of Ethnic Studies. The course focuses on the four historically defined racialized core group: Native Americans, African Americans, Asian Black Americans, and Chicano/a/Latinx.

ETHN 14. Introduction to Asian American Studies. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the discipline of Asian American Studies, including the history, purpose, and development of the field. Fundamental concepts and approaches in Asian American Studies will be discussed. Course also explores contemporary challenges and opportunities of Asian American Studies.

ETHN 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills.

Note: Only open to students admitted to EOP Learning Communities Program.

ETHN 22. Contemporary Issues and Social Change. 3 Units
Prerequisite(s): ETHN 21
Term Typically Offered: Spring only

Generation after generation, university students have been key constituents in movements for social change. From public demonstrations to research studies, colleges and universities afford countless opportunities for students to advocate for a better world. This course explores how students can utilize university resources to explore interests and concerns, hone academic skills, and contribute to social change.

ETHN 30. Introduction to Chicano/Latino Studies. 3 Units
Term Typically Offered: Fall, Spring

Introduction to exploring the Chico/a/Latino experience in the U.S. An overview of the diverse and multiple experiences of people of Mexico, Cuba, Puerto Rico, Dominican Republic, Central and South America. From a socio-historical perspective, the intersections of class, race/ethnicity, and gender will be explored.

ETHN 50. Native American Religion and Philosophy. 3 Units
Term Typically Offered: Spring only

In-depth study into the principles of Native American religion and philosophical thought and the resulting impact of European culture upon the Native American societies.

ETHN 53. Introduction to Native American Studies. 3 Units
Term Typically Offered: Fall, Spring

Broad overview to the field of Native American Studies, including history, sovereignty, popular imagery, economic development, literature, philosophy, religion, urbanization, gender, social issues, and cultures of native peoples. Introduction to Native American Studies; recognizes intra-tribal, trans-national, and various historical, cultural, and political relationships, and issues through an interdisciplinary approach. The primary focus will be post 1900.

ETHN 70. Introduction to Pan African Studies. 3 Units
Term Typically Offered: Fall, Spring

Introduction to Pan African Studies. It is intended to introduce students to the context from which Pan African Studies arose as an academic discipline. It provides an overview of the academic, cultural, economic, and political inclusion of the pre/post colonial experience contributions of peoples of African descent. It is intended to show the interdisciplinary character of the study of Pan Africanism.
ETHN 71. Leadership in the African Diaspora. 3 Units
Term Typically Offered: Spring only

Provides students with an understanding of the unique contours of leadership throughout the African Diaspora through an interdisciplinary approach to understanding particular problems, necessities and styles of leadership. Examines leaders and leadership roles within the African Diaspora with an emphasis on a variety of positions and contexts in the areas of politics, religion, art, and education, including the international, national, and local community (grassroots) arenas.

ETHN 72. Black Images in Popular Culture. 3 Units
Term Typically Offered: Fall, Spring

This course is designed as a survey of the Black image within popular culture. Students will interrogate the roots of African American stereotypes within North American culture. Through an understanding of this history, we will assess how these stereotypes have evolved over time and the role they have played in constructing and positioning African Americans in American society. Students examine the ways in which African Americans actively construct images of themselves for a variety of political and social purposes.

ETHN 94. CAMP Transition and Problem Solving. 3 Units
Term Typically Offered: Fall, Spring

Designed for CAMP students new to University life, form and functions. The three hour lecture/discussions per week are focused on assisting students with making a successful transition to the University.

Note: May be repeated once for credit.

Credit/No Credit

ETHN 96B. Contemporary Issues and Social Change. 3 Units
Term Typically Offered: Fall, Spring

Generation after generation, university students have been key constituents in movements for social change. From public demonstrations to research studies, colleges and universities afford countless opportunities for students to advocate for a better world. This course explores how students can utilize university resources to explore interests and concerns, hone academic skills and contribute to social change.

ETHN 98. Co-Curricular Activities. 1 - 3 Units
Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and intellectual concerns in Ethnic Studies.

Note: Recommended for students new to the university experience and students having completed fewer than 45 units of course work. May be repeated twice for total credits not to exceed 6 units.

Credit/No Credit

ETHN 100. Ethnic America. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)

Term Typically Offered: Fall, Spring, Summer

Through an interdisciplinary approach, introduces the four major American ethnic groups - Black, American Indian, Chicano, Asian American. Focuses on themes common to all four groups (racism, economic and political oppression) and demonstrates the varied contributions of each culture to American social and economic life.

ETHN 110. The Asian American Experience. 3 Units
General Education Area/Graduation Requirement: GE AREA D

Term Typically Offered: Fall, Spring

Survey of the experiences of various Asian groups in the U.S. from the mid-nineteenth century to present. The historical forces affecting the immigration and settlement patterns of Chinese, Japanese, Filipinos, Koreans, Asian Indians and Southeast Asians (Vietnamese, Cambodians, Laotians) will be compared and contrasted. Students will analyze the problems resulting from limited access to the social, political, and economic institutions of U.S. society.

ETHN 111. Southeast Asians in the US. 3 Units
Term Typically Offered: Spring only

Examines several issues and factors shaping the experiences of recent immigrant groups (Vietnamese, Mien, Hmong, Cambodians, Laotians) from Southeast Asia to the U.S. Focuses on the dynamic relationship between ethnicity, minority assignment and social integration as these affect the experiences of these immigrant groups.

ETHN 112. Contemporary Asian American Issues. 3 Units
General Education Area/Graduation Requirement: GE AREA D

Term Typically Offered: Fall, Spring

Examines several important social issues such as emerging communities, education, employment and occupations, anti-Asian violence, media images and stereotypes, families and identities, and political empowerment shaping the contemporary experiences of diverse Asian American groups.

ETHN 113. Asian American Communities. 3 Units
General Education Area/Graduation Requirement: GE AREA D

Term Typically Offered: Fall, Spring

Examination of the historical and contemporary experiences of various Asian American communities through active investigation. The concepts, methods, and theories commonly utilized in community research will be covered.

ETHN 114. Asian Americans and Globalization. 3 Units
General Education Area/Graduation Requirement: GE AREA D

Term Typically Offered: Fall, Spring

Examination of the Asian American immigration within the context of the larger Asian global migration. Emphasis will be placed on the period from the 16th century to the contemporary Asian global migration. A critical examination of the perspectives on the Pacific region and how the economic, social, political and historical forces affected migration and the formation of Asian global communities.
ETHN 115. Biracial and Multiracial Identity in the US. 3 Units
Term Typically Offered: Fall, Spring
Examination of biracial/multiracial populations, their social histories, social experiences and social identities within various sociological and social psychological theoretical frameworks. An exploration of the relationship biracial/multiracial groups have had, and continue to have, with the larger white majority and monoracially identified minorities.

ETHN 116. Asian American Politics and Public Policy. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Critical examination of the historical and contemporary political experiences of Asian Americans and their pursuits of immigration rights, citizenship, political identity, equality, freedom, and incorporation into the U.S. political system.

ETHN 117. Black Political Thought. 3 Units
Term Typically Offered: Spring only
To systematically and analytically introduce the predominant political trends and concepts presently entertained and harbored in the Black Community. A necessary adjunct to this dialogue is the racist theme in American society since on balance this is the matrix out of which the political alternatives and concepts grew.
Cross Listed: GOVT 117; only one may be counted for credit.

ETHN 118. Asian American Women. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall
Using an interdisciplinary approach, course offers a broad introduction to the principle values and traditions shaping Asian American women's lives in the U.S. Examines cultural diversity, gender inequality and conflicts between traditions and social practices through critical analysis of literature, film and cultural theories as expressions of identity. Topics covered include: cultural heritage and philosophies, intergenerational conflict, transnationalism, gender roles and socio-economic practices. Provides comprehensive understanding of principle factors governing Asian American women's lives at the nexus of Asian and American cultures.
Cross-listed: WOMS 118.

ETHN 119. The Filipino American Experience. 3 Units
Term Typically Offered: Fall, Spring
Overview of the Filipino American experience from the 16th century to the present. Immigration and settlement of Filipinos in the U.S. will be critically examined within the context of historical, social, economic, and political forces in American society. How the Filipino labor market status, race, class, and sex/gender relations affected the evolution and formation of Asian American communities will be critically examined.

ETHN 121. Hmong American Experiences. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only
Explores the multi-generational and multi-faceted experiences of Hmong Americans. Focusing on the historical and contemporary experiences of Hmong populations in the U.S., the course addresses important topics such as U.S. empire and militarism, war, community development, generational differences, health, gender, sexuality, media and representation, race relations, violence, and community engagement and empowerment.

ETHN 122. Sikh Americans and Globalization. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only
Examines the history and migration of Sikhs throughout the world, including the United States. Topics include the origin of Sikhism, Sikh history/religion/culture/social institutions and social relations, direct and secondary migration, race and ethnic relations, second-generation identity issues, and global diaspora/transnationalism.

ETHN 123. Asian Americans in Media and Popular Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only
A critique of dominant representations of Asian Americans in media and popular culture. The ways in which media and art are used by Asian Americans for social change will also be explored. Students create their own forms of media and art to accurately represent Asian Americans.

ETHN 125. Advanced Topics Race & Intersectionality in Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only
This course examines the social and material stakes in American cinematic representations of race, gender, and sexuality. Utilizing an intersectional framework that sees these social categories as always defined by one another, we discuss film as an artistic medium that is integral to the construction and contestation of ideas of social difference. In the process, we move beyond debates about positive or negative cinematic representations and instead discuss the ways that the art of film shapes and reflects social structures.

ETHN 130. Chicano/Mexican-American Experience. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer
Transmits knowledge and understanding of how racism confronts and divides American society. Attention will be given to the effects of racism on the experiences of Chicanos/Mexican Americans in American society.

ETHN 131. La Raza Studies. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring
Ethnohistorical analysis of La Raza Cosmica designed to convey crosscultural knowledge and understanding of peoples from Mexico, Cuba, Puerto Rico and Central America. Includes a comparative analysis of ethnic identity and a survey of socio-cultural, political and economic changes which have influenced U.S./Latin American policy and immigration patterns of Latinos to the U.S.

ETHN 132. La Mujer Chicana. 3 Units
Term Typically Offered: Fall, Spring
Critical analysis of the cultural influence that the family, community, religion, economic status and peers play upon the decisions, the values and roles held by Chicanas. An examination of the processes which have resulted in the change of attitudes, values and roles of the contemporary Chicana.
ETHN 133. Crosscultural Aging in America. 3 Units  
General Education Area/Graduation Requirement: Race & Ethnicity 
Graduation Requirement (RE) 
Term Typically Offered: Fall, Spring 
Examines aging crossculturally among ethnic groups in America. Emphasis will be placed on a review of the current literature on aging and ethnicity. Also examines changing roles and values in Black, Hispanic, Asian and Native American families.

ETHN 136. US Mexican Border Relations. 3 Units  
General Education Area/Graduation Requirement: GE AREA D 
Term Typically Offered: Fall, Spring 
Contemporary issues affecting the daily lives of people living in the U.S.-Mexico Borderlands. Theories, gender issues, political, economic and social relationships on both sides of the border will be examined.

ETHN 137. Race and Ethnicity in Latin America and Caribbean. 3 Units  
General Education Area/Graduation Requirement: GE AREA D 
Term Typically Offered: Fall, Spring 
Socio-economic, historical and contemporary issues affecting the various peoples living in the Latin America and the Caribbean. We will examine the intersection of race and ethnicity as well as class, gender, and identity, with attention paid to the contributions and presence of Asians, Africans, Europeans, and Indigenous peoples.

ETHN 140. Native American Experience. 3 Units  
General Education Area/Graduation Requirement: GE AREA D 
Term Typically Offered: Fall, Spring, Summer 
Advanced course in American Indian history, political and social relations, with emphasis upon current movements and problems of Native American life.

ETHN 141. Politics of the African Diaspora. 3 Units  
General Education Area/Graduation Requirement: Race & Ethnicity 
Graduation Requirement (RE), GE AREA D 
Term Typically Offered: Fall only 
Examines the social, political, cultural, and economic factors which have been important to the African diaspora. Examines how African people have responded to those factors, both in terms of formal, political thought, and in terms of political movements and political institutions. Examines thought and proactive, comparability to Africa, U.S., Caribbean, Central and South America. Cross Listed: GOVT 141; only one may be counted for credit.

ETHN 142. Native American Tribal Governments. 3 Units  
General Education Area/Graduation Requirement: GE AREA D 
Term Typically Offered: Fall, Spring 
Examines the regulatory powers that American Indian tribes possess over their peoples and territories. Students will acquire an understanding of tribal governmental history, internal affairs, jurisdictional conflicts, government relations, federal Indian public policy and economic development. The political aspects of tribal government administration and the emergence of self-governance as a foundation for self-determination, development and sustainability will be explored.

ETHN 143. American Indians, Film and Popular Culture. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2) 
Term Typically Offered: Spring only 
Students will examine various ways American Indians are imagined by popular culture through film, including drama, comedy and documentary. Beyond identifying and analyzing images of Indians as well as myths about their historical and contemporary circumstances, students will be challenged to investigate and understand the tenuous relationship between fact and fiction in popular culture.

ETHN 144. Native Voice, Memory, and Biography. 3 Units  
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X. 
General Education Area/Graduation Requirement: Writing Intensive 
Graduation Requirement (WI), Humanities (Area C2) 
Term Typically Offered: Fall, Spring 
Through the genre of biography and autobiography, students will examine the relevance of Native voice and memory in reference to the development of identity, cultural transformation, indigenous knowledge, political activism, and historical consciousness. Students will analyze the political, economic and cultural contexts in which Native voices and memories emerge.

ETHN 145. California Indian Studies. 3 Units  
Term Typically Offered: Fall, Spring 
This upper division course surveys California Indian Studies. The course is a place-based approach to anti-racist and anti-colonial movements through community centered learning and is a foundational overview of contemporary political, social, economic, and environmental representations through California Indian perspectives and epistemologies. Topics can include but are not limited to: tribal citizenship, self-determination, decolonization, sovereignty, cultural revitalization, and settler colonialism.

ETHN 146. Native American Oral Tradition and Storytelling. 3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2) 
Term Typically Offered: Fall, Spring 
Study of how Native American oral tradition and storytelling affect the experience of tribal expression. Examines the foundation of this tradition through an analysis and comparison of traditional and contemporary forms.

ETHN 147. Native American Women. 3 Units  
Term Typically Offered: Fall only 
Examination of the traditional, non-traditional, and contemporary roles of Native American women. The relationship of these roles to both Indian and non-Indian societies. An exploration of Native women’s issues through histories, literatures, and oral traditions, focusing on Native American women’s perspectives. Colonization has drastically impacted native women and the lives of their families, nations and communities. Resistance and de-colonization efforts by Native women will be illuminated and analyzed.
ETHN 152. American Indians, Sovereignty and US Laws. 3 Units
Term Typically Offered: Spring only
Examines the legal history developed between American Indians and Euro-Americans. Includes an introduction to events, circumstances, and relationships that developed social and legal concepts. There will be an examination of constitutional principles, laws and United State's policies from the early 1800's to the present and the impacts of these doctrines on American Indian sovereign powers. The students will acquire a basic understanding of the sources of political conflict in contemporary American Indian communities and American society.

ETHN 155. Genocide and Holocaust Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer
Examines genocide cases, such as the Armenian genocide, the Jewish Holocaust, the genocide of Roma, the Cambodian "Killing Fields", genocide in East Timor, ethnic cleansing in Bosnia, the genocide of the Tutsi in Rwanda and genocide in the Darfur region of Sudan, as well as the genocide of Native Americans, and other indigenous peoples. Addresses causes of, and responses to, genocide around the world, especially in Africa, Asia and Latin America. This phenomenon is examined historically, descriptively, comparatively and theoretically.

ETHN 156. Indigenous People. 3 Units
Term Typically Offered: Fall, Spring
Common existential experiences of indigenous people all over the world namely the Batwa and Pygmies in Central Africa, the Khoisan of Southern Africa, the Berber in Northern Africa, the Sami in Northern Europe, the Basque in France and Spain, the Hawaiians in the Pacific, the Ainu of Japan, the Aborigines in Australia, and Native Americans in the Americas.

ETHN 161. Chicano/Latino Politics and Public Policy. 3 Units
Term Typically Offered: Fall, Spring
Explores the historical and contemporary development of Chicano/Latino political activity in the United States. Will review essential components of the U.S. political system and examines relevant theories and concepts that have impacted public policy debate related to education, employment, health, housing, immigration, and income inequity. Primarily focuses on the political history and present day circumstances of the three largest Latino groups, Mexican Americans, Puerto Ricans, and Cuban Americans.

ETHN 166. American Indigenous Families: Issues and Perspectives. 3 Units
Term Typically Offered: Fall, Spring
Application of research and theory specific to Latino/Chicano and American Indian families; strategies for applying this knowledge to areas of service, therapy, policy, and education. Lecture/discussion, internet enhancement.
Cross Listed: FACS 166A; only one may be counted for credit.

ETHN 167. Asian American Families: Issues and Perspectives. 3 Units
Term Typically Offered: Fall, Spring
Family is an adaptable and changing institution of society. Research and theory on Asian American families will be highlighted with an emphasis on applying the information to areas of service, therapy, policy, and education. Experiences of various Asian groups in the U. S. will be compared.
Cross Listed: FACS 166B; only one may be counted for credit.

ETHN 170. Pan African Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Investigation into the subjective aspects of Pan African Studies (Black Studies). Covers such topical areas as the struggle by Black Americans for education, the genesis of the Black Studies movement, Black culture, institutional change, etc. The very nature of the course permits the coverage of a broad range of subject matter. Students are encouraged to take specific courses offered by the Pan African Studies program for more extensive investigation.

ETHN 171. African Religions and Philosophies. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Study of the African's concept of God with particular emphasis on His works, His relationship to His creations, and His worship. Also covers the concepts of evil, ethics, justice and various metaphysical ideas.

ETHN 172. Black Women In America. 3 Units
Term Typically Offered: Spring only
Examines the historical and social forces that shape the lives of Black women. Examines the Black woman's role in the family, community, work force and society in general.

ETHN 173. The Black Family in the United States. 3 Units
Term Typically Offered: Fall, Spring
Using the interdisciplinary approach, several institutional factors affecting the structure, evolution, and function of the Black Family unit in the U.S. will be studied. Permits a broad, yet systematic, examination of the Black Family in order to understand the several dynamics affecting the Black Family in particular and Black Americans in general.

ETHN 177. Topics In African Studies. 3 Units
Term Typically Offered: Fall, Spring
Special topics in African studies.

ETHN 177A. Genocide and Human Rights: Africa. 3 Units
Term Typically Offered: Fall only
This course focuses on the human rights abuses and Genocides that occurred in colonial and post-colonial Africa. It explores Genocide in Rwanda, Darfur, Namibia, and mass killings in Congo. It examines Campaigns of cultural Genocide, ideological pressure, and the involvement of former colonial powers in mass killings. Different approaches of conflict resolution such as the South African Truth and Reconciliation model will be examined. Causes and conditions of Genocide will be interpreted through interdisciplinary literature.

ETHN 179. Black Music and Black Consciousness. 3 Units
Term Typically Offered: Fall only
Provides students with an understanding of the essential role Black music assumes in the development of people of African descent throughout the Black Diaspora. Major topics include the historical development of Black music, the role of music in Black resistance and other forms of political behavior, the economic exploitation of Black music and the Black musician and the influence of globalization.
ETHN 180A. Forms of African-American Poetry. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Focuses on four or more African-American poets, representing a historical succession of literary periods.

ETHN 180B. Forms African-Am Fiction. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Focuses on four or more African-American writers of fiction, surveying texts representing a historical succession of literary periods.

ETHN 181. Cinematic Representations of Pan African Identities. 3 Units
This course is designed as an intensive survey of African American cinema that engages questions of history, culture, politics and the overall function of race and representation in American society. Our focus in this class is to understand Pan African filmmakers and their respective films. We will focus on cultural factors intrinsic to Pan African societies and how cinema fits into this context, as well as how issues of gender, sexuality and class impact the films.

ETHN 182. Protest in Hip Hop. 3 Units
This course is designed to be an intensive survey of the evolution of hip hop as a form of social protest that developed into a global cultural movement. The course draws parallels from hip hop's historical function with past and present U.S. social movements advocating for social justice, including the recent #BlackLivesMatter movement. Students will also examine cultural studies theoretical concepts analyzing mainstream's exploitation and marginalization of race, class, gender and sexuality representations in hip hop.

ETHN 183. Research in Ethnic Studies. 3 Units
Prerequisite(s): One upper-division Ethnic Studies course.
Term Typically Offered: Fall, Spring
Designed to provide students with contemporary theoretical knowledge and practical skills for conducting research in the African American, Asian American, Chicano/Latino, and Native American communities. Methodology which addresses issues and research perspectives distinctly germane to researching a targeted community is examined.

ETHN 195A. Ethnic Studies Fieldwork. 1 Unit
Prerequisite(s): Ethnic Studies majors only
Corequisite(s): ETHN 195B
Term Typically Offered: Fall, Spring
Allow students, with faculty supervision, to work closely with the ethnic minority communities. Students may work with a community agency, community organization, or other site with instructor approval.
Credit/No Credit

ETHN 195B. Ethnic Studies Seminar. 2 Units
Prerequisite(s): Ethnic Studies majors only
Corequisite(s): ETHN 195A
Term Typically Offered: Fall, Spring
Seminar discussions designed to synthesize and assess knowledge in Ethnic Studies courses applied to fieldwork experiences.

ETHN 198. Co-Curricular Activities. 1 - 3 Units
Term Typically Offered: Fall, Spring
Co-curricular activities related to the subject matter and intellectual concerns in Ethnic Studies. For example, students may earn ETHN 198 credits by participating in Ethnic Studies classes as tutors and/or section or discussion leaders; teaching as voluntary instructors or tutors in courses offered by community organizations.
Note: May be repeated twice for total credits not to exceed 6 units.
Credit/No Credit

ETHN 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Admission requires approval of the faculty member under whom the individual work is to be conducted, the appropriate program director and the Chair of Ethnic Studies.
Credit/No Credit

ETHN 203. Contemporary Ethnic Studies Issues. 3 Units
Prerequisite(s): MA Education (Multicultural Education) Students only.
Term Typically Offered: Fall only
Examines important social issues that shape the contemporary experience of African Americans, Asian Americans, Latinx/Chicano, and Native Americans. Social issues such as: 1) Discrimination and violence, 2) Economic inequality (employment, income, wealth, retirement), 3) Educational challenges, and 4) Global context of race and class inequality.

ETHN 204. Foundations & Theories. 3 Units
Prerequisite(s): MA in Education (Multicultural Education) students only.
Term Typically Offered: Spring only
Foundations and theories in Ethnic Studies, identifies, analyzes, and critically examines the experience of African Americans, Asian Americans, Latinx/Chicano, and Native Americans.
Note: This course is a lecture/discussion that is 45 hours, 3-unit course offered in eight weeks (including several Saturdays).

ETHN 299. Special Problems/Individual Study. 3 Units
Term Typically Offered: Fall, Spring
Open to classified and unclassified graduate students. Allow qualified students to explore topics, issues, and subjects pertinent to ethnic groups in the U.S.
Credit/No Credit

BA in Ethnic Studies (Asian American Studies)

Units required for Major: 36
Total units required for BA: 120
Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ETHN 11</td>
<td>Introduction to Ethnic Studies</td>
<td>3</td>
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Required Upper Division Courses (21 Units)

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<tr>
<th>Code</th>
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<th>Units</th>
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<tbody>
<tr>
<td>ETHN 100</td>
<td>Ethnic America</td>
<td>3</td>
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<tr>
<td>ETHN 110</td>
<td>The Asian American Experience</td>
<td>3</td>
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<tr>
<td>ETHN 130</td>
<td>Chicano/Mexican-American Experience</td>
<td>3</td>
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<tr>
<td>or ETHN 131</td>
<td>La Raza Studies</td>
<td>3</td>
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<tr>
<td>ETHN 140</td>
<td>Native American Experience</td>
<td>3</td>
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<tr>
<td>ETHN 170</td>
<td>Pan African Studies</td>
<td>3</td>
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<tr>
<td>ETHN 194</td>
<td>Research in Ethnic Studies</td>
<td>3</td>
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<tr>
<td>ETHN 195A</td>
<td>Ethnic Studies Fieldwork</td>
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<tr>
<td>ETHN 195B</td>
<td>Ethnic Studies Seminar</td>
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Concentration Electives (12 Units) 2

Select one of the following Concentrations: 12

- Asian American Studies
- Chicana/o Studies
- General
- Native-American Studies
- Pan African Studies
- Teachers in Bilingual Education
- Teachers in Urban Settings

Total Units 36

1 Course also satisfies General Education (GE)/Graduation Requirement.

2 Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.

Notes:
- A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.

Concentration in Asian American Studies (12 units)

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<tr>
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<tbody>
<tr>
<td>ETHN 111</td>
<td>Southeast Asians in the US</td>
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<tr>
<td>ETHN 112</td>
<td>Contemporary Asian American Issues</td>
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<td>ETHN 113</td>
<td>Asian American Communities</td>
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<td>ETHN 114</td>
<td>Asian Americans and Globalization</td>
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<td>Asian American Families: Issues and Perspectives</td>
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Total Units 12

General Education Requirements 1

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<tr>
<th>Code</th>
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<tr>
<td>Area A: Basic Subjects (9 Units)</td>
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<tr>
<td>A1 - Oral Communication</td>
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<td>A2 - Written Communication</td>
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<tr>
<td>A3 - Critical Thinking</td>
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<tr>
<td>Area B: Physical Universe and Its Life Forms (10 Units)</td>
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<tr>
<td>B1 - Physical Science</td>
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<tr>
<td>B2 - Life Forms</td>
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<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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<td>B4 - Math Concepts</td>
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<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
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<tr>
<td>C1 - Arts</td>
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<tr>
<td>C2 - Humanities</td>
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<tr>
<td>C1/C2 - Area C Course</td>
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<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td>Area D: The Individual and Society (6 Units)</td>
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<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements. 2</td>
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Area E: Understanding Personal Development (3 Units)
About the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

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<td>ETHN 170</td>
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<td>ETHN 194</td>
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<tr>
<td>ETHN 195A</td>
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<td>1</td>
</tr>
<tr>
<td>ETHN 195B</td>
<td>Ethnic Studies Seminar</td>
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</table>

**Concentration Electives (12 Units)**

Select one of the following Concentrations:

- Asian American Studies
- Chicana/o Studies
- General
- Native-American Studies
- Pan African Studies
- Teachers in Bilingual Education
- Teachers in Urban Settings

**Total Units** 36

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.

**Notes:**

- A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.

### Concentration in Chicana/o Studies (12 units)

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ANTH 106</td>
<td>Culture and Personality of the Chicano Child</td>
<td>3</td>
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</table>

**Concentration Requirements (12 Units)**

Select four courses from the following:

- ANTH 106 Culture and Personality of the Chicano Child

### BA in Ethnic Studies (Chicanax/Latinx Studies)

Units required for Major: 36  
Total units required for BA: 120

### Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

### Program Requirements

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<tbody>
<tr>
<td>ETHN 11</td>
<td>Introduction to Ethnic Studies</td>
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<tr>
<td>ETHN 100</td>
<td>Ethnic America</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 110</td>
<td>The Asian American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 130</td>
<td>Chicano/Mexican-American Experience</td>
<td>3</td>
</tr>
<tr>
<td>or ETHN 131</td>
<td>La Raza Studies</td>
<td></td>
</tr>
<tr>
<td>ETHN 140</td>
<td>Native American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 170</td>
<td>Pan African Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 194</td>
<td>Research in Ethnic Studies</td>
<td>3</td>
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<td>ETHN 195A</td>
<td>Ethnic Studies Fieldwork</td>
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<tr>
<td>ETHN 195B</td>
<td>Ethnic Studies Seminar</td>
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**Concentration Electives (12 Units)**

Select one of the following Concentrations:

- Asian American Studies
- Chicana/o Studies
- General
- Native-American Studies
- Pan African Studies
- Teachers in Bilingual Education
- Teachers in Urban Settings

**Total Units** 36

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.

**Notes:**

- A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.
**General Education Requirements**

**Area A: Basic Subjects (9 Units)**
- **A1** - Oral Communication 3
- **A2** - Written Communication 3
- **A3** - Critical Thinking 3

**Area B: Physical Universe and Its Life Forms (10 Units)**
- **B1** - Physical Science 3
- **B2** - Life Forms 3
- **B3** - Lab (Note: Lab experience to be taken with one of the following: 1
  - **B1**, **B2** or **B5**
- **B4** - Math Concepts 3
- **B5** - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.

**Area C: Arts and Humanities (12 Units)**
- **C1** - Arts 3
- **C2** - Humanities 3

**C1/C2 - Area C Course**
- **C1/C2** - Area C Course - Take upper-division course to complete Area & upper division requirements.

**Area D: The Individual and Society (3 Units)**
- **D** - Course 3

**Area E: Understanding Personal Development (3 Units)**
- **E** - Course 3

**Area F: Ethnic Studies**
- **F** - Course

**Total Units** 37

**Graduation Requirements**

**Graduation Requirements (required by CSU) (6 Units)**
- American Institutions: U.S. History 3
- American Institutions: U.S. Constitution & CA Government 3
- Writing Intensive (WI) 2 0

**Graduation Requirements (required by Sacramento State) (9 Units)**
- English Composition II 3
- Race and Ethnicity in American Society (RE) 2 0
- Foreign Language Proficiency Requirement 3 6

**Total Units** 37

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies GE.

3. If not satisfied before entering Sacramento State, it may be satisfied by the Academic Advising Center online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

BA in Ethnic Studies (General)

Units required for Major: 36
Total units required for BA: 120
Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ETHN 11</td>
<td>Introduction to Ethnic Studies ¹</td>
<td>3</td>
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<tr>
<td>ETHN 100</td>
<td>Ethnic America ²</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 110</td>
<td>The Asian American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 130</td>
<td>Chicano/Mexican-American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 194</td>
<td>Research in Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 195A</td>
<td>Ethnic Studies Fieldwork</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 195B</td>
<td>Ethnic Studies Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

Concentration Electives (12 Units) ²

Select one of the following Concentrations: 12

- Asian American Studies
- Chicana/o Studies
- General
- Native-American Studies
- Pan African Studies
- Teachers in Bilingual Education
- Teachers in Urban Settings

Total Units 36

<table>
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<td>Southeast Asians in the US</td>
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<td>ETHN 112</td>
<td>Contemporary Asian American Issues</td>
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<td>ETHN 113</td>
<td>Asian American Communities</td>
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<td>ETHN 114</td>
<td>Asian Americans and Globalization</td>
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<td>ETHN 115</td>
<td>Biracial and Multiracial Identity in the US</td>
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<td>ETHN 116</td>
<td>Asian American Politics and Public Policy</td>
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<td>ETHN 117</td>
<td>Black Political Thought</td>
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<td>ETHN 118</td>
<td>Asian American Women</td>
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<td>ETHN 121</td>
<td>Hmong American Experiences</td>
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<td>ETHN 122</td>
<td>Sikh Americans and Globalization</td>
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<td>ETHN 133</td>
<td>Crosscultural Aging in America</td>
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<td>ETHN 136</td>
<td>US Mexican Border Relations</td>
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<td>ETHN 137</td>
<td>Race and Ethnicity in Latin America and Caribbean</td>
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<td>ETHN 141</td>
<td>Politics of the African Diaspora</td>
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<td>ETHN 142</td>
<td>Native American Tribal Governments</td>
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<td>ETHN 143</td>
<td>American Indians, Film and Popular Culture</td>
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<td>Native Voice, Memory, and Biography</td>
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<td>Native American Oral Tradition and Storytelling</td>
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<td>ETHN 151</td>
<td>Native American Women</td>
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<td>ETHN 152</td>
<td>American Indians, Sovereignty and US Laws</td>
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<td>ETHN 155</td>
<td>Genocide and Holocaust Studies</td>
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<tr>
<td>ETHN 156</td>
<td>Indigenous People</td>
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<td>ETHN 167</td>
<td>Asian American Families: Issues and Perspectives</td>
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<td>African Religions and Philosophies</td>
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<td>Black Women In America</td>
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<td>ETHN 173</td>
<td>The Black Family in the United States</td>
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<tr>
<td>ETHN 177</td>
<td>Topics In African Studies</td>
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<td>ETHN 179</td>
<td>Black Music and Black Consciousness</td>
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<tr>
<td>ETHN 181</td>
<td>Cinematic Representations of Pan African Identities</td>
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Total Units 12

General Education Requirements ¹

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<tr>
<td>A1</td>
<td>Oral Communication</td>
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<td>A2</td>
<td>Written Communication</td>
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<td>A3</td>
<td>Critical Thinking</td>
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</table>

Area A: Basic Subjects (9 Units)

Area B: Physical Universe and Its Life Forms (10 Units)
Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<th>Units</th>
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<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (6 Units)</td>
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<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
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<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
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<td></td>
<td>Writing Intensive (WI)</td>
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<td></td>
<td>Graduation Requirements (required by Sacramento State) (9 Units)</td>
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<td>English Composition II</td>
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<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
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<tr>
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<td>Foreign Language Proficiency Requirement</td>
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1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies Graduation Requirement.

3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html.

BA in Ethnic Studies (Native-American Studies)

Units required for Major: 36
Total units required for BA: 120

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze and evaluate the historical, cultural, and social factors that have shaped American society. Ethnic Studies encourages everyone to understand the multicultural experiences of African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze and evaluate the historical, cultural, and social factors that have shaped American society. Ethnic Studies encourages everyone to understand the multicultural experiences of African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

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<tr>
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<td>Required Lower Division Course (3 Units)</td>
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<td>ETHN 11</td>
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<td>Required Upper Division Courses (21 Units)</td>
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<td>ETHN 100</td>
<td>Ethnic America</td>
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<td>ETHN 110</td>
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<td>ETHN 130</td>
<td>Chicano/Mexican-American Experience</td>
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</tr>
<tr>
<td>or ETHN 131</td>
<td>La Raza Studies</td>
<td>3</td>
</tr>
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<td>ETHN 140</td>
<td>Native American Experience</td>
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<td>ETHN 170</td>
<td>Pan African Studies</td>
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<td>Research in Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 195A</td>
<td>Ethnic Studies Fieldwork</td>
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<tr>
<td>ETHN 195B</td>
<td>Ethnic Studies Seminar</td>
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<td></td>
<td>Concentration Electives (12 Units)</td>
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<td>Select one of the following Concentrations:</td>
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<td>Asian American Studies</td>
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<td>Chicana and Latinx Studies</td>
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<td>General</td>
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<td>Native-American Studies</td>
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</table>

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.
Pan African Studies
Teachers in Bilingual Education
Teachers in Urban Settings

Total Units  36

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.

Notes:
• A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.

Concentration in Native-American Studies (12 units)

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<tr>
<td>ETHN 128</td>
<td>Indians of California</td>
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<td>ANTH 135</td>
<td>Indians of North America</td>
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<td>ENGL 180W</td>
<td>Native American Literature</td>
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<td>ENV 163</td>
<td>Ethnecology</td>
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<td>ETHN 142</td>
<td>Native American Tribal Governments</td>
<td>3</td>
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<td>ETHN 143</td>
<td>American Indians, Film and Popular Culture</td>
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<td>ETHN 145</td>
<td>Native Voice, Memory, and Biography</td>
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<td>ETHN 150</td>
<td>Native American Oral Tradition and Storytelling</td>
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<td>ETHN 151</td>
<td>Native American Women</td>
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<td>ETHN 152</td>
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<td>HIST 171A</td>
<td>American Indian History to 1840</td>
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<td>HIST 171B</td>
<td>American Indian History since 1840</td>
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<td>HIST 185</td>
<td>California Indian History</td>
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Total Units  12

General Education Requirements 1

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<td>A1</td>
<td>Oral Communication</td>
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<tr>
<td>A2</td>
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<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
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<tr>
<td>B1</td>
<td>Physical Science</td>
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<tr>
<td>B2</td>
<td>Life Forms</td>
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<td>B3</td>
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<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
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<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
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Area C: Arts and Humanities (12 Units)

<table>
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<tr>
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<td>Arts</td>
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<td>C2</td>
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<td>C1/C2</td>
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C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.

Area D: The Individual and Society (6 Units)

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<tr>
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<td>Area D Course</td>
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Area D Course - Take upper-division course to complete Area & upper division requirements.

Area E: Understanding Personal Development (3 Units)

<table>
<thead>
<tr>
<th>Area E Course</th>
<th>Units</th>
</tr>
</thead>
</table>

Area E Course | 3 |

Total Units  43

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

Graduation Requirements 1

<table>
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<th>Code</th>
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<tbody>
<tr>
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<td>Physical Science</td>
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</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
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<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

Area C: Arts and Humanities (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
</tbody>
</table>

C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.

Area D: The Individual and Society (6 Units)

<table>
<thead>
<tr>
<th>Area D Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>Area D Course</td>
<td>0</td>
</tr>
</tbody>
</table>

Area D Course - Take upper-division course to complete Area & upper division requirements.

Area E: Understanding Personal Development (3 Units)

<table>
<thead>
<tr>
<th>Area E Course</th>
<th>Units</th>
</tr>
</thead>
</table>

Area E Course | 3 |

Total Units  43

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement.

3 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

BA in Ethnic Studies (Pan African Studies)

Units required for Major: 36
Total units required for BA: 120
Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHN 11</td>
<td>Introduction to Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 100</td>
<td>Ethnic America</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 110</td>
<td>The Asian American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 130</td>
<td>Chicano/Mexican-American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 195A</td>
<td>Ethnic Studies Fieldwork</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 195B</td>
<td>Ethnic Studies Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

Concentration Electives (12 Units)

Select one of the following Concentrations:

- Asian American Studies
- Chicana/o Studies
- Native-American Studies
- Pan African Studies
- Teachers in Bilingual Education
- Teachers in Urban Settings

Total Units: 36

1 Course also satisfies General Education (GE)/Graduation Requirement.

2 Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.

Notes:
- A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.

Concentration in Pan African Studies (12 units)

Select four courses from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 101</td>
<td>Cultural Diversity</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 161</td>
<td>African Cultures and Societies</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 180F</td>
<td>Major African-American Authors</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 115</td>
<td>Biracial and Multiracial Identity in the US</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 117</td>
<td>Black Political Thought</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 133</td>
<td>CROSSCULTURAL AGING IN AMERICA</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 141</td>
<td>Politics of the African Diaspora</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 155</td>
<td>Genocide and Holocaust Studies</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 156</td>
<td>Indigenous People</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 172</td>
<td>Black Women In America</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 173</td>
<td>The Black Family in the United States</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 177</td>
<td>Topics In African Studies</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 179</td>
<td>Black Music and Black Consciousness</td>
<td>1</td>
</tr>
<tr>
<td>HIST 142</td>
<td>History of Women in Africa</td>
<td>1</td>
</tr>
<tr>
<td>HIST 143A</td>
<td>Middle Eastern History to 1800</td>
<td>1</td>
</tr>
<tr>
<td>HIST 176</td>
<td>African Cultural Heritage in the Americas</td>
<td>1</td>
</tr>
<tr>
<td>HIST 177</td>
<td>The African-American Experience, 1603-Present</td>
<td>1</td>
</tr>
<tr>
<td>THEA 132</td>
<td>African-Caribbean Dance</td>
<td>1</td>
</tr>
<tr>
<td>THEA 140</td>
<td>Black Drama in the African Diaspora</td>
<td>1</td>
</tr>
<tr>
<td>THEA 170</td>
<td>African American Theatre and Culture</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units: 12

General Education Requirements

Area A: Basic Subjects (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area B: Physical Universe and Its Life Forms (13 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area C: Arts and Humanities (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1 - Arts</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

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Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHN 11</td>
<td>Introduction to Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 100</td>
<td>Ethnic America</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 110</td>
<td>The Asian American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 130</td>
<td>Chicano/Mexican-American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 131</td>
<td>La Raza Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 140</td>
<td>Native American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 170</td>
<td>Pan African Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 194</td>
<td>Research in Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 195A</td>
<td>Ethnic Studies Fieldwork</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 195B</td>
<td>Ethnic Studies Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

Select one of the following Concentrations: 12

- Asian American Studies
- Chicana/o Studies
- General
- Native-American Studies
- Pan African Studies
- Teachers in Bilingual Education
- Teachers in Urban Settings

Total Units 36

1 Course also satisfies General Education (GE)/Graduation Requirement.

BA in Ethnic Studies (Teachers in Bilingual Education)

Units required for Major: 36
Total units required for BA: 120
Concentration in Teachers in Bilingual Education (12 units)

Select 12 units of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 100A &amp; EDUC 100B</td>
<td>Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab</td>
<td>12</td>
</tr>
<tr>
<td>EDUC 170</td>
<td>Introduction to Bilingual Education: Policies, Principles, Programs, and Practices</td>
<td></td>
</tr>
<tr>
<td>EDUC 171</td>
<td>Bilingualism in the Classroom</td>
<td></td>
</tr>
<tr>
<td>EDUC 199</td>
<td>Special Problems</td>
<td></td>
</tr>
<tr>
<td>PUBH 136</td>
<td>School Health Education</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units**: 12

**Notes:**
- A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Fan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.
- Required in Major; also satisfies GE.

General Education Requirements ¹

<table>
<thead>
<tr>
<th>Area A: Basic Subjects (9 Units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area B: Physical Universe and Its Life Forms (10 Units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4 - Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area C: Arts and Humanities (12 Units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1 - Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2 - Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area D: The Individual and Society (3 Units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area E: Understanding Personal Development (3 Units)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area E Course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Notes:**
- To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).
- To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).
- **Graduation Requirements**
  - American Institutions: U.S. History | 3 |
  - American Institutions: U.S. Constitution & CA Government | 3 |
  - Writing Intensive (WI) ² | 0 |
  - **Graduation Requirements (required by Sacramento State) (9 Units)**
    - English Composition II | 3 |
    - Race and Ethnicity in American Society (RE) ² | 0 |
    - Foreign Language Proficiency Requirement ³ | 6 |

**Notes:**
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**BA in Ethnic Studies (Teachers in Urban Settings)**

Units required for Major: 36

**Total units required for BA**: 120

**Program Description**

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os/Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories...
about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

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Note: Program advising and other information can be obtained from the Ethnic Studies Department.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHN 11</td>
<td>Introduction to Ethnic Studies ¹</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 100</td>
<td>Ethnic America ²</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 110</td>
<td>The Asian American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 130</td>
<td>Chicano/Mexican-American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 131</td>
<td>La Raza Studies</td>
<td></td>
</tr>
<tr>
<td>ETHN 140</td>
<td>Native American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 170</td>
<td>Pan African Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 194</td>
<td>Research in Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 195A</td>
<td>Ethnic Studies Fieldwork</td>
<td>1</td>
</tr>
<tr>
<td>ETHN 195B</td>
<td>Ethnic Studies Seminar</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Concentration Electives (12 Units)</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following Concentrations:

- Asian American Studies
- Chicana/o Studies
- General
- Native-American Studies
- Pan African Studies
- Teachers in Bilingual Education
- Teachers in Urban Settings

Total Units: 36

¹ Course also satisfies General Education (GE)/Graduation Requirement.

² Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.

Notes:
- A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.

### Concentration in Teacher in Urban Settings (12 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration Requirements (14 Units)</td>
<td></td>
</tr>
</tbody>
</table>

Select 12 units of the following: 12

### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Area B: Physical Universe and Its Life Forms (10 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Area C: Arts and Humanities (12 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Area D: Individual and Society (3 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Area E: Understanding Personal Development (3 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Area F: Ethnic Studies</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 37

¹ To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

² Required in Major; also satisfies GE.
Certificate in Pan African Studies

Units required for Certificate: 24

Program Description

A certificate in Pan African Studies is available with special permission through the Ethnic Studies Department.

Eligibility Information

Students enrolled in the Cooper-Woodson College Enhancement Program are eligible for this certificate. The Director of Pan African Studies certifies those eligible for this certificate.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHN/POLS 141</td>
<td>Politics of the African Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 170</td>
<td>Pan African Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 172</td>
<td>Black Women In America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 7</td>
<td>History of African Civilizations</td>
<td>3</td>
</tr>
<tr>
<td>or HIST 141</td>
<td>History of Africa Since 1800</td>
<td>3</td>
</tr>
<tr>
<td>HIST 142</td>
<td>History of Women in Africa</td>
<td>3</td>
</tr>
<tr>
<td>HIST 177</td>
<td>The African-American Experience, 1603-Present</td>
<td>3</td>
</tr>
<tr>
<td>Select a course in African culture</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select a course in African society</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 24

Minor in Asian American Studies

Units required for Minor: 21

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

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Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHN 11</td>
<td>Introduction to Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td>or ETHN 14</td>
<td>Introduction to Asian American Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 110</td>
<td>The Asian American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 112</td>
<td>Contemporary Asian American Issues</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 113</td>
<td>Asian American Communities</td>
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Select three of the following:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ETHN 111</td>
<td>Southeast Asians in the US</td>
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</tr>
<tr>
<td>ETHN 114</td>
<td>Asian Americans and Globalization</td>
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</tr>
<tr>
<td>ETHN 115</td>
<td>Biracial and Multiracial Identity in the US</td>
<td></td>
</tr>
<tr>
<td>ETHN 116</td>
<td>Asian American Politics and Public Policy</td>
<td></td>
</tr>
<tr>
<td>ETHN/WOMS 118</td>
<td>Asian American Women</td>
<td></td>
</tr>
<tr>
<td>ETHN 119</td>
<td>The Filipino American Experience</td>
<td></td>
</tr>
<tr>
<td>ETHN 121</td>
<td>Hmong American Experiences</td>
<td></td>
</tr>
<tr>
<td>ETHN 122</td>
<td>Sikh Americans and Globalization</td>
<td></td>
</tr>
<tr>
<td>ETHN 167</td>
<td>Asian American Families: Issues and Perspectives</td>
<td></td>
</tr>
<tr>
<td>ETHN 194</td>
<td>Research in Ethnic Studies</td>
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<tr>
<td>ETHN 195A</td>
<td>Ethnic Studies Fieldwork</td>
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<tr>
<td>ETHN 195B</td>
<td>Ethnic Studies Seminar</td>
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Elective(s) approved by the Director of Asian American Studies

Total Units 21

1 See list below for a list of Department approved electives.

Elective List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHN 111</td>
<td>Southeast Asians in the US</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 112</td>
<td>Contemporary Asian American Issues</td>
<td>3</td>
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</table>
Minor in Chicanx and Latinx Studies

Units required for Minor: 21

Program Description
Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicanx and Latinx, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHN 30</td>
<td>Introduction to Chicano/Latino Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 130</td>
<td>Chicano/Mexican-American Experience</td>
<td>3</td>
</tr>
<tr>
<td>or ETHN 131</td>
<td>La Raza Studies 🔗</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 132</td>
<td>La Mujer Chicana</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 136</td>
<td>US Mexican Border Relations</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 137</td>
<td>Race and Ethnicity in Latin America and Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>or ETHN 161</td>
<td>Chicano/Latino Politics and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>Upper division electives approved by the Chicana/o Studies Program Director</td>
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</table>

| Total Units | 21 |

1 See list below for a list of Department approved electives.

Elective List

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<thead>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ANTH 106</td>
<td>Culture and Personality of the Chicano Child</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 121</td>
<td>Archaeology of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 143</td>
<td>Culture and Society in Mexico</td>
<td>3</td>
</tr>
<tr>
<td>ART 111</td>
<td>Latin American and Latino Art History 🔗</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 115</td>
<td>Biracial and Multiracial Identity in the US</td>
<td>3</td>
</tr>
<tr>
<td>HIST 135A</td>
<td>History Of Mexico To 1910</td>
<td>3</td>
</tr>
<tr>
<td>HIST 135B</td>
<td>Revolutionary and Modern Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 138A</td>
<td>Colonial Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 138B</td>
<td>Modern and Contemporary Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 183A</td>
<td>California History, 1542-1860</td>
<td>3</td>
</tr>
<tr>
<td>HIST 183B</td>
<td>California History, 1860-1970</td>
<td>3</td>
</tr>
<tr>
<td>POLS 147</td>
<td>Latin American Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td>SOC 118</td>
<td>Chicano Community 🔗</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 100</td>
<td>Introduction to the Study of Hispanic Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 110</td>
<td>Survey of Spanish Literature to 1800</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 111</td>
<td>Survey of Spanish Literature from 1800 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 113</td>
<td>Latin American Literature, Beginnings to Modernism</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 114</td>
<td>Latin American Literature, Modernism to Present</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 115</td>
<td>Magical Realism</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 121</td>
<td>Spanish For Professionals</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 130</td>
<td>Contemporary Mexican Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 134</td>
<td>The Short Story in Latin America</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 152</td>
<td>Civilization and Culture of Spain</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 153</td>
<td>Civilization and Culture of Mexico</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 156</td>
<td>Hispanic Folklore</td>
<td>3</td>
</tr>
<tr>
<td>THEA 173</td>
<td>Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present</td>
<td>3</td>
</tr>
<tr>
<td>THEA 173A</td>
<td>Chicano Theatre Background</td>
<td>3</td>
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</tbody>
</table>

Minor in Ethnic Studies

Units required for Minor: 21 with no more than 6 lower division units

Program Description
Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicanx and Latinx, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society.
positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

**Note:** Program advising and other information can be obtained from the Ethnic Studies Department.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ETHN 11</td>
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<td>3</td>
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<tr>
<td>ETHN 10</td>
<td>The Asian American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 130</td>
<td>Chicano/Mexican-American Experience</td>
<td>3</td>
</tr>
<tr>
<td>or ETHN 131</td>
<td>La Raza Studies ☞</td>
<td></td>
</tr>
<tr>
<td>ETHN 140</td>
<td>Native American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 170</td>
<td>Pan African Studies</td>
<td>3</td>
</tr>
<tr>
<td>Electives approved by the appropriate program director or chair¹</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Total Units:** 21

¹ See list below for a list of Department approved electives.

### Elective List

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ETHN 111</td>
<td>Southeast Asians in the US</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 112</td>
<td>Contemporary Asian American Issues</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 113</td>
<td>Asian American Communities</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 114</td>
<td>Asian Americans and Globalization</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 115</td>
<td>Biracial and Multiracial Identity in the US</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 116</td>
<td>Asian American Politics and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 117</td>
<td>Black Political Thought</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 118</td>
<td>Asian American Women</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 119</td>
<td>The Filipino American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 121</td>
<td>Hmong American Experiences</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 122</td>
<td>Sikh Americans and Globalization</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 133</td>
<td>Crosscultural Aging in America ☞</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 136</td>
<td>US Mexican Border Relations</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 137</td>
<td>Race and Ethnicity in Latin America and Caribbean</td>
<td>3</td>
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<tr>
<td>ETHN 141</td>
<td>Politics of the African Diaspora ☞</td>
<td>3</td>
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<tr>
<td>ETHN 142</td>
<td>Native American Tribal Governments</td>
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<tr>
<td>ETHN 143</td>
<td>American Indians, Film and Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 145</td>
<td>Native Voice, Memory, and Biography ☞</td>
<td>3</td>
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<tr>
<td>ETHN 150</td>
<td>Native American Oral Tradition and Storytelling</td>
<td>3</td>
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<tr>
<td>ETHN 151</td>
<td>Native American Women</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 152</td>
<td>American Indians, Sovereignty and US Laws</td>
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<td>ETHN 155</td>
<td>Genocide and Holocaust Studies</td>
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<tr>
<td>ETHN 156</td>
<td>Indigenous People</td>
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<tr>
<td>ETHN 167</td>
<td>Asian American Families: Issues and Perspectives</td>
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<td>ETHN 171</td>
<td>African Religions and Philosophies</td>
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<td>ETHN 172</td>
<td>Black Women In America</td>
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<td>ETHN 173</td>
<td>The Black Family in the United States</td>
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<tr>
<td>ETHN 177</td>
<td>Topics In African Studies</td>
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</tr>
<tr>
<td>ETHN 179</td>
<td>Black Music and Black Consciousness</td>
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</table>

### Minor in Native American Studies

**Units required for Minor:** 21

### Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

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**Note:** Program advising and other information can be obtained from the Ethnic Studies Department.

### Program Requirements

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<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ETHN 53</td>
<td>Introduction to Native American Studies</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 140</td>
<td>Native American Experience</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 152</td>
<td>American Indians, Sovereignty and US Laws</td>
<td>3</td>
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<tr>
<td>Electives approved by Native American Studies Program Director¹</td>
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</table>

**Total Units:** 21

¹ See list below for a list of Department approved electives.

### Elective List

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<thead>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
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<td>Indians of California</td>
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<td>ANTH 135</td>
<td>Indians of North America</td>
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<td>ENGL 180W Native American Literature</td>
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<td>ENVS 163</td>
<td>Ethnoecology</td>
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<tr>
<td>ETHN 142</td>
<td>Native American Tribal Governments</td>
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</tr>
<tr>
<td>ETHN 143</td>
<td>American Indians, Film and Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 145</td>
<td>Native Voice, Memory, and Biography ☞</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 150</td>
<td>Native American Oral Tradition and Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>ETHN 151</td>
<td>Native American Women</td>
<td>3</td>
</tr>
<tr>
<td>HIST 171</td>
<td>American Indian Ethnohistory</td>
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<tr>
<td>HIST 185</td>
<td>California Indian History</td>
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</table>

### Family and Consumer Sciences

*College of Social Sciences and Interdisciplinary Studies*
Department Description

The Department of Family and Consumer Sciences offers four distinct programs and one concentration. The focus of these programs is to enhance the skills and knowledge that will promote the well-being of individuals, families, and communities. Our programs and profession focus on individuals and families in order to achieve an optimum balance between people and their environments. The mission of Family and Consumer Sciences is to empower individuals and families to function interdependently in a global society.

Family and Consumer Science Education (Pre-Credential Single Subject Matter Program)

The major meets the California Career Technical Education (CTE) Curriculum Standards and Home Economics Teacher Preparation Standards of Quality and Effectiveness for Subject Matter Programs.

Graduates are prepared to enter a Single Subject Teaching Credential Program required to teach Family and Consumer Sciences/Home Economics in middle and high schools. Coursework includes Nutrition and Food, Fashion Merchandising & Management, and Family Studies & Human Development combined with an internship in a middle or high school in the Sacramento area.

Family Studies and Human Development

The major prepares students for careers in various human service fields. The program emphasizes an asset-based approach to understanding lifespan human development, family systems and family diversity. The major is approved by the National Council on Family Relations (NCFR) for academic programs in Family Life Education.

Certificate in Family Life Education

The goal of the certificate is to prepare students to provide family life education in a variety of settings such as schools, churches, youth programs, health care, and family service agencies. The certificate program is designed to cover the ten, family life education content areas delineated by the National Council on Family Relations NCFR. The certificate is not a teaching credential. In conjunction with a Bachelor or Master degree or a state teaching credential, it may be helpful in obtaining employment as a Family Life Educator.

Fashion Merchandising and Management

The major prepares students for careers in the global fashion industry, including management, marketing, buying, advertisement, promotion, manufacturing, sourcing, distribution, retailing, and many more. The program also emphasizes the contemporary and historical ways of meeting the economic, physiological, aesthetic, psychological, sociological, and cultural needs of consumers relative to fashion products.

The program offers a vast array of courses that cover different areas of the fashion industry. Students learn the basics of fashion by taking foundation courses. Upper division marketing classes allow students to become more familiar with the business side of fashion. Courses focusing on the basic design skills introduce students to the creative side of the industry. This program provides a well-rounded education that prepares students for jobs in any area of the fashion industry.

The Minor in Fashion Merchandising and Management provides students an understanding of the role fashion plays in social/cultural environment, business/economic environment, and natural environment. The minor is complementary to students pursuing careers in communication studies, psychology, journalism, marketing, entrepreneurship, management, business, art, and design.

Nutrition and Food

The major prepares students for careers in the field of nutrition, food management, community nutrition, and food sustainability. The program emphasizes the roles of nutrition and food in individual and family health, cultural and behavioral influences on food selection, and the management of commercial and noncommercial food systems.

The optional Concentration in Dietetics (Didactic Program in Dietetics) prepares students for supervised practice leading to eligibility for the Commission on Dietetic Registration credentialing exam to become a registered dietitian nutritionist (RDN), as well as to prepare students for graduate school and a variety of careers in clinical nutrition, community nutrition, private practice, food service administration, and food science.

The graduate program includes specialized coursework in nutrition science, advanced community nutrition, behavioral nutrition, and food and nutrition policy plus a wide array of interdisciplinary electives. Designed for career advancement in food access and nutrition education agencies and to complement Sacramento State’s Dietetic Internship for those on the path to becoming Registered Dietitian Nutritionists.

The Dietetic Internship administered by the Department is a post-baccalaureate, 42-week internship accepting 10 interns annually. This program provides full-time supervised practice at a variety of health care and community facilities.

The minor provides students an understanding of the role food and nutrition play in health and disease prevention. The minor could be a relevant addition to many majors.

Degree Programs

BS in Family and Consumer Science Education (Pre-Credential, Single Subject Matter Program)

BS in Family Studies and Human Development (p. 999)

BS in Fashion Merchandising and Management (p. 1000)

BS in Nutrition and Food (p. 1001)

BS in Nutrition and Food (Dietetics) (p. 1002)

Minor in Family and Consumer Sciences (p. 1004)

Minor in Fashion Merchandising and Management

Minor in Nutrition and Food (p. 1004)

MS in Nutrition and Food (p. 1005)

Certificate in Family Life Education

Certificate in Grocery Management

Accreditation

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Nutrition and Food Dietetics Concentration is also individually accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), the accrediting agency for the Academy of Nutrition
and Dietetics. The department also administers a Dietetics Internship (DI) program accredited by ACEND.

Notice to Students RE: Professional Licensure and Certification
California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features
• Faculty in Family and Consumer Sciences come from diverse educational backgrounds and expertise. Faculty members promote and integrate a holistic approach to understanding individuals and families while preparing students for professional careers or graduate study.
• All programs in the department are committed to reflecting in our study and in our practices the diverse populations with which our students will work, including diversity in ability, age, educational level, ethnicity, gender identity, immigration status, nationality, race, religion, sexual orientation, and socioeconomic status.
• The Department is equipped with laboratories for textiles, food, and teacher credentialing preparation courses.
• Support facilities include a Costume Collection gallery. Visit the virtual gallery at http://www.csus.edu/facs/.
• The Didactic Program in Dietetics (DPD) and the Dietetics Internship (DI) programs are accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND).
• The Family Studies and Human Development program is approved by the National Council on Family Relations for academic programs in Family Life Education.
• The Pre-Credential Single Subject Matter program in FACS Education is approved by the California Commission on Teacher Credentialing.
• Service Learning courses (FASH 146, FSHD 162, NUFD 117), Academic Internships (FACS 195A, FACS 195C, FSHD 195F), Education practica and other opportunities for Community Engaged Learning are a hallmark of our degree programs. These provide an opportunity for students to work under the supervision of a professional in business, education, government, or public service settings. Internships are planned a semester in advance with an adviser.
• The Department sponsors four student organizations for students to participate in professional development and community service related to their major programs.
• In addition to serving majors and minors, the Department provides several general education courses for other majors including classes that meet the graduation requirements for the writing intensive, and race and ethnicity categories.

Career Possibilities

**Fashion Merchandising and Management:** Buyer · Merchandiser · Marketing Manager · Retail Manager · Regional Manager · District Manager · Distributor · Sales Representative · Product Analyst · Sourcing Analyst · Quality Control Analyst · Inventory Specialist · Apparel Engineer · Fashion Coordinator · Stylist · Visual Merchandiser · Fashion Designer · Fashion Editor · Fashion Forecaster · Fashion Reporter · Magazine Editor

**Family Studies and Human Development:** Consumer and Family Resources · Community-Based Social Services · Community Education · Family Life Educator · Family Planning · Family Support Services Provider · Health Care and Family Wellness · Marriage and Family Enrichment · Parenting Educator · Prenatal and Maternity Services · Sexuality Educator · Youth Adviser · Child Life Specialist

**Nutrition and Food:** Nutrition and Health Educator · Community/ Public Health Nutrionist · Food Service Manager/Hospitality · Foodservice Inspector · Grocery Retailing · State Nutrition Program Assistant, Consultant, or Analyst · School Nutrition Services Specialist · Entrepreneur/Consultant · Nutrition Program Representative · University/ Medical Research Centers.

**Additional careers in Dietetics:** Registered Dietitian Nutritionist (RDN) · Nutrition and Dietetics Technician, Registered (NDTR) · Clinical Dietetics-Hospitals, Clinics, or other Health Care Facilities#Community and Public Health #Private Practice#Sports Nutrition#Corporate Wellness#University/Medical Centers#Research#Food and nutrition-related business and industries

**Family and Consumer Sciences Education (Pre-Credential Single Subject Program):** High school and middle school teacher · Extension specialist · Consultant in Home Economics Careers and Technology · Life Coach · Resources Specialist · Entrepreneur · Consumer Educator · Credit Counselor · California State Department of Education · FCCLA State Adviser.

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BRAUNSTEIN, NADINE
BUCHAN, WENDY
COOK, JERRY
GONZALEZ, HENRY
HANNA, LYNN
HYSON, DIANNE
KANG, MINJEONG
MOYLAN, J. ANN
MULASI, URVASHI
SHEN, DONG
FACS 100. Research: Methods and Application in Family and Consumer Sciences. 3 Units
**Prerequisite(s):** 6 FACS units completed. FACS majors only
**Term Typically Offered:** Fall, Spring, Summer

Study of methods and application of research in the field of Family and Consumer Sciences. Focus on scientific inquiry, methodology, evidence-based practice, interpretation of research results, program and project evaluation, and professional communication. Includes the examination of ethical practices, professional presentation skills, and technical writing skills.

FACS 140. Family Resource Management. 3 Units
**Term Typically Offered:** Fall, Spring

Management of resources in family systems. Interaction of families with other societal and environmental systems in acquiring and using resources to meet goals and other demands.

FACS 141. Family Finance. 3 Units
**Term Typically Offered:** Fall, Spring

Economic problems of and financial management by the individual and family. Topics include: income patterns, inflation, credit, contracts, housing, financial services, insurance, taxes, investments, retirement income planning.

FACS 168. Senior Seminar. 3 Units
**Prerequisite(s):** 21 FACS units.
**Term Typically Offered:** Fall, Spring

Designed to synthesize knowledge in Family and Consumer Sciences. Examination of the concentration in the major and career exploration. Analysis of public policy and ethical issues, professionalism and leadership strategies. Includes personal and professional competency assessment and development of an academic and professional portfolio.

FACS 195C. Internship. 1 - 3 Units
**Prerequisite(s):** Upper division status; instructor permission obtained in the preceding semester; 2.5 GPA or above.
**Term Typically Offered:** Fall, Spring

Directed observation and supervised work experience in an approved business, government, or service agency. Internships are offered for the purpose of increasing student understanding of the nature and scope of agency operations and giving students orientation in occupational specialties. Supervision is provided by authorized persons in the cooperating agencies and collaborative supervision is provided by the Family and Consumer Sciences faculty. Each student is required to maintain a record of activities and assignments and to prepare periodic reports.
**Note:** Student must make arrangements with a faculty member for a work program one semester prior to admittance to the course. A minimum of three hours per week per unit of credit is required.

Credit/No Credit

FACS 199. Special Problems. 1 - 3 Units
**Term Typically Offered:** Fall, Spring

Individual projects or directed reading.
**Note:** Departmental petition required.

Credit/No Credit

FASH 30. Fashion and Human Environment. 3 Units
**General Education Area/Graduation Requirement:** GE AREA D
**Term Typically Offered:** Fall, Spring, Summer

This course serves as an introduction to the study of fashion and human environment and how fashion is perceived, marketed, and internalized within individuals across Western and non-Western cultures. A focus on both internal factors such as psychological, aesthetic and self-image, and external factors such as social, economic, cultural and political experiences will be addressed.

FASH 31. Science of Textile. 3 Units
**General Education Area/Graduation Requirement:** Physical Science (B1)
**Term Typically Offered:** Fall, Spring, Summer

Introduction to textile science fundamentals to guide daily textile product selection, use, and care. Overview of physical and chemical properties of textile composition and its impact on textile product performance. Emphasis of textile as a unique medium for studying physical science through an approachable and real-life applicable lens. Discussion of environmental impact of the textile industry as well as scientific innovations in sustainable textile production.

FASH 32. Fundamentals of Apparel Production. 3 Units
**Prerequisite(s):** You must be a FACS major or FASH major to enroll in this course.
**Term Typically Offered:** Fall, Spring

Principles of fit and design. Applied basic construction with emphasis on standards and custom techniques. Characteristics of fabrics used; individual pattern adjustment. Lecture, discussion, demonstration one hour, laboratory four hours.
**3 Units**

**General Education Area/Graduation Requirement:** Critical Thinking (A3)  
**Term Typically Offered:** Fall, Spring

Introduction to critical reasoning, evaluating, and thinking skills through the social, environmental, and economic issues in fashion sustainability. Students will use research, reflection, acquisition of information, structuring arguments, and other critical thinking processes to analyze individual decision making as consumers, and gain an understanding of the greater global impact in fashion sustainability.

FASH 130.  History Of Western Fashion.  
**3 Units**

**General Education Area/Graduation Requirement:** Arts (Area C1)  
**Term Typically Offered:** Fall, Spring, Summer

An overview of dress and fashion in western civilization from antiquity to the present. An interdisciplinary approach is used to examine how western fashion has evolved over time and functions as a reflection of trends in technology, political events, social ideals, and cultural developments such as art and music. Emphasis on the contributions and perspectives of women, as well as the differing roles in the production, dissemination, and consumption of clothing in relation to socioeconomic groups. Lecture, discussion.

**3 Units**

**Prerequisite(s):** FACS 31, FACS 32.  
**Term Typically Offered:** Spring only

Analysis of apparel construction and production; current industrial and technological developments. Discussion of sizing and quality standards with emphasis on identification of fabrics, garment styles, finding and trims. Lecture, discussion, demonstration, field trips. Field trip(s) may be required.

FASH 133.  Creative Principles of Apparel Design.  
**3 Units**

**Prerequisite(s):** FACS 30 and FACS 31  
**Term Typically Offered:** Fall only

Study of the functional and aesthetic elements of apparel design. The creative process and development of illustrative techniques. Development of creative approaches through projects of experimental, contemporary and traditional techniques with emphasis on elements of design, and selection and organization of colors, forms, materials and accessories for apparel production. Studio-activity six hours.

FASH 134.  Introduction to Fashion Industry.  
**3 Units**

**Term Typically Offered:** Fall, Spring

Designed to develop an awareness and understanding of the total fashion industry including past, present and future directions of costume design, manufacturing, textiles, retailers’ publications, buying offices, advertising and the consumer.

FASH 135.  Merchandise Buying.  
**3 Units**

**Prerequisite(s):** FASH 134.  
**Term Typically Offered:** Fall only

Detailed study of merchandising mix, purchasing plan, inventory plan, assortment plan, pricing, markdown, markup, and reports. Review of planning and control processes and the buyer's role in merchandise management and decision-making. Lecture, discussion.

FASH 136.  Fashion Retailing.  
**3 Units**

**Prerequisite(s):** FASH 134.  
**Term Typically Offered:** Spring only

A in-depth exploration of fashion retailing from different perspectives, including organizational structure, store location and image with a focus on visual merchandising techniques, and fashion advertising and promotion strategies.

FASH 137.  Clothing, Society, and Culture.  
**3 Units**

**General Education Area/Graduation Requirement:** GE AREA D  
**Term Typically Offered:** Fall, Spring

Study of the relationship of humans and clothing within their cultural and social environment. Introduction to the fundamentals of social psychology in the examination of clothing and appearance. Clothing and appearance are studied as forms of nonverbal communication and as devices for expressing cultural and social values.

FASH 139.  Textiles and Apparel in the Global Economy.  
**3 Units**

**Prerequisite(s):** FASH 134 or MKTG 101.  
**Term Typically Offered:** Spring only

Overview of global factors affecting the textiles and apparel industries and trade, the impact of textiles and apparel industries on the economy and consumers, the US textiles and apparel in the global economy, and strategies for balancing conflicting interest.

FASH 146.  Fashion Entrepreneurship.  
**3 Units**

**Prerequisite(s):** FASH 134.  
**Term Typically Offered:** Fall, Spring

This is a Service Learning course addressing the essentials of entrepreneurship in the fashion industry, enabling students to learn effective entrepreneurial and general management practice through service learning. Emphasis is placed on the essentials of planning that are vital to entrepreneurial success, step by step guide for starting a fashion business and effective business models, which focus on problems, solutions, key metrics and competitive advantages that will assist in pitching the business. Students complete 45 hours of fieldwork.

FASH 148.  Fashion Law.  
**3 Units**

**Term Typically Offered:** Fall only

This course provides an overview of legal issues affecting the fashion industry and its professionals with an emphasis on fashion entrepreneurship, design, advertising and promotion, production, sourcing, marketing and retailing. Students will also learn about fashion regulatory and policy issues, intellectual property (copyright, trademarks, patents), contractual agreements, leasing, commercial operations and expansion, and the international development of a fashion business.

**3 Units**

**Prerequisite(s):** FASH 134 or MKTG 101.  
**Term Typically Offered:** Fall, Spring

This course provides an overview of legal issues affecting the fashion industry and its professionals with an emphasis on fashion entrepreneurship, design, advertising and promotion, production, sourcing, marketing and retailing. Students will also learn about fashion regulatory and policy issues, intellectual property (copyright, trademarks, patents), contractual agreements, leasing, commercial operations and expansion, and the international development of a fashion business.

FASH 250.  The Family and Social Issues.  
**3 Units**

**General Education Area/Graduation Requirement:** GE AREA D, Race & Ethnicity Graduation Requirement (RE)  
**Term Typically Offered:** Fall, Spring

Family structure, systems and functioning in marriage and other partnerships, parenting, work issues, domestic violence, divorce, and remarriage. Focus on social issues including gender, race, ethnicity, and class. Historical and theoretical perspectives on families in America. Introduction to research in family sciences and public policy implications. Lecture, discussion.

**Note:** Not open for credit to students who have taken SOC 5.
FSHD 52. The Child In The Family. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Physical, social, emotional and cognitive development of the child, conception through adolescence, in relation to the family. Strong theoretical emphasis. Introduction to methods of study, including observation and interview. Lecture, discussion, fieldwork.

Note: Not open for credit to students who have taken CHDV 137, CHDV 138, or PSYC 148.

FSHD 108. Family Communication. 3 Units
Prerequisite(s): COMS 8, FACS 50, SOC 166, or instructor permission.
Term Typically Offered: Fall, Spring

Study of the family as a small group with emphasis on understanding and interpreting the dynamics of family communication using various communication and social-psychological theories. Opportunity to develop an analytical framework.

Cross Listed: COMS 108; only one may be counted for credit.

FSHD 150. Family Stress and Coping: Multicultural Focus. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Study of multicultural families and diverse family forms, with a focus on how families function under stress. Family theory and research are applied to the interpretation and analysis of selected literary work, both in print and film formats.

FSHD 152. Adolescent Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or FACS 52, or instructor permission.
Term Typically Offered: Fall, Spring

In-depth study of the achievements and challenges associated with the adolescent stage of development. Focus on understanding the needs and motivations of adolescents and the challenges they face within their socio-cultural environment. Lecture, discussion.

Note: Not open to students who have taken PSYC 149. Previous or concurrent enrollment in CHDV 133 strongly recommended.

FSHD 154. Issues in Parenting. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or FACS 52, or instructor permission
Term Typically Offered: Fall, Spring

Survey of historical and contemporary attitudes toward parenting. Review of research on child-rearing and parent-child relationships. Use of case studies to explore the influence of personality, developmental stage, family structure, ethnic and cultural factors on parenting. Lecture, Case Study.

Note: Previous or concurrent enrollment in CHDV 133 strongly recommended. Cross-listed: CHDV 154; only one may be counted for credit.

FSHD 155. Family Life Education. 3 Units
Prerequisite(s): FACS 50; and FACS 100 or CHDV 133; and senior standing.
Term Typically Offered: Fall, Spring

Historical and philosophical perspective on family life education across the lifespan. Practice in curriculum development including content, objectives, and teaching strategies.

FSHD 156. Child Life and Family-Centered Care. 3 Units
Prerequisite(s): FACS 52 or CHDV 30 or CHDV 35 or a course in child development/human development, covering at least birth through adolescence with instructor permission.
Term Typically Offered: Summer only

Overview of the Child Life profession and child life practices. Focus on family-centered care for children in the healthcare environment and their families. Major course topics include: scope of practice in child life; ethical and professional practice; impact of illness, injury and health on patients and family; techniques and outcomes of preparation; therapeutic play; grief and bereavement.

Note: This course is designed to meet the specifications set forth by the Association of Child Life Professionals (ACLP) for the child life course required for certification as a Certified Child Life Specialist (CCLS)

FSHD 159. Adulthood and Aging in Human Development. 3 Units
Term Typically Offered: Fall, Spring

Analyzes the interrelation between physical, psychological, and social development in the middle and later years of adulthood with attention to personal, family and community challenges and opportunities in their cultural context.

FSHD 162. Family Support Services. 3 Units
Prerequisite(s): A minimum of 12 units in FACS and/or FSHD upper division family area courses.
Term Typically Offered: Fall, Spring

Application of family science to the development, implementation, and evaluation of family support services. Implications of research for practice with diverse families. Focus on developing skills in family-centered services, family-professional collaboration, and resource- and asset-based intervention. Lecture two hours; fieldwork in the community three hours.

FSHD 195F. Practicum in Family Life Education. 1 - 3 Units
Prerequisite(s): senior status; GPA of 2.75 or above; NURS 160 or PSYC 134 or HLSC 134; and FACS 155.
Corequisite(s): If not taken as a prerequisite, FACS 155 may be taken concurrently with instructor’s approval.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved educational setting, service agency, business or government agency that provides family life education. Students will move from observing and assisting to developing, delivering and assessing lessons and programs in family life education. Students will gain experience applying educational and developmental theories, curriculum development, and teaching methods to delivering evidence-based and culturally sensitive lessons in the content areas of family life education: parent education, strengthening relationships, and/or sexuality education.

Note: Students must make arrangements with the supervising faculty member one semester prior to admittance to the course.

Credit/No Credit
NUFD 5.  Science of Food.  3 Units  
General Education Area/Graduation Requirement: Physical Science (B1)  
Term Typically Offered: Fall, Spring, Summer  

Introduction to food science fundamentals including food composition, chemical and physical reactions, and nutritional properties of food. Overview of evidence-based practices for food selection, storage, and preparation. Examination of specific issues such as food safety, food technology, food supply, and food law. Lecture 3 hours.

NUFD 9.  Food Safety and Sanitation.  3 Units  
Term Typically Offered: Fall, Spring, Summer  

Introduction to food safety principles and application, microbiology of food safety, infection control, and safety issues. Examination of laws and regulations related to consumer and food service operations. Preparation for national food service sanitation certification exam.

NUFD 10.  Nutrition And Wellness.  3 Units  
General Education Area/Graduation Requirement: Understanding Personal Development (E)  
Term Typically Offered: Fall, Spring, Summer  

Introduction to the basic principles of nutrition and the relationship of the human diet to health. Overview of the nutrition profession, the biological uses of nutrients and tools for dietary planning. Examination of specific issues such as weight loss, sports nutrition, food safety, the diet-disease relationship and global nutrition. Analysis of special nutritional requirements and needs during the life cycle. Evaluation of personal dietary habits using current dietary guidelines and nutritional assessment methods.

NUFD 11.  Principles of Food Preparation.  3 Units  
Prerequisite(s): NUFD majors and FACS majors only.  
Term Typically Offered: Fall, Spring  

Chemical, physical, sensory, and nutritional properties of food related to processes used in food preparation. Activity includes preparation and evaluation of individual food products.

NUFD 100.  Research: Methods and Application in Nutrition and Food.  3 Units  
Prerequisite(s): 6 NUFD units completed. NUFD majors or minors only.  
Term Typically Offered: Fall, Spring, Summer  

Study of methods and application of research in the field of Nutrition & Food. Focus on scientific inquiry, methodology, evidenced-based practice, interpretation of research results, program and project evaluation, and professional communication. Includes the examination of ethical practices, professional presentation skills, and technical writing skills.

NUFD 107.  Nutrition Education, Communication, and Counseling.  3 Units  
Prerequisite(s): NUFD 10 and an additional 3 NUFD units  
Term Typically Offered: Fall, Spring  

Nutrition Education, communication and counseling techniques for use by the nutrition/dietetics professional. Introduction and application of various health behavior theories to promote change in diverse target audiences. Development of nutrition care plans, educational materials and activities for individual groups. Understand and apply methods of dietary assessment and motivational interviewing.

NUFD 110.  Food Production and Sustainability.  4 Units  
Prerequisite(s): NUFD 9, NUFD 10 and NUFD 11  
Term Typically Offered: Fall, Spring, Summer  

Study and laboratory experience in planning, procuring, production, serving and evaluation of food for individuals, families, commercial, and institutional foodservice operations. Application of menu development techniques such as recipe modification and standardization to various target populations. Examination and application of marketing analysis and promotion. Understanding of current issues and sustainability topics related to food production.

NUFD 111.  Grocery Procurement & Merchandising.  3 Units  
Prerequisite(s): NUFD 5 or NUFD 10; and NUFD 9  
Term Typically Offered: Fall, Spring  

This course examines the processes for purchasing and receiving food and non-food products in a retail market setting. The course focuses on procurement and merchandising strategies in the grocery industry which tap into consumer trends and preferences.

NUFD 112.  Current Topics in Nutritional Sciences.  3 Units  
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.  
General Education Area/Graduation Requirement: Further Studies in Area B (B5), Writing Intensive Graduation Requirement (WI)  
Term Typically Offered: Fall, Spring, Summer  

Examination of contemporary and controversial topics in nutrition science and how they relate to nutritional needs of different population groups. Analyzes the research process and evaluation of validity of nutrition research. Lecture, discussion.

NUFD 113.  Nutrition And Metabolism.  3 Units  
Prerequisite(s): NUFD 10; BIO 2 or BIO 10 or BIO 20; and Chem 1A or Chem 5 or Chem 6A  
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5  
Term Typically Offered: Fall, Spring, Summer  

Study of the structures, types and metabolism of carbohydrates, lipids and proteins. Discussion of the biological roles of vitamins and minerals. Application and integration of metabolic knowledge with health promotion and chronic disease. Lecture, discussion.

NUFD 114.  Cultural and Social Aspects of Food.  3 Units  
Prerequisite(s): FACS/NUFD 10  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring  

Examination of the cross-cultural and social meaning of food and dietary behaviors. Regional, ethnic, religious, economic, and environmental influences on food habits and health status. Study of how cultural and societal values affect intake, health belief practices, and communication styles. Overview of health disparities in the context of socioeconomic status, race, ethnicity, and education. Understanding implicit bias, cultural differences, diversity, equity, and inclusion while working in a multicultural and diverse environment.
NUFD 115. Nutrition: Pre-conception Through Childhood. 3 Units
Prerequisite(s): NUFD 113
Term Typically Offered: Fall, Spring

Examination of nutritional requirements, metabolism and issues during stages of the early life cycle, including: pre-conception, pregnancy, lactation, infancy, and early and late childhood. Study of assessment and methods for achieving nutritional needs through dietary selection and promotion of maternal, infant, and child health. Analysis of social, environmental, physical and economic factors affecting nutritional status.

NUFD 116. Food Service Management. 3 Units
Prerequisite(s): NUFD 110.
Term Typically Offered: Fall, Spring

Study of financial, facility, human resource management in commercial and noncommercial foodservice operations. Application of accounting principles, evaluation and selection of equipment, layout and design, and principles and practices of human resource management as an entry-level manager.

NUFD 117. Community Nutrition. 3 Units
Prerequisite(s): NUFD 107, and either NUFD 115 or NUFD 119.
Term Typically Offered: Fall

Study of theory, concepts and philosophy affecting nutrition education and services in the community. Introduction to techniques of interviewing and counseling clients. Emphasis on culturally sensitive approaches to dietary assessment, counseling and community nutrition research. Use of a variety of teaching methods to improve nutrition status of the community. Field study involves practical experience in a community nutrition program. Lecture, discussion two hours; field study three hours.

NUFD 118A. Medical Nutrition Therapy I. 3 Units
Prerequisite(s): NUFD 113, NUFD 121, and BIO 131.
Term Typically Offered: Fall only

Study of the principles of medical nutrition therapy and the Nutrition Care Process. Use the Nutrition Care Process to make decisions, identify nutrition-related problems and determine and evaluate nutrition interventions with patients/clients with various conditions, including, cardiovascular and gastrointestinal disorders.

NUFD 118B. Medical Nutrition Therapy II. 3 Units
Prerequisite(s): NUFD 118A, and CHEM 161 or instructor permission.
Term Typically Offered: Spring only

Continuation of principles, methods, and skills as developed in NUFD 118A. Review of the etiology, development and dietary prevention and intervention of diseases influenced by nutrition such as: diabetes mellitus, hepatic and biliary diseases, cancer, renal disease, pulmonary disease, neurological disorders, HIV and AIDS, and inborn errors of metabolism. Lecture, discussion two hours; activity two hours.

NUFD 119. Nutrition: Adolescence Through Older Adulthood. 3 Units
Prerequisite(s): NUFD 113
Term Typically Offered: Fall, Spring

Examination of nutritional requirements, metabolism and issues during stages of the life cycle, including: adolescence, adulthood, and old age. Study of assessment and methods for achieving nutritional needs through dietary selection and promotion of adolescent, adult, and elderly adult health. Analysis of social, environmental, physical and economic factors affecting nutritional status.

NUFD 120. Practical Application in Sports Nutrition. 3 Units
Prerequisite(s): NUFD 113
Term Typically Offered: Fall, Spring

A survey course in nutrition with an emphasis on the relationship among diet, physical activity, and health; exploration of the changes in the metabolism of carbohydrates, lipids, protein and water; discussion of the function of vitamins and minerals; practical application of evidence-based dietary recommendations for common sports and varying physical intensity.

NUFD 121. Nutrition Assessment, Methods and Support. 3 Units
Prerequisite(s): NUFD 113
Term Typically Offered: Fall, Spring, Summer

Study of health care systems, the nutrition care process including assessment and support, and clinical implications of malnutrition. Topics include nutrition-focused physical examination, anthropometric, biochemical, dietary, body composition, and functional status evaluation and an understanding of advantages and disadvantages of assessment approaches. Application of various assessment methods and problem solving will be achieved through hands on training and clinical case studies in the context of malnutrition, nutrition support, cancer, eating disorders, and obesity.

NUFD 122. Social Media for Nutrition Communication. 3 Units
Prerequisite(s): NUFD 10 and NUFD 100 or NUFD 113
Term Typically Offered: Fall, Spring

Examine the uses of social media in the nutrition field and develop a framework to apply to future social media use in professional ventures. Focus on the critical analysis of the appropriateness, potential target populations, health behavior change strategies, the risks and benefits, and overall intended outcomes of social media communication. Create the design and evaluation framework of a social media campaign/initiative.

NUFD 168. Senior Seminar. 3 Units
Prerequisite(s): 21 NUFD and/or FACS units
Term Typically Offered: Fall, Spring, Summer

Designed to synthesize knowledge in the Nutrition and Food discipline. Examination of the major and career exploration. Analysis of public policy and ethical issues, professionalism and leadership strategies. Includes a capstone project and development of an academic and/or professional portfolio.

NUFD 190D. Dietetic Pathways. 1 Unit
Prerequisite(s): Senior standing in the Dietetics Concentration or instructor permission.
Term Typically Offered: Fall only

Examination of dietetics career paths, processes and options. Students will learn about the profession of dietetics, including professionalism, the professional organization, pathways, mentoring and the code of ethics.
NUFD 200. Research Methods. 3 Units
Prerequisite(s): Admittance to the NUFD graduate program or instructor permission.
Term Typically Offered: Spring only

A critical examination of quantitative and qualitative research methods used in the nutrition and food discipline. Develop skills in research design selection, measurement, analysis, and interpretation and presentation of results. Study human research ethics and IRB submission protocol. Explore techniques to ensure assessment tools are valid, reliable, and culturally appropriate.

NUFD 213. Advanced Nutrition with Community Program Applications. 3 Units
Prerequisite(s): Admittance into the MS program or instructor permission.
Term Typically Offered: Fall only

In-depth review of current knowledge and research of nutrients in food and application to nutrition policy and public health practice within the US and globally. Examination of physiological function, metabolism, transport, deficiency, toxicity, and interrelationships of macro and micronutrients in relation to the nutrient-disease relationship. Evaluating scientific findings relating to nutrient function, with an emphasis on nutrients of public health concern and food components that pose public health challenges.

NUFD 221A. Advanced Clinical Nutrition A. 3 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Perform nutrition assessment of patients with complex medical conditions. Integration of pathophysiology into medical nutrition therapy. Development, supervision and evaluation of nutrition care plans. Select, calculate, monitor and evaluate nutritional support regiments for patients. Lecture, composition.

NUFD 221B. Advanced Clinical Nutrition B. 1 Unit
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Spring only

Continuation of principles and skills as developed in FACS 221A with application to other complex disease conditions and integration to multiple diseases. Application of genetics and pathophysiology to complex disease conditions. Demonstration of skills in assignments and presentations. Lecture, composition.

NUFD 222. Advanced Community Nutrition and Nutrition Education. 3 Units
Prerequisite(s): Admission into NUFD graduate program, Dietetic Internship program, or instructor permission.
Term Typically Offered: Fall only

The course will examine the implementation of nutrition care for population groups across the lifespan. Explore assessment and evaluation methodologies of community based food and nutrition programs. Nutrition policy development and evaluation based on community needs and resources to address health disparities. Learn advanced nutrition education intervention techniques applying behavioral models and theories.

NUFD 223. Advanced Foodservice Management and Administration. 2 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Management of procurement, distribution, and service of food, and integration of financial, human, physical and material resources. Production of food that meets nutrition guidelines, cost parameters, and consumer acceptance; safety and sanitation issues related to food. Analysis of the operations of food service organization. Lecture, written assignments and practical experience.

NUFD 224. Advanced Community Nutrition and Policy. 3 Units
Prerequisite(s): Admission into NUFD graduate program, Dietetic Internship Program, or instructor permission.
Term Typically Offered: Spring only

Learn and apply the nutrition care process and manage nutrition care for population groups. Conduct outcome assessment, planning, implementation, marketing and evaluation of nutrition programs. Apply the research process and critically evaluate nutrition research. Develop an understanding of nutrition policy and resources.

NUFD 225. Food Production and Sustainability Policy. 3 Units
Prerequisite(s): Admittance into the NUFD graduate program or instructor permission.
Term Typically Offered: Fall only

Exploration of a variety topics including food policies, food systems and sustainable food production. The course will review the political landscape of both food and agriculture and current social movements towards sustainable and just food systems.

NUFD 280. Teaching Methods in Family and Consumer Sciences/Home Economics. 3 Units
Prerequisite(s): Current enrollment in a teaching credential program or instructor permission.
Term Typically Offered: Summer only

This course is designed to provide students with materials, classroom management strategies and methods necessary to successfully teach Family & Consumer Sciences (FCS)/Home Economics Careers and Technology (HECT) at the secondary level. Teacher candidates will become acquainted with legislation, standards, teaching strategies, resources, research and student leadership programs.

NUFD 295. Field Study. 1 - 7 Units
Prerequisite(s): Enrolled in Graduate Studies in NUFD Dietetic Internship Program
Term Typically Offered: Fall, Spring

Guided study, observation or work experience in an area in which the graduate student needs advanced and specialized study.
Note: May be repeated for credit

Credit/No Credit

NUFD 299. Special Problems. 1 - 3 Units
Prerequisite(s): Undergraduate major or minor in Family and Consumer Sciences.
Term Typically Offered: Fall, Spring

Any properly qualified student may pursue a problem after approval by his/her advisor and the staff member with whom he/she works.
Credit/No Credit
NUFD 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy or permission of the graduate coordinator.
Term Typically Offered: Spring only
Guides students through the completion of a thesis or project approved for the Master of Nutrition and Food degree.

BS in Family Studies and Human Development

Units required for Major: 51
Total units required for BS: 120

Program Description
The major prepares students for careers in various human service fields. The program emphasizes an asset-based approach to understanding lifespan human development, family systems, and family diversity in cultural context. The major is approved by the National Council on Family Relations (NCFR) for academic programs in Family Life Education. (Also see certificate program in Family Life Education.)

Career Possibilities
Child Life Specialist · Community-Based Social Service Provider · Community Educator · Consumer and Family Resource Specialist · Early Childhood Educator · Family Life Educator · Family Planning Provider · Family Support Services Provider · Government and Public Policy Specialist · Health Care and Family Wellness Provider · Marriage and Family Enrichment Provider · Parent Educator · Prenatal and Maternity Service Provider · Preschool and Adult Day Care Director · Resource and Referral Services Specialist · Sexuality Educator · Youth Advisor

Requirements for BS in Family Studies and Human Development:
- 120 units minimum with 40 upper division units
- General Education requirements including 9 upper division General Education units

Program Requirements

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>Required Core Courses (21 Units)</td>
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<td>FSHD 50</td>
<td>The Family and Social Issues 1</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 100</td>
<td>Nutrition And Wellness</td>
<td>3</td>
</tr>
<tr>
<td>SOC 8</td>
<td>Sense and Nonsense in Social Issues and Research 2</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 1</td>
<td>Introduction to Statistics</td>
<td></td>
</tr>
<tr>
<td>FACS 100</td>
<td>Research: Methods and Application in Family and Consumer Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FACS 140</td>
<td>Family Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>FACS 141</td>
<td>Family Finance</td>
<td>3</td>
</tr>
<tr>
<td>FACS 168</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Required Lower Division Courses (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FSHD 52</td>
<td>The Child In The Family</td>
<td>3</td>
</tr>
<tr>
<td>Required Upper Division Courses (24 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FSHD 108</td>
<td>Family Communication</td>
<td>3</td>
</tr>
<tr>
<td>FSHD 150</td>
<td>Family Stress and Coping: Multicultural Focus 2</td>
<td>3</td>
</tr>
<tr>
<td>FSHD 152</td>
<td>Adolescent Development</td>
<td>3</td>
</tr>
</tbody>
</table>

FSHD 154 | Issues in Parenting                           | 3     |
FSHD 155 | Family Life Education                         | 3     |
FSHD 159 | Adulthood and Aging in Human Development      | 3     |
FSHD 162 | Family Support Services                       | 3     |
PUBH 134 | Understanding Human Sexuality                 | 3     |

Elective to be selected from the following OR other elective with advisor approval 3
- CHAD 157 Infant and Toddler: Development and Care
- FACS 156 Child Life and Family-Centered Care
- FACS 195C Internship
- FSHD 195F Practicum in Family Life Education
- FASH 137 Clothing, Society, and Culture
- NUFD 107 Nutrition Education, Communication, and Counseling
- NUFD 114 Cultural and Social Aspects of Food

Total Units 51
1 Child, Family, and Society will be accepted as an alternative to comply with the CSU Lower Division Transfer Pattern.
2 Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (6-9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking 2,3</td>
<td>0 -</td>
</tr>
</tbody>
</table>

Area B: Physical Universe and Its Life Forms (10-13 Units)
- B1 - Physical Science                         | 3     |
- B2 - Life Forms                                | 3     |
- B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) | 1     |
- B4 - Math Concepts 2,3                         | 0 -   |

Area C: Arts and Humanities (12 Units)
- C1 - Arts                                      | 3     |
- C2 - Humanities                                | 3     |
- C1/C2 - Area Course C                         | 3     |
- C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. | 3     |

Area D: The Individual and Society (3 Units)
- Area D Course                                  | 3     |
- Area D Course 2                                | 0     |
- Area D Course - Take upper-division course to complete Area & upper division requirements. | 0     |

Area E: Understanding Personal Development
- Area E Course 2                               | 0     |

Area P: Ethnic Studies

BS in Fashion Merchandising and Management

Units required for Major: 51
Total units required for BS: 120

Program Description

The major prepares students for careers in the global fashion industry, including management, marketing, buying, advertisement, promotion, manufacturing, sourcing, distribution, retailing, and many more. The program also emphasizes the contemporary and historical ways of meeting the economic, physiological, aesthetic, psychological, sociological, and cultural needs of consumers relative to fashion products.

Minimum Grade Requirement

A minimum grade of "C-" is required for all prerequisite courses within and outside the Department.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core Courses (18 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis 1</td>
<td>3</td>
</tr>
<tr>
<td>or PHOT 11</td>
<td>Digital Photography I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis 1</td>
<td>3</td>
</tr>
<tr>
<td>or GPHD 5</td>
<td>Introduction to Graphic Design</td>
<td></td>
</tr>
<tr>
<td>FASH 30</td>
<td>Fashion and Human Environment 1</td>
<td>3</td>
</tr>
<tr>
<td>FASH 31</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>FASH 32</td>
<td>Fundamentals of Apparel Production</td>
<td>3</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics 1</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 1</td>
<td>Introduction to Statistics</td>
<td></td>
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</table>

Required Upper Division Courses (30 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACS 100</td>
<td>Research: Methods and Application in Family and Consumer Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FACS 168</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>FASH 130</td>
<td>History Of Fashion</td>
<td>3</td>
</tr>
<tr>
<td>FASH 131</td>
<td>Quality Analysis: Apparel</td>
<td>3</td>
</tr>
<tr>
<td>FASH 134</td>
<td>Introduction to Fashion Industry</td>
<td>3</td>
</tr>
<tr>
<td>FASH 135</td>
<td>Merchandise Buying</td>
<td>3</td>
</tr>
<tr>
<td>FASH 136</td>
<td>Fashion Retailing</td>
<td>3</td>
</tr>
<tr>
<td>FASH 139</td>
<td>Textiles and Apparel in the Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>FASH 146</td>
<td>Fashion Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 101</td>
<td>Principles Of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Upper Division Courses (Select one from the following three courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FASH 133</td>
<td>Creative Principles of Apparel Design</td>
<td></td>
</tr>
<tr>
<td>FASH 137</td>
<td>Clothing, Society, and Culture</td>
<td></td>
</tr>
<tr>
<td>FASH 148</td>
<td>Fashion Law</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 51

1 Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area B: Physical Universe and Its Life Forms (10 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts 2</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>
Graduation Requirements

BS - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.

Area C: Arts and Humanities (9-12 Units)
- C1 - Arts 2,3,4
- C2 - Humanities
- C1/C2 - Area C Course
- C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.

Area D: The Individual and Society (3 Units)
- Area D Course
- Area D Course 2
- Area D Course - Take upper-division course to complete Area & upper division requirements.

Area E: Understanding Personal Development (3 Units)
- Area E Course

Area F: Ethnic Studies
- Area F Course

Total Units 34-37

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

3 Department offers students an "OR" option for ECON 1A and PHOT 11:
   - If student chooses to take ECON 1A, they will meet one area of Area D and will still be required to complete an Area C1 course.
   - If student chooses to take PHOT 11, they will meet Area C1 and will not need this area of Area D which is met through FACS 30.

4 Department offers students an "OR" option for ECON 1B and GPHD 5:
   - If student chooses to take ECON 1B, they will meet one area of Area D and will still be required to complete an Area C1 course.
   - If student chooses to take GPHD 5, they will meet Area C1 and will not need this area of Area D which is met through FASH 30.

BS in Nutrition and Food

Units required for Major: 54
Total units required for BS: 120

Program Description

The major prepares students for careers in the field of nutrition, food management, and community nutrition, and food sustainability. The major emphasizes the role of nutrition and food in individual and family health, cultural and behavioral influences on food selection, and the management of commercial and noncommercial food systems. The major is offered in three modalities to meet student needs: in-person, hybrid (combination of online and in-person courses), and online. The online major courses will include asynchronous and synchronous formats.

Minimum Grade Requirement

A minimum grade of “C-” is required for all prerequisite courses within and outside the Department.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core Courses (48 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO 10</td>
<td>Basic Biological Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>or CHEM 6A</td>
<td>Introduction to General Chemistry</td>
<td></td>
</tr>
<tr>
<td>NUFD 9</td>
<td>Food Safety and Sanitation</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 10</td>
<td>Nutrition And Wellness</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 11</td>
<td>Principles of Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 100</td>
<td>Research: Methods and Application in Nutrition and Food</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 168</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2</td>
<td>Introductory Psychology</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 107</td>
<td>Nutrition Education, Communication, and Counseling</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 110</td>
<td>Food Production and Sustainability</td>
<td>4</td>
</tr>
<tr>
<td>NUFD 113</td>
<td>Nutrition And Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 114</td>
<td>Cultural and Social Aspects of Food</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 115</td>
<td>Nutrition: Pre-conception Through Childhood</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 119</td>
<td>Nutrition: Adolescence Through Older Adulthood</td>
<td>3</td>
</tr>
</tbody>
</table>
BS in Nutrition and Food (Dietetics)

**Program Description**

The major prepares students for careers in the field of nutrition, food management, community nutrition, and food sustainability. The program emphasizes the role of nutrition and food in individual and family health, cultural and behavioral influences on food selection, and the management of commercial and noncommercial food systems.

**Pre-Major Requirements**

To declare the Dietetics Concentration, freshman or transfer students admitted to the BS in Nutrition and Food are required to complete the following grade and core course requirements, and then submit a Major Change form to the Family and Consumer Sciences Department Office along with all transcript copies:

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

   **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. Required in Major; also satisfies GE.

---

**Required Upper Division Courses (6 Units)**

Select two of the following:

- NUFD 112 Current Topics in Nutritional Sciences 1
- NUFD 116 Food Service Management
- NUFD 117 Community Nutrition
- NUFD 118A Medical Nutrition Therapy I
- NUFD 120 Practical Application in Sports Nutrition
- NUFD 121 Nutrition Assessment, Methods and Support

**Total Units** 54

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Dietetics concentration students must take CHEM 1A

**Note:** CHEM 1A, CHEM 1B, and CHEM 20 are recommended for students who plan to complete the dietetics concentration or graduate studies in nutrition.

**General Education Requirements 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>2</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>2</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) 2</td>
<td></td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>2</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements. 2</td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2/Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<td></td>
</tr>
<tr>
<td>Area D: The Individual and Society (3 Units)</td>
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<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area D Course 2</td>
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</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area E: Understanding Personal Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area E Course</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Area F: Ethnic Studies</td>
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<td></td>
</tr>
<tr>
<td>Area F Course</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

**Total Units** 24

---

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

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2. Required in Major; also satisfies GE.

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**Graduation Requirements 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td>B</td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Writing Intensive (WI)</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>E</td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td>F</td>
<td>Foreign Language Proficiency Requirement 2</td>
<td>6</td>
</tr>
</tbody>
</table>

---

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

   **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."

1. An overall GPA of 2.75
2. Completion of the following required core courses (28 units) with a "C" or better. Only first or second attempts will be considered.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 10</td>
<td>Basic Biological Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>NUF D 9</td>
<td>Food Safety and Sanitation</td>
<td>3</td>
</tr>
<tr>
<td>NUF D 10</td>
<td>Nutrition And Wellness</td>
<td>3</td>
</tr>
<tr>
<td>NUF D 11</td>
<td>Principles of Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>NUF D 113</td>
<td>Nutrition And Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Lower Division Core Courses (23 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 10</td>
<td>Basic Biological Concepts 1</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>NUF D 9</td>
<td>Food Safety and Sanitation</td>
<td>3</td>
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<td>3</td>
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<tr>
<td>NUF D 11</td>
<td>Principles of Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2</td>
<td>Introductory Psychology 1</td>
<td>3</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Required Upper Division Core Courses (59 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>NUF D 100</td>
<td>Research: Methods and Application</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>in Nutrition and Food</td>
<td></td>
</tr>
<tr>
<td>NUF D 107</td>
<td>Nutrition Education, Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>and Counseling</td>
<td></td>
</tr>
<tr>
<td>NUF D 110</td>
<td>Food Production and Sustainability</td>
<td>4</td>
</tr>
<tr>
<td>NUF D 113</td>
<td>Nutrition And Metabolism 1</td>
<td>3</td>
</tr>
<tr>
<td>NUF D 114</td>
<td>Cultural and Social Aspects of Food</td>
<td>3</td>
</tr>
<tr>
<td>NUF D 115</td>
<td>Nutrition: Pre-conception Through</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Childhood</td>
<td></td>
</tr>
<tr>
<td>NUF D 119</td>
<td>Nutrition: Adolescence Through O</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>lderhood</td>
<td></td>
</tr>
<tr>
<td>NUF D 168</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Concentration</strong></td>
<td>34</td>
</tr>
<tr>
<td></td>
<td><strong>Total Units</strong></td>
<td>82</td>
</tr>
</tbody>
</table>

1. Course also satisfies General Education (GE)/Graduation Requirement.

**Concentration in Dietetics (34 units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Lower Division Courses (12 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 39</td>
<td>Microbiology for Allied Health Stud</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 20</td>
<td>Organic Chemistry Lecture–Brief Cou</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Required Upper Division Courses (22 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 131</td>
<td>Systemic Physiology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 161</td>
<td>General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>NUF D 116</td>
<td>Food Service Management</td>
<td>3</td>
</tr>
<tr>
<td>NUF D 117</td>
<td>Community Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NUF D 118A</td>
<td>Medical Nutrition Therapy I</td>
<td>3</td>
</tr>
<tr>
<td>NUF D 118B</td>
<td>Medical Nutrition Therapy II</td>
<td>3</td>
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**General Education Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area B: Physical Universe and Its Life Forms</strong></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science 2</td>
<td>0</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms 2</td>
<td>0</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) 2</td>
<td>0</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts 2</td>
<td>0</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements. 2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Area C: Arts and Humanities (12 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Area D: The Individual and Society (3 Units)</strong></td>
<td></td>
</tr>
<tr>
<td>Area D</td>
<td>Course</td>
<td>3</td>
</tr>
<tr>
<td>Area D</td>
<td>Course - Take upper-division course</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>to complete Area &amp; upper division</td>
<td></td>
</tr>
<tr>
<td></td>
<td>requirements.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Area E: Understanding Personal Development</strong></td>
<td></td>
</tr>
<tr>
<td>Area E</td>
<td>Course</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Area F: Ethnic Studies</strong></td>
<td></td>
</tr>
<tr>
<td>Area F</td>
<td>Course</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Total Units</td>
<td>24</td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).
2. Required in Major; also satisfies GE.

**Graduation Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Graduation Requirements (required by CSU) (9 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Graduation Requirements (required by Sacramento State) (12 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
</tbody>
</table>
Race and Ethnicity in American Society (RE) 3
Foreign Language Proficiency Requirement 2 6

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."
The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Minor in Family and Consumer Sciences

Units required for Minor: 24, all of which must be taken in Family and Consumer Sciences.

Program Description
A minimum of 12 upper division units is required. Courses must be selected from at least two areas of Family and Consumer Sciences in consultation with a FACS advisor.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FACS 50</td>
<td>Family Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>FACS 140</td>
<td>Textiles</td>
<td></td>
</tr>
<tr>
<td>FASH 31</td>
<td>Nutrition And Wellness</td>
<td></td>
</tr>
<tr>
<td>NUFD 10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Courses selected from two concentrations of Family and Consumer Sciences 21

Total Units 24

Minor in Fashion Merchandising and Management

Units required for Minor: 21, all of which must be taken in Fashion Merchandising and Management.

Program Description
The Minor in Fashion Merchandising and Management provides students an understanding of the role fashion plays in social/cultural environment, business/economic environment, and natural environment through course work in textiles, fashion industry, fashion globalizations, fashion entrepreneurship, fashion law and elective options in historic costume, fashion design/creation, fashion buying, and retailing. The minor is particularly well-suited towards students pursuing careers in journalism, marketing, entrepreneurship, management, business, art, design, and other professions.

Minimum Grade Requirement
A minimum grade of "C-" is required for all prerequisite courses within and outside the Department.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUFD 9</td>
<td>Food Safety and Sanitation</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 10</td>
<td>Nutrition And Wellness</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 107</td>
<td>Nutrition Education, Communication, and Counseling</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 113</td>
<td>Nutrition And Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 114</td>
<td>Cultural and Social Aspects of Food</td>
<td>3</td>
</tr>
<tr>
<td>Select two from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUFD 100</td>
<td>Research: Methods and Application in Nutrition and Food</td>
<td>6</td>
</tr>
<tr>
<td>NUFD 112</td>
<td>Current Topics in Nutritional Sciences</td>
<td></td>
</tr>
<tr>
<td>NUFD 115</td>
<td>Nutrition: Pre-conception Through Childhood</td>
<td></td>
</tr>
<tr>
<td>NUFD 119</td>
<td>Nutrition: Adolescence Through Older Adulthood</td>
<td></td>
</tr>
<tr>
<td>NUFD 120</td>
<td>Practical Application in Sports Nutrition</td>
<td></td>
</tr>
</tbody>
</table>

Minor in Nutrition and Food

Units required for Minor: 21, all of which must be taken in Nutrition and Food.

Program Description
The minor in Nutrition and Food gives students an understanding of the role food and nutrition play in health and disease prevention through coursework in food safety, cultural foods, nutrition & wellness, and metabolism and elective options in life-cycle nutrition, sports nutrition, and current nutrition controversies. The minor could be a relevant addition to any major and is particularly well-suited towards students pursuing careers in public health, gerontology, psychology, human development, health science, education, medicine, nursing, and other healthcare professions.

Minimum Grade Requirement
A minimum grade of "C-" is required for all prerequisite courses within and outside the Department.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUFD 9</td>
<td>Food Safety and Sanitation</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 10</td>
<td>Nutrition And Wellness</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 107</td>
<td>Nutrition Education, Communication, and Counseling</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 113</td>
<td>Nutrition And Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 114</td>
<td>Cultural and Social Aspects of Food</td>
<td>3</td>
</tr>
<tr>
<td>Select two from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUFD 100</td>
<td>Research: Methods and Application in Nutrition and Food</td>
<td>6</td>
</tr>
<tr>
<td>NUFD 112</td>
<td>Current Topics in Nutritional Sciences</td>
<td></td>
</tr>
<tr>
<td>NUFD 115</td>
<td>Nutrition: Pre-conception Through Childhood</td>
<td></td>
</tr>
<tr>
<td>NUFD 119</td>
<td>Nutrition: Adolescence Through Older Adulthood</td>
<td></td>
</tr>
<tr>
<td>NUFD 120</td>
<td>Practical Application in Sports Nutrition</td>
<td></td>
</tr>
</tbody>
</table>
MS in Nutrition and Food

The Sacramento State Master of Nutrition and Food program prepares students for leadership and advocacy in nutrition programs and policy. Students apply nutrition and food research to improve individual and community health by developing strategies to promote food access, health equity and dietary change.

The 30-unit program includes specialized coursework in nutrition science, advanced community nutrition, behavioral nutrition, and food and nutrition policy plus a wide array of interdisciplinary electives to be tailored to interests and career goals.

The Master of Nutrition and Food program is designed to:

- provide career advancement opportunities in federal, state and local food access and nutrition education agencies,
- complement the Sacramento State’s Dietetic Internship for those on the path to become Registered Dietitian Nutritionists.*

*Note: The Sacramento State Dietetic Internship, requires a separate application. More information about the Internship can be found at: www.csus.edu/facs/dietetic-internship/.

Admission Requirements

Applicants must possess a bachelor’s degree with a minimum 3.0 GPA for the last 60 units attempted.

Prerequisites

Prerequisites or their equivalents at other colleges or universities as determined by the Graduate Coordinator

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUFD 113</td>
<td>Nutrition And Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 115</td>
<td>Nutrition: Pre-conception Through Childhood</td>
<td>3</td>
</tr>
<tr>
<td>or NUFD 119</td>
<td>Nutrition: Adolescence Through Older Adulthood</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 117</td>
<td>Community Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>or NUFD 107</td>
<td>Nutrition Education, Communication, and Counseling</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 116</td>
<td>Food Service Management</td>
<td>3</td>
</tr>
<tr>
<td>or NUFD 110</td>
<td>Food Production and Sustainability</td>
<td>4</td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>or NUFD 100</td>
<td>Research: Methods and Application in Nutrition and Food</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 15-16

Minimum Units and Grade Requirement for the Degree

Units required for the MS: 30
Minimum Cumulative GPA: 3.0

Program Requirements

Required Core Courses (18 Units)

<table>
<thead>
<tr>
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<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>NUFD 200</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 213</td>
<td>Advanced Nutrition with Community Program Applications</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 222</td>
<td>Advanced Community Nutrition and Nutrition Education</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 224</td>
<td>Advanced Community Nutrition and Policy</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 225</td>
<td>Food Production and Sustainability Policy</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 500</td>
<td>Culminating Experience</td>
<td>3</td>
</tr>
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</table>

Electives (12 Units)

Select 12 units from the following:

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<th>Title</th>
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<tbody>
<tr>
<td>ANTH 174</td>
<td>Anthropology of Food</td>
</tr>
<tr>
<td>ANTH 274</td>
<td>Environmental Anthropology</td>
</tr>
<tr>
<td>ECON 110</td>
<td>Cost Benefit Analysis</td>
</tr>
<tr>
<td>ECON 130</td>
<td>Public Finance</td>
</tr>
<tr>
<td>ECON 132</td>
<td>State and Local Government Finance</td>
</tr>
<tr>
<td>ECON 150</td>
<td>Labor Economics</td>
</tr>
<tr>
<td>ECON 152</td>
<td>Economics of Education</td>
</tr>
<tr>
<td>ECON 153</td>
<td>Health Economics</td>
</tr>
<tr>
<td>ENVS 130</td>
<td>Environmental Toxicology</td>
</tr>
</tbody>
</table>
### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Core Courses (22 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FACS 50</td>
<td>Research: Methods and Application in Family and Consumer Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FACS 100</td>
<td>Family Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>FACS 140</td>
<td>Family Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>FACS 168</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>FASH 30</td>
<td>Fashion and Human Environment</td>
<td>3</td>
</tr>
<tr>
<td>NUFD 10</td>
<td>Nutrition And Wellness</td>
<td>3</td>
</tr>
<tr>
<td>SOC 8</td>
<td>Sense and Nonsense in Social Issues and Research</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 1</td>
<td>Introduction to Statistics</td>
<td></td>
</tr>
<tr>
<td>FACS 195A</td>
<td>Field Study: Selected Areas in Family and Consumer Sciences</td>
<td>1</td>
</tr>
<tr>
<td><strong>Required Lower Division Courses (15 Units)</strong></td>
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</tr>
<tr>
<td>FACS 52</td>
<td>Field Study: Selected Areas in Family and Consumer Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or CHDV 30</td>
<td>Field Study: Selected Areas in Family and Consumer Sciences</td>
<td>3</td>
</tr>
<tr>
<td><strong>Required Upper Division Courses (13 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FACS 141</td>
<td>Family Finance</td>
<td>3</td>
</tr>
<tr>
<td>FACS/CHDV 154</td>
<td>Field Study: Selected Areas in Family and Consumer Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or FACS 155</td>
<td>Field Study: Selected Areas in Family and Consumer Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FASH 130</td>
<td>History Of Fashion</td>
<td>3</td>
</tr>
<tr>
<td>or FASH 137</td>
<td>Clothing, Society, and Culture</td>
<td></td>
</tr>
<tr>
<td>NUFD 110</td>
<td>Food Production and Sustainability</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units**: 50

---

1. Select electives with advisor approval. No more than 6 units of courses numbered 100-199 may be counted toward the degree.
2. Option for MS/DI Students Only
Graduation Requirements

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking 2, 3</td>
<td>0-3</td>
</tr>
<tr>
<td>A4</td>
<td>Math Concepts</td>
<td>0-3</td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>0-3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units)</td>
<td>3</td>
</tr>
<tr>
<td>C1</td>
<td>Arts 2</td>
<td>0</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>D1</td>
<td>Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D2</td>
<td>Area D Course</td>
<td>0</td>
</tr>
<tr>
<td>D3</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>E1</td>
<td>Understanding Personal Development</td>
<td>0</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>31-37</td>
</tr>
</tbody>
</table>

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Family Life Education

College of Social Sciences and Interdisciplinary Studies

Program Description

The goal of the certificate is to prepare students to provide family life education in a variety of settings such as schools, churches, youth programs, health care, and family service agencies. The certificate program is designed to cover the ten family life education content areas delineated by the National Council on Family Relations NCFR. The certificate is not a teaching credential. In conjunction with a Bachelor or Master degree or a state teaching credential, it may be helpful in obtaining employment as a Family Life Educator.

Note: This program is taken concurrently with established degree requirements. The majority of courses for the certificate program are applicable toward course requirements for a Bachelor's degree in Family Studies and Human Development. The certificate is not a teaching credential. In conjunction with a Bachelor or Master degree or a state teaching credential, it may be helpful in obtaining employment as a Family Life Educator.

Admission Requirements

1. Students must either be in a degree program at Sacramento State or must apply for graduate admission to the University.
2. Both undergraduates and graduate students must have a GPA of at least 2.5.
3. Students must meet with a Family Studies and Human Development major advisor for planning and verification that certificate requirements are met.

Program Requirements

1. Complete a baccalaureate degree program with a major in Family Studies and Human Development or a related field.
2. A GPA of 3.0 (B grade or higher) must be attained for all courses taken in the program.
3. At least 9 of the 21 required units must be taken in residence at Sacramento State.

National Council on Family Relations Family Life Content Areas
- Families and Individuals in Societal Contexts
- Internal Dynamics of Families
- Human Growth and Development Across the Lifespan
- Human Sexuality
- Family Resource Management
- Interpersonal Relationships
- Parent Education and Guidance
- Family Law and Public Policy
- Professional Ethics and Practice
- Family Life Education Methodology

Career Possibilities
The Sacramento State certificate in Family Life Education can stand alone or serve as a step toward national certification through the National Council on Family Relations (NCFR). Family Life Educators have employment opportunities in a variety of public service areas: social services, health and welfare, recreation, youth programs, community action, preschool/daycare, after school programs, drug/alcohol rehabilitation centers, senior citizens programs, military family support, parent education, community education, extension services, and family service agencies. For information on certification at the national level see www.ncfr.org (http://www.ncfr.org/).

Contact Information
Department of Family and Consumer Sciences
Mariposa Hall 3000
(916) 278-6393
facs@csus.edu

Certificate in Family Life Education
Units required for Certificate: 21

Program Description
(Program to provide description)

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>FSHD 50</td>
<td>The Family and Social Issues</td>
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<tr>
<td>FACS 140</td>
<td>Family Resource Management</td>
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<tr>
<td>FSHD 154</td>
<td>Issues in Parenting</td>
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<td>FSHD 155</td>
<td>Family Life Education</td>
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<td>Select one of the following:</td>
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<tr>
<td>PUBH 134</td>
<td>Understanding Human Sexuality</td>
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<tr>
<td>NURS 160</td>
<td>Human Sexuality</td>
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<tr>
<td>PSYC 134</td>
<td>Psychology of Human Sexuality</td>
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<td>Select one of the following:</td>
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<td>FSHD 52</td>
<td>The Child In The Family</td>
<td>3</td>
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<tr>
<td>FSHD 152</td>
<td>Adolescent Development</td>
<td>3</td>
</tr>
</tbody>
</table>

FSHD 159 Adulthood and Aging in Human Development 3
FACS 195C Internship 3
Total Units 30

Gerontology

College of Social Sciences and Interdisciplinary Studies

Program Description
The Gerontology Program provides an applied interdisciplinary approach to studying the human aging process and the challenges encountered by older adults and their families as they interact in contemporary society. The curriculum is anchored in life course and humanistic theory, and concentrates on the needs of both healthy and chronically ill elders.

In order to better understand life's complexities, the program guides students to critically examine and explore the issues, impacts, and interventions for elders and their families from an interdisciplinary framework. Throughout coursework, students are exposed to the biopsychosocial-cultural and gender contexts that exist individually and in aggregate groups within society. Course content challenges all students to identify and analyze existing generalizations, theories, and concepts about aging in order to develop valid understandings based on current research in the discipline. Throughout the program, students are encouraged to actively advocate concerning elder issues.

The program offers a major and minor in Gerontology. Students are encouraged to blend other disciplines of study with Gerontology in order to facilitate varied career alternatives. They are helped in constructing an individual (elective) program of study within their major that reflects their own interests. Using elective courses to begin to build a minor in this area is highly encouraged. The program also assists students in constructing a special master's degree.

Career opportunities for gerontologists are growing rapidly. Employers are realizing the benefits of employing people who have backgrounds in aging along with abilities to address the needs of their older consumers. Gerontology graduates enter careers in both the public and private sectors with healthy and chronically ill elders. The careers are as varied as the goals of the individual and the needs of the organization. Graduates often work in such positions as counselors, advocates, analysts in state agencies for older adults, social workers, nurses, and information and referral specialists. Others have created their own careers in such areas as dental hygiene, human services, food services, travel, and Web design.

Gerontology graduates also often go on to graduate and professional schools in fields such as sociology, psychology, counseling, nursing, criminal justice, family services, and social work.

Degree Programs
BS in Gerontology (p. 1011)
Minor in Gerontology (p. 1013)
Certificate in Gerontology (Graduate) (p. 1013)

Accreditation
In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of
Science in Gerontology is also individually accredited by the Association of Gerontology in Higher Education.

Notice to Students RE: Professional Licensure and Certification
California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states' educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state's requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features
The focus of the curriculum is upon the biological/psychological/social aspects of aging; social policies; services and research in aging; and practice, administration, and program development, implementation and evaluation skills related to aging.

- An integrated interdisciplinary program of courses and field experiences leads to a Bachelor of Science degree with a Major or Minor in Gerontology.
- Multiple major courses include integrated Service Learning to connect theory, practice, and community service.
- Individuals are prepared for careers in varied gerontological practice areas based upon demographic projections of need for personnel in planning, administering, coordinating, and delivering older adult services.
- Gerontological practitioners' awareness of the effects of social policy on aging individuals and families is emphasized.
- The program helps facilitate students' progression from community colleges to the University when acquiring a BS degree in Gerontology.
- Individuals currently working in the community are afforded opportunities to learn advanced skills and acquire professional training in gerontology.
- The strong relationships between the Gerontology Program and Sacramento area agencies and institutions planning or delivering services for older persons, and their families are key components to this program’s success.
- The Gerontology Program helps enhance the interest and commitment of diverse faculty and the University while providing a vehicle for collaboration regarding community engagement, interdisciplinary study and research in the field of Gerontology.
- The Program provides comprehensive academic preparation for graduate study in Gerontology or other related fields.

Potential Career Possibilities
Counselor · Adult Protective Services · Assessment/Intake Case Worker · California Department of Aging · Case Manager · Consultant · Department of Health Services · Department of Social Services-Older Adult Educator · Guardian/Conservator Staff · Information and Referral Specialist · Legal Aid Assistant · Ombudsman/Advocate · Program Activities Director · Program Specialist · Senior Community Outreach · Geriatric Social Worker · Geriatric Clinical Nurse · Rehabilitation/Job Training Agencies · Senior Retirement/Adult Day Care Centers · Area Agencies on Aging

Contact Information
Donna Jensen, Director
Dixie Nolasco, Administrative Support Coordinator
Amador Hall 550B
(916) 278-7163,
FAX: (916) 278-3855
dnolasco@csus.edu
www.csus.edu/gero (http://www.csus.edu/gero/)

ABAH, TERESA
JENSEN, DONNA
KOSS, CATHERYN

GERO 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provide students with the opportunity to interact with fellow students and the seminar leader and to build a community of academic and personal support, as well as explore gerontological concepts needed to respond to demographic changes in today’s world.

GERO 100. Aging Issues in Contemporary America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Introduction to the field of Gerontology and how the discipline addresses society’s aging needs. An examination of current issues in gerontology using a life span perspective focusing on older adults’ needs/concerns along life’s continuum in various environments. Major topics include implications of the demographic imperative, common aging changes/conditions, myths and stereotypes, effects of health/illness on individual and family roles, basic social issues and policies arising from the graying of America, media, cultural and gender influences.

GERO 101. Older Adult Services and Strategies. 3 Units
Term Typically Offered: Fall, Spring

Exploration and analysis of the older adult service continuum within the context of changing diverse societal needs, service availability and accessibility, current public policy, and administrative and management issues facing care providers. A multidisciplinary examination of the spectrum of services and programs targeted for older adults and their families. Includes information and referral processes and agencies, recreational and social options, housing alternatives, in-home, residential and skilled care options, including health care eligibility criteria, funding sources, and adult protective services.

Note: This is a service learning course.
GERO 102. Social Policy for an Aging Society. 3 Units
Term Typically Offered: Fall, Spring

Explores context and process for policy making by national and California state governments including ethical dimensions. Applications are developed from students' and instructor's areas of interest including K-12 and higher education, land-use policy, and aging issues such as elder advocacy, Social Security, and Medicare/Medicaid. Provides background and skills for entry level positions in public or non-profit organizations. Cross Listed: PPA 100; only one may be counted for credit.

GERO 103. Applied Care Management in Gerontological Practice. 3 Units
Term Typically Offered: Fall, Spring

Students will analyze issues, services, methods, and interventions related to practice for older adult care, their families, and caregivers. Outcomes include understanding the of unique characteristics/needs of older adults, systems approach to working with older adults, issues affecting service delivery (diversity, gender, ethics, special health, mental health needs), basic practice skills for effective service delivery to older adults and families/caregivers, attitudes and roles when working with older adults, and the business practices of geriatric care management.

Note: This is a service learning course.

GERO 121. Strategies for Optimal Aging. 3 Units
Term Typically Offered: Fall, Spring

This course is an in-depth, interdisciplinary, and holistic exploration of health promotion and adaptation paradigms that facilitate optimal and productive longevity. Hardiness and self-efficacy theories along with expectations and experiences enhancing quality of life are explored. Interactions among such variables as activity, diet, exercise, work/leisure, attitudes/beliefs, humor, living environments, spirituality, and social networks are investigated within the contexts of gender, economic, and cultural perspectives.

Cross listed: GERO 221

GERO 122. Interprofessional Approaches to Health Care in Older Adults. 3 Units
Term Typically Offered: Fall, Spring

Offers in-depth study/anlalysis of prevalent pathophysiological-based diseases and psychological disorders commonly experienced by older adults and frail elder populations. Disease/disorder causes and the effects of chronic illness on individuals' activities of daily living, sexuality, relationships, and coping abilities with changing lifestyles are examined using a life course framework and evidenced-based research. Assessment tools, lab value changes, medication needs, complications/disabilities, traditional/alternative treatments and ethical issues arising from meeting needs are investigated along with implications for caregivers. Paired Course: GERO 222

GERO 123. Research on Aging & the Life Course. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Analysis, evaluation, and application of existent gerontological research. Hands-on practice carrying out aging-related research projects, including defining the research question, selecting data collection tools, collecting and analyzing quantitative and qualitative data, and presenting results in narrative and visual formats. Special emphasis on connecting gerontological theory, research, and interdisciplinary practice, accommodating participants with sensory, physical, or cognitive limitations, and ethical issues.

GERO 124. Perspectives on Death and Dying. 3 Units
Prerequisite(s): Student's academic level must be Junior of higher to enroll in this class.
Term Typically Offered: Fall, Spring

Examination of the beliefs, attitudes, and behaviors associated with death and dying. Topics covered include children's and adult's concepts of dying and death; causes and types of death; self-destructive behavior; grief and mourning in the dying person and their survivors; physicians' aid in dying and other legal and ethical issues; and cross-cultural and historical perspectives on death.

Cross listed: PSYC 151

GERO 125. Moving Toward Equity in California Aging Policy and Practice. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course examines California's state programs, services, and funding streams that support low-income older adults and persons with disabilities. It is focused on addressing equity, parity, funding and access. Students will be introduced to California's innovative Master Plan for Aging. Through studying past shortfalls and new approaches, this course will inform a new and diverse workforce in order to serve historically underserved communities, including BIPOC, Latinx, API, and LGBTQ+.

GERO 130. Gerontology Practicum. 3 Units
Prerequisite(s): 24 Major units including GERO 101, GERO 102, GERO 103, GERO 121, GERO 122 and instructor permission.
Term Typically Offered: Fall, Spring

Supervised practicum experience in a community agency planning for or delivering professional services to older adults. This practicum experience is part of two culminating courses for the major and focuses on application of the interdisciplinary nature of the discipline while affording students direct, hands on experiences. Includes a field seminar. Seminar discussions focus on the application of gerontological concepts derived from all gerontology courses and are applied to each student's specific practicum area.

Note: This is a service learning course.

Credit/No Credit
GERO 131. Gerontology Capstone Practicum. 3 Units
Prerequisite(s): 36 Major units including GERO 101, GERO 102, GERO 103, GERO 121, GERO 122, GERO 130 and instructor permission.
Term Typically Offered: Fall, Spring
Supervised internship experience in a community agency planning for or delivering professional services to older adults. This capstone practicum experience builds on the first internship course and is the final culminating course for the major and focuses on advanced application of the interdisciplinary nature of the discipline while affording students direct, hands-on experiences. Includes a field seminar. Seminar discussions focus on the application of gerontologic concepts derived from all gerontology courses and are applied to each student’s specific Practicum area.
Note: This is a service learning course. Minors may take this course without taking GERO 130
Credit/No Credit
GERO 199. Special Problems. 1 - 3 Units
Prerequisite(s): Advanced approval of project goal and objectives by program director.
Term Typically Offered: Fall, Spring
Independent research, project, or directed reading.
Note: Open to students who are capable of independent work. A maximum of 3 units may count toward elective major requirements.
Credit/No Credit
GERO 200. Adaptation To Age Related Changes, Illnesses and Caregiving. 3 Units
Term Typically Offered: Fall, Spring
Exposure to and analysis of positive and negative functional consequences arising from age related changes and illnesses in elders. Content elucidates changes and their effects on elders’ levels of wellness using interdisciplinary research and holistic, life course frameworks. Screening assessments, interventions, community resources and services, and ethical issues are addressed for each topic. Caregiving issues and solutions are explored within life span and problem solving frameworks.
GERO 222. Interprofessional Approaches to Health Care in Older Adults. 3 Units
Term Typically Offered: Fall, Spring
This course examines prevalent health issues commonly experienced by older adults. The course utilizes an interprofessional evidence-based approach to address the impact of chronic illness and related issues on older adults, their families, and caregivers. The focus of this course is on health promotion and includes holistic therapies and ethical issues that arise in late-life care.
GERO 225. Moving Toward Equity in California Aging Policy & Practice. 3 Units
Term Typically Offered: Fall, Spring, Summer
This course examines California’s programs, services, and funding streams that support low-income older adults and persons with disabilities. Students will be introduced to California’s innovative Master Plan for Aging with its focus on equity, parity, and access. Using analytical, evaluative and leadership skills, students mentor GERO 125 students to address policy and program needs of vulnerable constituencies. This course will inform a new and diverse workforce prepared to engage underserved communities, including BIPOC, Latinx, API, and LGBTQ+.
GERO 295. Internship/Project. 3 Units
Prerequisite(s): GERO 200, GERO 221, GERO 222.
Term Typically Offered: Fall, Spring
Supervised fieldwork internship or project that is a culminating experience and applies learned gerontological theories and concepts in a community setting where planning, developing, or delivering services to older adults or their families occurs. Students choose an area of practice and negotiate their learning experiences or project with their faculty advisor and field supervisor. Advanced approval of project goal and objectives by program director are required.
Credit/No Credit
GERO 299. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Independent research, project, or directed reading. Open to students who are capable of independent work. A maximum of 3 units may count toward elective major requirements. Advanced approval of project goal and objectives by program director.
Credit/No Credit
BS in Gerontology
Units required for Major: 48
Total units required for BS: 120
Program Description
The Gerontology Program provides an applied interdisciplinary approach to studying the human aging process and the challenges encountered by older adults and their families as they interact in contemporary society. The curriculum is anchored in life course and humanistic theory, and concentrates on the needs of both healthy and chronically ill elders and their families.
Minimum Grade Requirement
Students must receive a “C” or better in all major and multidisciplinary core/elective courses.

Program Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GERO 101</td>
<td>Older Adult Services and Strategies</td>
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<td>GERO 102/PPA 100</td>
<td>Social Policy for an Aging Society</td>
<td>3</td>
</tr>
<tr>
<td>GERO 103</td>
<td>Applied Care Management in Gerontological Practice</td>
<td>3</td>
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<tr>
<td>GERO 121</td>
<td>Strategies for Optimal Aging</td>
<td>3</td>
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<tr>
<td>GERO 122</td>
<td>Interprofessional Approaches to Health Care in Older Adults</td>
<td>3</td>
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<td>GERO 130</td>
<td>Gerontology Practicum</td>
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<tr>
<td>GERO 131</td>
<td>Gerontology Capstone Practicum</td>
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Research Elective (see advisor) (3 Units)

Select one of the following:

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<td>ECON 140</td>
<td>Quantitative Economic Analysis</td>
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<td>ETHN 194</td>
<td>Research in Ethnic Studies</td>
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<tr>
<td>GERO 123</td>
<td>Research on Aging &amp; the Life Course</td>
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<tr>
<td>NURS 170</td>
<td>Foundations for Evidence-Based Nursing Practice</td>
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<tr>
<td>RPTA 110</td>
<td>Research and Evaluation in Recreation, Parks and Tourism</td>
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<tr>
<td>SOC 102</td>
<td>Research Methods in Sociology</td>
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<td>SWRK 111</td>
<td>Research Methods and Program Evaluation</td>
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Interdisciplinary Core (15 Units)

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<td>ETHN 133</td>
<td>Crosscultural Aging in America</td>
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<td>FACS 141</td>
<td>Family Finance</td>
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<td>PSYC 151</td>
<td>Psychological Aspects of Death and Dying</td>
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<td>RPTA 117</td>
<td>Recreation Therapy and Contemporary Aspects of Disability</td>
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<tr>
<td>SWRK 151</td>
<td>Health Services and Systems</td>
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Electives (9 Units)

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<tbody>
<tr>
<td>GERO 100</td>
<td>Aging Issues in Contemporary America</td>
<td>3</td>
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<tr>
<td>PUBH 116</td>
<td>Public Health Policy, Management &amp; Administration</td>
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<td>PUBH 134</td>
<td>Understanding Human Sexuality</td>
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<td>HROB 101</td>
<td>The Management of Contemporary Organizations</td>
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<tr>
<td>KINS 136</td>
<td>Sport And Aging</td>
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<td>ENGL 120S</td>
<td>Writing in the Social Sciences</td>
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<tr>
<td>FSHD 150</td>
<td>Family Stress and Coping: Multicultural Focus</td>
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<tr>
<td>FSHD 159</td>
<td>Adulthood and Aging in Human Development</td>
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<tr>
<td>NUFD 113</td>
<td>Nutrition And Metabolism</td>
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<td>NUFD 119</td>
<td>Nutrition: Adolescence Through Older Adulthood</td>
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<tr>
<td>PUBH 150</td>
<td>Aging and Health</td>
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<td>PSYC 150</td>
<td>Psychological Aspects of Aging</td>
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<tr>
<td>PSYC 152</td>
<td>Psychological Aspects of Health, Wellness, and Illness</td>
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<tr>
<td>SOC 146</td>
<td>Sociology of Aging</td>
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</table>

Notes:

- Additional optional courses which are recommended to support the Gerontology major are the following:

<table>
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<tr>
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<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GERO 21</td>
<td>First Year Seminar: Becoming an Educated Person</td>
<td>3</td>
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<tr>
<td>BIO 20</td>
<td>Biology: A Human Perspective</td>
<td>3</td>
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<td>CHAD 30</td>
<td>Human Development</td>
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<tr>
<td>FSHD 50</td>
<td>The Family and Social Issues</td>
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<tr>
<td>NURS 10</td>
<td>Health Care: Issues and Delivery Systems</td>
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<td>PSYC 2</td>
<td>Introductory Psychology</td>
<td>3</td>
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<tr>
<td>PSYC 8</td>
<td>Methods of Psychology</td>
<td>3</td>
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<tr>
<td>RPTA 106</td>
<td>Introduction to Inclusive Recreation and Recreation Therapy</td>
<td>3</td>
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<tr>
<td>SOC 1</td>
<td>Principles of Sociology</td>
<td>3</td>
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<tr>
<td>SOC 101</td>
<td>Introduction to Statistics for Sociologists</td>
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<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td>3</td>
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<tr>
<td>SWRK 110</td>
<td>Statistics and Research for Social Workers</td>
<td>3</td>
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</table>

Major Core courses have the potential of offering a one unit Service Learning (SL) option for each of the three theory courses (GERO 102, GERO 121 and GERO 122 that do not already include SL. These units could be combined and serve as one elective (GERO 199) if there is an approved written plan by the student and academic advisor prior to enrolling in the course.

General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
</table>
| Area A: Basic Subjects (9 Units)
| A1 - Oral Communication                                      | 3     |
| A2 - Written Communication                                   | 3     |
| A3 - Critical Thinking                                       | 3     |
| Area B: Physical Universe and Its Life Forms (13 Units)
| B1 - Physical Science                                        | 3     |
| B2 - Life Forms                                               | 3     |
| B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) | 1     |
| B4 - Math Concepts                                            | 3     |
| B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. | 3     |
| Area C: Arts and Humanities (12 Units)
| C1 - Arts                                                     | 3     |
| C2 - Humanities                                               | 3     |
| C1/C2 - Area C Course                                        | 3     |
| C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. | 3     |
The Gerontology Program provides an applied interdisciplinary approach to studying the human aging process and the challenges encountered by older adults and their families as they interact in contemporary society. The curriculum is anchored in life course and humanistic theory, and concentrates on the needs of both healthy and chronically ill elders. Candidates must maintain an overall GPA of 3.0 in courses submitted for the certificate.

Graduate students wishing to pursue independent study focusing on aspects of Gerontology are encouraged to also take GER 299: Special Problems.

Eligibility Information
Students must either be in a graduate degree program at Sacramento State or must apply for graduate admission to the University.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 101</td>
<td>Older Adult Services and Strategies</td>
<td>3</td>
</tr>
<tr>
<td>GER 200</td>
<td>Adaptation To Age Related Changes, Illnesses and Caregiving</td>
<td>3</td>
</tr>
<tr>
<td>GER 221</td>
<td>Strategies for Optimal Aging</td>
<td>3</td>
</tr>
<tr>
<td>GER 222</td>
<td>Interprofessional Approaches to Health Care in Older Adults</td>
<td>3</td>
</tr>
<tr>
<td>GER 295</td>
<td>Internship/Project</td>
<td>3</td>
</tr>
<tr>
<td>GER 102/</td>
<td>Social Policy for an Aging Society</td>
<td>3</td>
</tr>
<tr>
<td>PPA 100</td>
<td></td>
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</tr>
<tr>
<td>or GER 103</td>
<td>Applied Care Management in Gerontological Practice</td>
<td></td>
</tr>
</tbody>
</table>

Total Units: 18

Minor in Gerontology

Units required for Minor: 21

Program Description
The Gerontology Program provides an applied interdisciplinary approach to studying the human aging process and the challenges encountered by older adults and their families as they interact in contemporary society. The curriculum is anchored in life course and humanistic theory, and concentrates on the needs of both healthy and chronically ill elders.

Minimum Grade Requirement
Students must receive a "C" or better in all Gerontology Minor courses.

Certificate in Gerontology

Units required for Certificate: 18

Program Description
The Gerontology Program provides an applied interdisciplinary approach to studying the human aging process and the challenges encountered by older adults and their families as they interact in contemporary society.
Interdisciplinary Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

The Interdisciplinary Studies program recognizes that some subject matter is more thoroughly explored by drawing on various perspectives and methodologies from more than one discipline. Students, with faculty supervision, engage learning opportunities that encourage combining a range of information and experiences into a challenging individualized learning project. In addition, Interdisciplinary Studies is the administrative home to the Military Studies Minor, the Peace Corps Prep Certificate, and field experience courses associated with the Peer Health Educator Internship Program. The office administering, guiding, reviewing, and monitoring the interdisciplinary efforts, when they cross College or Divisional lines, is that of the Dean of the College of Social Sciences and Interdisciplinary Studies. Offerings are listed under the heading Interdisciplinary (ID) in the Class Schedule. Questions pertaining to the establishment and “equivalency” of courses should be directed to the Dean of the College of Social Sciences and Interdisciplinary Studies.

Contact Information

Dianne Hyson, Dean
Marya C. Endriga, Associate Dean
Amador Hall 255
(916) 278-6504
www.csus.edu/ssis (http://www.csus.edu/ssis/)

Labor Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

The Labor Studies Program is concerned with the world of work, workers, and their organizations. It investigates the cultural, economic, and political forces which provide the environment in which people make a living. It is an inter-disciplinary program which combines broad perspectives with specific skills.

The program emphasizes the world of work from the view of the individual in the workplace, the labor market, and as a member of a work group or labor union. The roles of employers, government, and labor unions, as adversaries and cooperators in an increasingly competitive world, are covered. Courses combine analytical and practical elements, bridging academia with the world of work.

Degree Program

Minor in Labor Studies (p. 1014)

Contact Information

Charles Varano, Coordinator
Amador Hall 454D
(916) 278-6675

LBRS 100. Labor and the American Social Structure. ♦ 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Introduction to the study of labor in the U.S., including the nature of work, characteristics of the work force, and an overview of contemporary labor and industrial relations systems within the framework of current U.S. economic and political developments.
Cross Listed: SOC 176; only one may be counted for credit.

LBRS 195. Labor Studies Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience or research in relevant institutions providing an opportunity to apply classroom theories and principles to the "real world." Partial supervision may be supplied by host institution. Requires approval of the Labor Studies Coordinator.
Credit/No Credit

LBRS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students competent to carry on individual work under the direction of a faculty sponsor. Admission requires approval of the faculty sponsor and the Labor Studies Coordinator.
Credit/No Credit

Minor in Labor Studies

Units required for Minor: 21

Program Requirements

School of Social Sciences and Interdisciplinary Studies

Program Description

The Labor Studies Program is concerned with the world of work, workers, and their organizations. It investigates the cultural, economic, and political forces which provide the environment in which people make a living. It is an inter-disciplinary program which combines broad perspectives with specific skills.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core Courses (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LBRS 100/</td>
<td>Labor and the American Social Structure ♦</td>
<td>3</td>
</tr>
<tr>
<td>SOC 176</td>
<td></td>
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<tr>
<td>Select two of the following:</td>
<td>6</td>
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</tr>
<tr>
<td>ECON 150</td>
<td>Labor Economics</td>
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<tr>
<td>HIST 188</td>
<td>American Labor History</td>
<td></td>
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</tbody>
</table>
HROB 157  Labor Relations
SOC 175  Work and Occupations
WGS 138  Women and Work

Electives (12 Units)
Select four of the following:  12

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 104</td>
<td>Introduction to the United States Economy</td>
</tr>
<tr>
<td>HROB 153</td>
<td>Employment Law</td>
</tr>
<tr>
<td>POLS 139A</td>
<td>Globalization</td>
</tr>
<tr>
<td>PSYC 169</td>
<td>Industrial Psychology</td>
</tr>
<tr>
<td>SOC 120</td>
<td>Ethnic and Race Relations</td>
</tr>
<tr>
<td>SOC 122</td>
<td>Immigration Studies</td>
</tr>
<tr>
<td>SOC 164</td>
<td>Sociology of Globalization</td>
</tr>
</tbody>
</table>

Total Units  21

Note: Electives may be substituted for some required courses with approval of the Labor Studies Coordinator.

Liberal Studies

College of Social Sciences and Interdisciplinary Studies

Program Description
The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-credential and General.

- The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The major compromises the core section, with courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The pre-credential program requires a 12-unit area of focus.

- The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an advisor. Advisors meet with an advisor at least once each semester with students to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisors are located in Lassen Hall 2008, (916) 278-6342.

Degree Program
BA in Liberal Studies (p. 1016)

Accreditation
In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Bachelor of Arts in Liberal Studies (pre-credential) is also individually accredited by the California Commission on Teacher Credentialing (CCTC). Early planning is strongly advised to prepare students to apply to the professional education program. Details about multiple subject credential programs and regular information sessions are provided by the Teaching Credentials Office in Eureka Hall 401, (916) 278-6639.

Notice to Students RE: Professional Licensure and Certification
California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Career Possibilities
The Liberal Studies major provides students with a wide variety of career opportunities and options. Liberal Studies provides essential learning employers want for workforce readiness: knowledge of human cultures and the physical and natural world, intellectual and practical skills, personal and social responsibility, and integrated learning.

Contact Information
Kristin Van Gaasbeck, Program Director
Lassen Hall 2008
(916) 278-6342
www.csus.edu/labs

Faculty Advisors
RECHS, ADAM
SEO, MI-SUK
ANDEREgg, KRISTEN
ELCE, KIMBERLY
WISCONS, TOPAZ
Requirements for Areas of Emphasis

The Liberal Studies major requires that students complete an Area of Emphasis. All Areas of Emphasis require a minimum of 12 units, 3 of which may overlap with the core course requirements. Students may not combine courses from different areas of emphasis.

Minors may be used in lieu of an Area of Emphasis. Students interested in pursuing a Minor should discuss this option with their Liberal Studies advisor and with an advisor from the Minor program.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORE</td>
<td>Reading, Language and Literature</td>
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<tr>
<td>COMS 5</td>
<td>The Communication Experience</td>
<td>3</td>
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<tr>
<td>or COMS 4</td>
<td>Introduction to Public Speaking</td>
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<tr>
<td>ENGL 5</td>
<td>Accelerated Academic Literacies</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 5M</td>
<td>Accelerated Academic Literacies - Multilingual</td>
<td></td>
</tr>
<tr>
<td>or ENGL 11</td>
<td>Academic Literacies II</td>
<td></td>
</tr>
<tr>
<td>or ENGL 11M</td>
<td>Academic Literacies II-Multilingual</td>
<td></td>
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<tr>
<td>ENGL 16</td>
<td>Structure Of English</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 20</td>
<td>College Composition II</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 20M</td>
<td>College Composition II for Multilingual Students</td>
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<tr>
<td>ENGL 116A</td>
<td>Studies in Applied Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 116B</td>
<td>Children's Literary Classics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 17</td>
<td>An Introduction to Exploration, Conjecture, and Proof in Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107A</td>
<td>Fundamental Mathematical Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107B</td>
<td>Fundamental Mathematical Concepts</td>
<td>3</td>
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<tr>
<td>BIO 7</td>
<td>Introduction to the Science of Biology</td>
<td>4</td>
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<tr>
<td>CHEM 106</td>
<td>Chemical Concepts</td>
<td>3</td>
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<tr>
<td>GEOL 8</td>
<td>Earth Science</td>
<td>3</td>
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<td>GEOL 8T</td>
<td>Earth Science Lab for Teachers</td>
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<tr>
<td>PHYS 107</td>
<td>Conceptual Physics and Scientific Inquiry</td>
<td>4</td>
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<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis</td>
<td>3</td>
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<tr>
<td>or HIST 187</td>
<td>Topics in United States History 1600-1900</td>
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<tr>
<td>GEOG 100</td>
<td>Themes In World Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 17A</td>
<td>United States History, 1607-1877</td>
<td>3</td>
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<td>HIST 50</td>
<td>World History I: to 1500</td>
<td>3</td>
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<tr>
<td>HIST 132</td>
<td>Topics In World History</td>
<td>3</td>
</tr>
<tr>
<td>LBST 110</td>
<td>California Studies</td>
<td>3</td>
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<tr>
<td>POLS 1</td>
<td>Essentials Of Government</td>
<td>3</td>
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<tr>
<td>ART 133</td>
<td>Art Education for Children</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 101</td>
<td>Experiences In Music</td>
<td>3</td>
</tr>
<tr>
<td>THEA 118</td>
<td>Children's Theatre</td>
<td>3</td>
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<tr>
<td>KINS 172</td>
<td>Movement Education</td>
<td>3</td>
</tr>
<tr>
<td>PUBH 136</td>
<td>School Health Education</td>
<td>2</td>
</tr>
</tbody>
</table>

Minimum Grade Requirement

A minimum grade of “C-” is required in all courses applied to the Liberal Studies major.
Human Development

CHAD 35  Child and Adolescent Development  3

Integrative Study  3

Choose one of the following:

EDUC 121  Multicultural Children’s Literature
EDUC 160  Urban Education
EDUC 165  Sex Role Stereotyping in American Education
EDUC 170  Introduction to Bilingual Education: Policies, Principles, Programs, and Practices
HIST 161  The American Vision
HIST 169  Hollywood and America
HRS 162  American Space and Identity
HRS 168  Images Of America
WGS 136  Gender, Race, and Class

Field Experience

CHAD 35F  Human Development and Elementary Field Experience  3

Select one of the following:  3

EDUC 124A & EDUC 124B  Tutoring Children in Mathematics & Practicum
EDUC 125A & EDUC 125B  Tutoring Children in Reading & Practicum
EDUC 127A & EDUC 127B  Field Experience in After School STEM Programs & Practicum

The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).

Requirements for Area of Emphasis (12 Units)  2

Select one of the following areas. Areas MAY NOT be combined.  12

Art
Human Development
Linguistics
Literature
Mathematics
Multicultural Studies
Music
Natural Science
Physical Education
Theatre
United States History
World History

Total Units  101

1  The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.

2  Units may range from 98 - 101 depending on the Area of Emphasis a student chooses due to overlapping courses. Areas of Emphasis that have some overlapping courses with core requirements courses: Art, Human Development, Linguistics, Literature, Music, Natural Science, Physical Education, Theatre, United States History, and World History.

Art

Code  Title  Units

Required Courses (6 units):

ART 133  Art Education for Children (Required Courses (3 units))  3

Choose one of the following (3 units):

ART 135  Overview of Secondary Art Education
ART 137  Art for Exceptional Children
ART 148  Barrio Art for Ethnic Groups

Select two of the following (6 units):

ART 1A  Art, Religions, and Power before 1400
ART 1B  Art, Empires, and Cross-Cultural Exchange, 1400-1800
ART 1C  Global Modern and Contemporary Art
ART 2  History of Islamic Art
ART 3A  Traditional Asian Art
ART 3B  Modern and Contemporary Asian Art
ART 4  European Visual Traditions
ART 5  Art of the Americas
ART 7  Introduction to Art and Visual Culture
ART 20A  Beginning Drawing
ART 27  Beginning Color
ART 40B  Basic Printmaking: Etching
ART 40D  Basic Printmaking: Relief
ART 40E  Basic Printmaking: Silkscreen
ART 50  Beginning Ceramics
ART 53  Beginning Hand-Built Ceramics
ART 80  Materials Methods
ART 86  Clay Sculpture
ART 88  Beginning Sculpture
ART 97  Beginning Electronic Art

Total Units  12

Human Development

Code  Title  Units

Required Courses (6 units):

CHAD 35  Child and Adolescent Development  1  3
FSHD 50  The Family and Social Issues  3

Choose two of the following (6 units):

CHAD 128  Combined Research Methods in Human Development
CHAD 135  Culture and Human Development
CHAD 142  Development of Learning and Memory
CHAD 143  Mind and Brain in Developmental Context
CHAD 145  Controversial Issues in Childhood Development, Education, and Social Policy
CHAD 146  Fostering Healthy Youth Development
FSHD 150  Family Stress and Coping: Multicultural Focus
FSHD 152  Adolescent Development
SOC 156  Delinquency
SOC 166  The Family
SOC 169  Changing American Family
SOC 170  Sociology of Children and Adolescents
### BA in Liberal Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>SOC 185</td>
<td>Bullying as a Social Experience</td>
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<tr>
<td>SWRK 136</td>
<td>Poverty and Homelessness in America</td>
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<tr>
<td>SWRK 137</td>
<td>The Child and the Law</td>
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<tr>
<td>SWRK 138</td>
<td>Violence In The Family</td>
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<tr>
<td>SWRK 144</td>
<td>Working with LGBTQ+ Publics</td>
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<tr>
<td>SWRK 150</td>
<td>Welfare In America</td>
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<td>SWRK 153</td>
<td>Child Welfare Services</td>
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<td><strong>Total Units</strong></td>
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<tr>
<td></td>
<td><strong>Linguistics</strong></td>
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<tr>
<td>ENGL 116A</td>
<td>Studies in Applied Linguistics¹</td>
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<td>ENGL 110P</td>
<td>Second Language Learning and Teaching</td>
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<td>ENGL 110J</td>
<td>Traditional Grammar and Standard Usage</td>
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<td>ENGL 110Q</td>
<td>English Grammar for ESL Teachers</td>
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<tr>
<td>ENGL 125E</td>
<td>Academic Reading and Writing for Second Language Students</td>
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<td>ENGL 125F</td>
<td>Teaching Oral Skills</td>
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<tr>
<td></td>
<td><strong>Literature</strong></td>
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<td>ENGL 116B</td>
<td>Children's Literary Classics¹</td>
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<td>Select three of the following:</td>
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<tr>
<td>ENGL 40A</td>
<td>Introduction to British Literature I</td>
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<tr>
<td>ENGL 40B</td>
<td>Introduction to British Literature II</td>
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<tr>
<td>ENGL 50A</td>
<td>Introduction to American Literature I</td>
<td></td>
</tr>
<tr>
<td>ENGL 50B</td>
<td>Introduction to American Literature II</td>
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<td>ENGL 65</td>
<td>Introduction to World Literatures in English</td>
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<tr>
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<td><strong>Mathematics</strong></td>
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<tr>
<td>MATH 107C</td>
<td>Elementary Mathematics and the Learning Process</td>
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<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
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<td>Two additional courses in Mathematics (MATH) or Statistics (STAT) selected with a Liberal Studies major advisor, excluding MATH 10 and MATH 12.</td>
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<td><strong>Total Units</strong></td>
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<tr>
<td></td>
<td><strong>Multicultural Studies</strong></td>
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<tr>
<td>EDUC 170</td>
<td>Introduction to Bilingual Education: Policies, Principles, Programs, and Practices</td>
<td>3</td>
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<tr>
<td>ETHN 11</td>
<td>Introduction to Ethnic Studies</td>
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<tr>
<td>or ETHN 100</td>
<td>Ethnic America</td>
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<td>Select two from any of the following categories or one from each of two categories:</td>
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<tr>
<td></td>
<td>Chicano/Latino Emphasis</td>
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<td>ANTH 106</td>
<td>Culture and Personality of the Chicano Child</td>
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<td>ETHN 30</td>
<td>Introduction to Chicano/Latino Studies</td>
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<td>ETHN 130</td>
<td>Chicano/Mexican-American Experience</td>
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<td>ETHN 131</td>
<td>La Raza Studies</td>
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<td>ETHN 132</td>
<td>La Mujer Chicana</td>
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<td>HIST 178</td>
<td>Mexican-American History</td>
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<td>Asian American Emphasis</td>
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<td>ETHN 110</td>
<td>The Asian American Experience</td>
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<tr>
<td>ETHN 111</td>
<td>Southeast Asians in the US</td>
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<tr>
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<td>African American Emphasis</td>
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<tr>
<td>ETHN 170</td>
<td>Pan African Studies</td>
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<td>HIST 177</td>
<td>The African-American Experience, 1603-Present</td>
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<td></td>
<td>Native American Emphasis</td>
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<td>ETHN 140</td>
<td>Native American Experience</td>
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<td></td>
<td>Women's Studies Emphasis</td>
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<tr>
<td>HIST 167</td>
<td>History of American Women</td>
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<tr>
<td>WGS 85</td>
<td>Introduction to Women's &amp; Gender Studies</td>
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<tr>
<td>WGS 136</td>
<td>Gender, Race, and Class</td>
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<td>WGS 137</td>
<td>Women Of Color</td>
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<td></td>
<td><strong>Music</strong></td>
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<tr>
<td>MUSC 8</td>
<td>Basic Music</td>
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<tr>
<td>MUSC 101</td>
<td>Experiences In Music¹</td>
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<tr>
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<tr>
<td>MUSC 9</td>
<td>Music In World Cultures</td>
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<td>MUSC 10A</td>
<td>Survey of Music Literature I</td>
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<td>MUSC 10B</td>
<td>Survey of Music Literature II</td>
<td></td>
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<tr>
<td>MUSC 10C</td>
<td>Survey of Music Literature III</td>
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<td>MUSC 18</td>
<td>Music Appreciation</td>
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<tr>
<td>MUSC 118B</td>
<td>American Popular Music: Jazz History</td>
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<tr>
<td>MUSC 118C</td>
<td>History of Rock Music</td>
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<tr>
<td>MUSC 118D</td>
<td>Hip-Hop in Urban America</td>
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<tr>
<td>MUSC 119A</td>
<td>World Music: Asia</td>
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</tr>
<tr>
<td>MUSC 119B</td>
<td>World Music: Africa</td>
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<tr>
<td>MUSC 119C</td>
<td>World Music: Latin America</td>
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<tr>
<td>MUSC 127</td>
<td>The American Musical Theater</td>
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<tr>
<td>MUSC 129</td>
<td>American Society and Its Music</td>
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<tr>
<td></td>
<td><strong>Natural Science</strong></td>
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<tr>
<td>CHEM 106</td>
<td>Chemical Concepts¹</td>
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<td>Select three of the following:</td>
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<tr>
<td>ASTR 4A</td>
<td>Introduction to the Solar System</td>
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<tr>
<td>ASTR 4B</td>
<td>Introduction to Stars, Galaxies, and Cosmology</td>
<td></td>
</tr>
<tr>
<td>ASTR 131</td>
<td>The Solar System and Space Exploration</td>
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<tr>
<td>ASTR 132</td>
<td>Stars, Galaxies and Cosmology</td>
<td></td>
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<tr>
<td>ASTR 180</td>
<td>Through Space and Time in the Planetarium</td>
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<tr>
<td>BIO 103</td>
<td>Plants and Civilization</td>
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### Physical Education

<table>
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<tr>
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<tr>
<td><strong>REQUIRED COURSES (6 Units)</strong></td>
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<tr>
<td>KINS 138</td>
<td>Sport Pedagogy</td>
<td>3</td>
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<tr>
<td>KINS 172</td>
<td>Movement Education ¹</td>
<td>3</td>
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<tr>
<td><strong>ELECTIVE COURSES (6 Units)</strong></td>
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<tr>
<td>Select two from the following:</td>
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<tr>
<td>KINS 141</td>
<td>PRO ACT I - Dual Sports</td>
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<tr>
<td>KINS 142</td>
<td>Professional Activities II - Creative Movement and Dance</td>
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<tr>
<td>KINS 145</td>
<td>Pro Act III - Team Sports</td>
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<tr>
<td>KINS 148</td>
<td>ProAct V - Nontraditional Games and Sports</td>
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<tr>
<td>KINS 149</td>
<td>Professional Activities of Health and Skill Related Fitness</td>
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<td>KINS 177</td>
<td>Introduction to Adapted Physical Education</td>
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Total Units: 12

### Theatre

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<tr>
<td><strong>Select four of the following:</strong></td>
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<tr>
<td>THEA 1</td>
<td>Introduction To Theatre</td>
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<tr>
<td>or THEA 9</td>
<td>Appreciation Of Acting</td>
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<tr>
<td>THEA 115</td>
<td>Puppetry</td>
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<tr>
<td>or THEA 115</td>
<td>Multicultural Puppetry</td>
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<tr>
<td>THEA 118</td>
<td>Children's Theatre ¹</td>
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<tr>
<td>THEA 174</td>
<td>Multicultural Perspectives in American Theatre</td>
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Total Units: 12

### United States History

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<tbody>
<tr>
<td><strong>REQUIRED COURSES</strong></td>
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</tr>
<tr>
<td>HIST 17A</td>
<td>United States History, 1607-1877 ¹</td>
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</tr>
<tr>
<td>HIST 17B</td>
<td>United States History, 1877-Present ²</td>
<td></td>
</tr>
<tr>
<td><strong>ELECTIVE COURSES</strong></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
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</tr>
<tr>
<td>HIST 150</td>
<td>Colonial America</td>
<td></td>
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<tr>
<td>HIST 151</td>
<td>The Age of the American Revolution</td>
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<tr>
<td>HIST 152</td>
<td>Young Republic, 1790-1840</td>
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Total Units: 12

### World History

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<tr>
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<tr>
<td><strong>REQUIRED COURSES (6 Units)</strong></td>
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<tr>
<td>HIST 50</td>
<td>World History I: to 1500 ¹</td>
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<tr>
<td>HIST 51</td>
<td>World History from 1500 to the Present.</td>
<td>3</td>
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<tr>
<td><strong>ELECTIVE COURSES</strong></td>
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</tbody>
</table>
Select two from the following:

HIST 101A  Language and written culture in Ancient Greece
HIST 102A  Culture and Language in Modern Greece, 1821-1909
HIST 103  Mediterranean Europe: From the Renaissance to the European Union
HIST 105  Great Ages and Issues in Modern European History
HIST 107  History of the Physical Sciences
HIST 109  History of Modern Greece
HIST 110  The Ancient Near East: A Cultural History
HIST 111  Ancient Greece
HIST 112  Ancient Rome
HIST 113  Early Medieval Europe
HIST 114  Europe in the High Middle Ages
HIST 115  The Renaissance and Reformation in Europe
HIST 116  Europe, 1648-1815, The Age of Revolution
HIST 118A  World War I: Causes, Conduct, Consequences
HIST 119  Europe Since 1945
HIST 121  Democracy and Human Rights in the Era of the French Revolution and Napoleon
HIST 122A  History of Women in Western Civilization, Prehistory-Middle Ages
HIST 123  The Crusades
HIST 124B  European Warfare from the French Revolution to the Present
HIST 126  Evolution of Christianity to the Reformation
HIST 127  Evolution of Christianity Since the Reformation
HIST 128B  Tudor and Stuart England, 1485-1714
HIST 128C  British History, 1714-Present
HIST 129A  Medieval Russia
HIST 129B  Imperial Russia
HIST 129C  Twentieth Century Russia
HIST 130  The Fall Of Communism
HIST 131  History of Sexuality in Comparative Perspective
HIST 133  Twentieth-Century World History
HIST 134  The Rise and Fall of European Colonial Empires
HIST 135A  History Of Mexico To 1910
HIST 135B  Revolutionary and Modern Mexico
HIST 136  Spanish Civil War
HIST 137A  Latin American Revolutions in the Twentieth Century
HIST 137B  Latin American History in Film
HIST 138A  Colonial Latin America
HIST 138B  Modern and Contemporary Latin America
HIST 140  Modern East Asian Cinema
HIST 141  History of Africa Since 1800
HIST 142  History of Women in Africa
HIST 143A  Middle Eastern History to 1800
HIST 143B  The Modern Middle East
HIST 143C  Ottoman State and Society
HIST 144  Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder
HIST 145  South Asian History & Civilization
HIST 146A  Cultural History of Japan to 1800
HIST 146B  Modern Japan, 1800-present
HIST 146C  The History of Manga
HIST 147  History of Buddhism
HIST 148A  China: Antiquity to 1600 AD
HIST 148B  China, 1600 to Present
HIST 149  The Making of Modern Southeast Asia

Total Units 12

1 This course counts both toward the Area of Emphasis and major Core Course requirements. Students may overlap a maximum of 3 units toward both Core Course requirements and Area of Emphasis requirements. This is applicable towards these Areas of Emphasis: Art, Human Development, Linguistics, Literature, Music, Natural Science, Physical Education, Theatre, United States History and World History.

General Education Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
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<th>Units</th>
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<tbody>
<tr>
<td></td>
<td>Area A: Basic Subjects (3 Units)</td>
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<tr>
<td>A1</td>
<td>Oral Communication</td>
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<tr>
<td>A2</td>
<td>Written Communication</td>
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</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
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<tr>
<td></td>
<td>Area B: Physical Universe and Its Life Forms</td>
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</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
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</tr>
<tr>
<td>B2</td>
<td>Life Forms</td>
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<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
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<tr>
<td>B4</td>
<td>Math Concepts</td>
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<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td></td>
<td>Area C: Arts and Humanities</td>
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<tr>
<td>C1</td>
<td>Arts</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
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<tr>
<td>C1/C2</td>
<td>Area C Course</td>
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<td></td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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<tr>
<td></td>
<td>Area D: The Individual and Society</td>
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<tr>
<td></td>
<td>Area D Course</td>
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<tr>
<td></td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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</tr>
<tr>
<td></td>
<td>Area E: Understanding Personal Development</td>
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<td>Area E Course</td>
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<td></td>
<td>Area F: Ethnic Studies (3 Units)</td>
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<td></td>
<td>Area F Course</td>
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</tr>
<tr>
<td></td>
<td>Total Units</td>
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</tbody>
</table>
To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Graduation Requirements ¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (3 Units)</td>
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<tr>
<td>American Institutions: U.S. History ²</td>
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<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government ²</td>
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<tr>
<td>Writing Intensive (WI)</td>
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<tr>
<td></td>
<td>Graduation Requirements (required by Sacramento State) (6 Units)</td>
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<tr>
<td>English Composition II ²</td>
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<tr>
<td>Race and Ethnicity in American Society (RE) ²</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement ³</td>
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<td>6</td>
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</tbody>
</table>

¹ To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

² Required in Major; also satisfies Graduation Requirement.

³ If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required."

The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Degree Program
Minor in Military Studies (p. 1021)

Contact Information
Dianne Hyson, Dean
Marya C. Endriga, Associate Dean
Amador Hall 255
(916) 278-6504

Minor in Military Studies

Units required for Minor: 21

Program Description

The Military Studies Minor is an interdisciplinary minor of 21 units which provides a broad range perspective on a vital contemporary issue. The program focuses on the nature of human conflict, conflict resolution, international power relations, historical battles and campaigns, the military in domestic society, and myriad sub-topics. It enhances student exposure to, and understanding of, relevant military subjects. The Military Studies Minor is compatible with, and complements, several majors, i.e., Economics, Geography, Government, and History.

Program Requirements

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<th>Code</th>
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<tbody>
<tr>
<td></td>
<td>HIST 124A War &amp; Conflict: Ancient to Early Modern Europe ³</td>
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<tr>
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<td>HIST 124B European War &amp; Conflict from the French Revolution to the Present ³</td>
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<tr>
<td></td>
<td>Select one from the following regional background courses: 3</td>
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<tr>
<td></td>
<td>AERO 145A National Security and Preparation for Active Duty I</td>
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<tr>
<td></td>
<td>HIST 118A World War I: Causes, Conduct, Consequences</td>
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<tr>
<td></td>
<td>HIST 118B World War II: Causes, Conduct, Consequences</td>
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<td></td>
<td>HIST 153 Civil War and Reconstruction, 1840-1890</td>
<td></td>
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<tr>
<td></td>
<td>HIST 159 History of US Foreign Relations</td>
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<td></td>
<td>HIST 160 The United States in Vietnam, 1940-1975</td>
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<td>Select one from the following military-political affairs courses: 3</td>
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<tr>
<td></td>
<td>AERO 135B Leading People and Effective Communication II</td>
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<td>POLS 130 International Politics</td>
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<td>POLS 131 International Organization</td>
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<td>POLS 133 American Defense and National Security</td>
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<td>POLS 135 American Foreign Policy</td>
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<td>POLS 139G Intelligence and Espionage</td>
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<td>Select one from the following regional context courses: 3</td>
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<td></td>
<td>AERO 145B National Security and Preparation for Active Duty II</td>
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<td>ECON 193 Development Economics</td>
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<td>GEOG 121 United States and Canada</td>
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<td>GEOG 127 Geography Of Africa</td>
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<td>GEOG 128 Geography Of Europe</td>
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<td>POLS 147 Latin American Government and Politics</td>
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<td>POLS 148 Governments and Politics in the Middle East</td>
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<td>SOC 160 Asian Societies</td>
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<td></td>
<td>SOC 162 Middle Eastern Societies and Culture</td>
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<tr>
<td></td>
<td>SOC 163 Conflict, Oil and Development in the Middle East</td>
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</tbody>
</table>

Military Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

The Military Studies Minor is an appropriate and timely course of study for any student interested in defense policy, the military’s role in society, and military history. The successful completion of the minor will provide additional recognition for students wishing to understand these important subjects.

The Military Studies Minor is an interdisciplinary minor of 21 units which provides a broad range perspective on a vital contemporary issue. The program focuses on the nature of human conflict, conflict resolution, international power relations, historical battles and campaigns, the military in domestic society, and myriad sub-topics. It enhances student exposure to, and understanding of, relevant military subjects. The Military Studies Minor is compatible with, and complements, several majors, i.e., Economics, Geography, Political Science, and History. It is also compatible with the ROTC Aerospace Studies academic training program.
Peace and Conflict Resolution

**College of Social Sciences and Interdisciplinary Studies**

**Program Description**

Peace and Conflict Resolution is an interdisciplinary minor with most of its courses drawn from the Social Sciences. The courses introduce students to the processes of understanding and changing social conditions in order to lead to a more peaceful, just, and conflict-free society and world.

We find that war and oppression are subject to study and to change, and the university is an appropriate setting for the study and pursuit of alternate means of resolving conflicts.

The minor complements a number of majors, including many in the Humanities, Social Sciences, and Professional Schools.

**Degree Program**

Minor in Peace and Conflict Resolution (p. 1022)

**Special Features**

- A philosophy basic to the study of Peace and Conflict Resolution is praxis, the creative combination of analysis and action. Students in the program are encouraged to develop the knowledge base, skills, and political courage necessary for effective leadership in a democratic society.
- The program's faculty is widely published and active in a number of fields related to peace and conflict resolution.
- The goal of the program is to educate adults to be responsible and courageous citizens, and, if the students choose, to become professional peace workers. To achieve this end we practice an interdisciplinary approach, drawing upon courses and faculty in several academic areas including anthropology, communication studies, economics, education, government, environmental studies, ethnic studies, and women's and gender studies.

**Contact Information**

David R. Andersen-Rodgers, Program Coordinator
Tahoe Hall 3119
(916) 278-7095
david.andersen@csus.edu

**Minor in Peace and Conflict Resolution**

Units required for Minor: 21

### Program Requirements

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>POLS 143</td>
<td>Causes of War, Causes of Peace</td>
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</table>

Select three of the following:

- ANTH 105 Anthropology of War
- COMS 119 Conflict Resolution Through Communication
- CRJ 116 Restorative Justice and Conflict Resolution
- ENVS 112 International Environmental Problems
- POLS 132 War and Peace in the Nuclear Age
- POLS 134 War, Peace and the Mass Media

Select three elective courses from Peace and Conflict Resolution Studies with advisor approval. 9

**Total Units** 18

### Peace Corps Prep Certificate

Units Required for Certificate: 19-33

**Program Description**

The Peace Corps Prep Certificate program is a collaboration between Sacramento State and the Peace Corps; it provides curricular and co-curricular preparation for students who are interested in international development work and potential Peace Corps service.

**Admission Requirements**

Application forms are available from the program website (http://www.csus.edu/ipge/peacecorpsprep.html) or by emailing the Program Advisor (peace-corps-prep@csus.edu).

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ACCY 1</td>
<td>Accounting Fundamentals</td>
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<tr>
<td>ACCY 2</td>
<td>Managerial Accounting</td>
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<tr>
<td>ACCY 111</td>
<td>Intermediate Accounting I</td>
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<tr>
<td>ACCY 121</td>
<td>Cost Accounting</td>
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<tr>
<td>ACCY 122</td>
<td>Advanced Management Accounting</td>
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</tr>
<tr>
<td>ACCY 161</td>
<td>Government and Nonprofit Accounting</td>
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</tr>
<tr>
<td>ACCY 190</td>
<td>International Accounting</td>
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<tr>
<td>ANTH 109</td>
<td>Ecological and Evolutionary Approaches to Anthropology</td>
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<tr>
<td>ANTH 115</td>
<td>Origins of Agriculture</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<td>-------------</td>
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<tr>
<td>ANTH 174</td>
<td>Anthropology of Food</td>
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<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
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<tr>
<td>BIO 2</td>
<td>Cells, Molecules and Genes</td>
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<tr>
<td>BIO 7</td>
<td>Introduction to the Science of Biology</td>
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<tr>
<td>BIO 9</td>
<td>Our Living World: Evolution, Ecology and Behavior</td>
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<tr>
<td>BIO 10</td>
<td>Basic Biological Concepts</td>
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<td>BIO 15L</td>
<td>Laboratory Investigations in Biology</td>
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<td>BIO 103</td>
<td>Plants and Civilization</td>
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<td>BIO 112</td>
<td>Plant Taxonomy</td>
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<td>BIO 118</td>
<td>Natural Resource Conservation</td>
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<tr>
<td>BIO 128</td>
<td>Plant Anatomy and Physiology</td>
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<td>BIO 157</td>
<td>General Entomology</td>
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<td>BIO 160</td>
<td>General Ecology</td>
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<tr>
<td>BIO 186B</td>
<td>Ecological and Environmental Issues Seminar</td>
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<td>ECON 141</td>
<td>Introduction to Econometrics</td>
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<td>ECON 180</td>
<td>Urban Economics</td>
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<td>ECON 181</td>
<td>Economics of Racism</td>
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The following courses may only be taken by Peace Corps Prep students who are in the Business Honors Program:

BHON 102  Business Communication
BHON 104  Fundamentals of Organizational Behavior
BHON 105  Introduction to Management Information Systems
BHON 106  Business Data Analysis
BHON 107  Business Finance
BHON 108  Fundamentals in Marketing
BHON 109  Operations Management
BHON 120  Business Intelligence
BHON 130  Value Chain and Supply Chain Management
BHON 140  Enterprise Resource Planning and Infrastructure
BHON 150  Entrepreneurship and Innovation
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<td>BHON 160</td>
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<td>BHON 170</td>
<td>Strategy and Leadership</td>
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<td>Venture Growth Strategies</td>
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<td>FIN 138</td>
<td>Principles of Risk Management and Insurance</td>
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<td>FIN 139</td>
<td>Business Property and Liability Insurance</td>
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<td>FIN 140</td>
<td>Employee Benefits</td>
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<td>FIN 142</td>
<td>Real Estate Finance</td>
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<td>Real Estate Investment</td>
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<td>Capstone in Professional Financial Planning</td>
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<td>Strategic Management</td>
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<td>GM 170</td>
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<td>Machine Learning Applications in Business</td>
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<td>Culminating Experience</td>
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<td>Marketing Research and Information</td>
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<td>Buyer Behavior</td>
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<td>MKTG 124</td>
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<td>Data Structures and Algorithm Analysis</td>
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<td>Database Management Systems</td>
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<td>CSC 171</td>
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<td>Justice and Public Safety Administration</td>
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<td>CRJ 163</td>
<td>Leadership in Criminal Justice and Public Safety</td>
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<td>RPTA 105</td>
<td>Program and Event Planning in Recreation, Parks and Tourism</td>
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<td>RPTA 136</td>
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<td>RPTA 139</td>
<td>Conference and Meeting Planning</td>
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<td>RPTA 163</td>
<td>Grant Writing for Social, Community and Human Service Organizations</td>
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<td>RPTA 166</td>
<td>Administration in Recreation, Parks and Tourism</td>
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<td>RPTA 185</td>
<td>Advanced Seminar in Commercial Recreation Administration</td>
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<td>Research Methods in Linguistic Anthropology</td>
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<td>Museums, Culture, and Society</td>
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<td>Overview of Secondary Art Education</td>
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<td>Art for Exceptional Children</td>
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<td>Cells, Molecules and Genes</td>
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<td>Biology: A Human Perspective</td>
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<td>CHEM 24</td>
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<td>Metabolism and Regulation of Biological Systems</td>
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<td>Political Communication</td>
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<td>Introduction to Logic Design</td>
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<td>Programming Concepts and Methodology I</td>
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<td>Discrete Structures for Computer Science</td>
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<td>Introduction to Computer Architecture</td>
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<td>Introduction to Deaf Studies</td>
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<td>Creative Dance for Children</td>
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<td>ECON 152</td>
<td>Economics of Education</td>
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<td>Women and the Economy</td>
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<td>Mathematical Practices Across Cultures</td>
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<td>Educating Students with Disabilities in Inclusive Settings</td>
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<td>Multicultural Children’s Literature</td>
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<td>Sex Role Stereotyping in American Education</td>
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<td>Introduction to Bilingual Education: Policies, Principles, Programs, and Practices</td>
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<td>Linguistics and the English Language</td>
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<td>Technology in Second Language Teaching</td>
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<td>Traditional Grammar and Standard Usage</td>
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<td>ENGL 110P</td>
<td>Second Language Learning and Teaching</td>
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<td>Literature and Film for Adolescents</td>
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<td>Writing and the Young Writer</td>
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<td>ENGL 125E</td>
<td>Academic Reading and Writing for Second Language Students</td>
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<td>Twentieth Century Fiction by Women</td>
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<td>The Child In The Family</td>
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<td>Violent Weather/Changing Atmosphere</td>
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<td>Themes In World Geography</td>
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<td>Biogeography</td>
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<td>GEOG 118</td>
<td>Earth Transformed</td>
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<td>Major Problems in U.S. History</td>
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<td>History of the Physical Sciences</td>
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<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
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<td>General Physics: Light, Electricity and Magnetism, Modern Physics</td>
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<td>Physics In Our World</td>
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<td>General Physics: Mechanics</td>
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<td>PHYS 11B</td>
<td>General Physics: Heat, Light, Sound, Modern Physics</td>
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<td>Introduction to Modern Physics</td>
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<td>Conceptual Physics and Scientific Inquiry</td>
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<td>Classical Mechanics</td>
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<td>Electronics and Instrumentation</td>
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<td>PHYS 124</td>
<td>Thermodynamics and Statistical Mechanics</td>
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<td>Electricity And Magnetism</td>
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<td>Psychology of Exceptional Children</td>
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<td>RPTA 148</td>
<td>Experiential Education in Outdoor Recreation Settings</td>
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<td>Environmental Interpretation</td>
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<td>STAT 10A</td>
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<td>SOC 170</td>
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<td>Bullying as a Social Experience</td>
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<td>SSCI 193</td>
<td>Integrating History and Social Science</td>
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<td>Multicultural Puppetry</td>
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<td>THEA 118</td>
<td>Children's Theatre</td>
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<td>ENVS 10H</td>
<td>Honors Environmental Science</td>
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<td>GEOG 2H</td>
<td>Cultural Geography - Honors</td>
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<td>HIST 51H</td>
<td>World History from 1500 to the Present</td>
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<td>HONR 102</td>
<td>The Public Good Through the Visual and Performing Arts</td>
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<td>ART 192C</td>
<td>Senior Seminar in Art Education</td>
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<td>CSAD 112</td>
<td>Language Science and Development</td>
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<td>CSAD 142</td>
<td>Topics in Autism Spectrum Disorders</td>
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<td>CSC 60</td>
<td>Introduction to Systems Programming in UNIX</td>
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<td>CSC 130</td>
<td>Data Structures and Algorithm Analysis</td>
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<td>CSC 131</td>
<td>Computer Software Engineering</td>
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<td>CSC 134</td>
<td>Database Management Systems</td>
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<td>CSC 135</td>
<td>Computing Theory and Programming Languages</td>
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<td>CSC 137</td>
<td>Computer Organization</td>
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<td>CSC 138</td>
<td>Computer Networking Fundamentals</td>
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<td>ENGR 1A</td>
<td>Fundamentals of Engineering</td>
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<td>ENGR 6</td>
<td>Engineering Graphics and CADD (Computer Aided Drafting and Design)</td>
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<td>ENGR 6W</td>
<td>Engineering Graphics and CADD Workshop</td>
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<td>ENGR 45</td>
<td>Engineering Materials</td>
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<td>ENGR 50</td>
<td>Computational Methods and Applications</td>
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<td>ENGR 70</td>
<td>Engineering Mechanics</td>
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<td>ME 105</td>
<td>Introduction to Technical Problem Solving</td>
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<td>ME 108</td>
<td>Professional Topics for Mechanical Engineers</td>
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<td>ME 116</td>
<td>Machinery Design I</td>
</tr>
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<td>ME 128</td>
<td>Thermal-Fluid Systems</td>
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<td>ME 180</td>
<td>Mechanical Properties of Materials</td>
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<td>ENVS 110</td>
<td>Contemporary Environmental Issues</td>
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</tbody>
</table>
The following courses may only be taken by Peace Corps Prep students who are Health Science Majors

- PUBH 136 School Health Education

The following courses may only be taken by Peace Corps Prep students who are History Majors

- HIST 198 Summative Assessment for Teachers

The following courses may only be taken by Peace Corps Prep students who are Music Majors

- MUSC 162 Foundations of Music Education
- MUSC 164 Music in General Education

The following courses may only be taken by Peace Corps Prep students who are Physical Education Majors

- BIO 30 Anatomy & Physiology - Brief Course

Environment Work Sector

The following courses may be taken by any Peace Corps Prep student

- ANTH 108 Economic Anthropology
- ANTH 109 Ecological and Evolutionary Approaches to Anthropology
- ANTH 115 Origins of Agriculture
- ANTH 124 Environmental Archaeology
- ANTH 174 Anthropology of Food
- ANTH 175 Anthropology of Globalization
- ANTH 181 Anthropology of Human Rights
- ANTH 196T Zooarchaeology
- BIO 1 Biodiversity, Evolution and Ecology
- BIO 2 Cells, Molecules and Genes
- BIO 7 Introduction to the Science of Biology
- BIO 9 Our Living World: Evolution, Ecology and Behavior
- BIO 10 Basic Biological Concepts
- BIO 15L Laboratory Investigations in Biology
- BIO 103 Plants and Civilization
- BIO 118 Natural Resource Conservation
- BIO 160 General Ecology
- BIO 179 Conservation Biology & Wildlife Management
- BIO 186B Ecological and Environmental Issues Seminar
- COMS 145 Organizational Communication
- ECON 120 Economics and Environmental Degradation
- ECON 123 Resource Economics
- ENV 10 Introduction to Environmental Science
- ENV 11 Environmental Issues and Critical Thinking
- ENV 122 Environmental Impact Analysis: CEQA and NEPA
- ENV 128 Environment and the Law
- ENV 138 Introduction to Environmental Sociology
- ENV 165 American Environmental History
- ENV 171 Environmental Politics and Policy
- ENV 187 Environmental Studies Seminar
- GEOG 1 Physical Geography: The Distribution of Natural Phenomena
- GEOG 2 Cultural Geography
- GEOG 3 Introduction to Maps and Geographic Technologies
- GEOG 5 Violent Weather/Changing Atmosphere

GEOG 11 Laboratory in Physical Geography
GEOG 100 Themes In World Geography
GEOG 105 Computer Cartography
GEOG 107 Remote Sensing
GEOG 109 Geographic Information Systems
GEOG 110 Advanced Geographic Information Systems
GEOG 111 Elements Of Meteorology
GEOG 113 Climate
GEOG 115 Biogeography
GEOG 116 Global Climate Change
GEOG 117 Landforms
GEOG 118 Earth Transformed
GEOG 121 United States and Canada
GEOG 125 Geography Of East Asia
GEOG 127 Geography Of Africa
GEOG 128 Geography Of Europe
GEOG 131 California
GEOG 141 Geography of Economic Activity
GEOG 143 Environmental Hazards and Society
GEOG 147 Urban Geography
GEOG 148 Urban and Regional Planning
GEOG 161 California’s Water Resources
GEOG 163 Applied GIS
GEOG 181 Quantitative Methods in Geography
GEOG 190 Senior Research Seminar in Geography
GEOG 192A Geography Field Experience A
GEOG 192B Geography Field Experience B
GEOG 192C Geography Field Experience C
GEOG 193B Field Geography: Suburban-Rural
GEOG 193C Field Geography: Physical
HIST 165 American Environmental History
HRS 154 Food, Farming, and the Sacred
HRS 155 Spirit and Nature
LBST 110 California Studies
PHIL 192E Topics in Epistemology
POLS 128 Environment and the Law
POLS 171 Environmental Politics and Policy
PSYC 116 Animal Behavior
RPTA 34 The Outdoor Recreation Experience
RPTA 148 Experiential Education in Outdoor Recreation Settings
RPTA 149 Developing and Programming Adventure Experiences
RPTA 150 Ecology Of Resource Areas
RPTA 151 Visitor Management in Recreation Areas
RPTA 152 Law Enforcement for Forest and Park Rangers
RPTA 153 Environmental Interpretation
SOC 138 Environmental Sociology
SOC 139 Animals in Society

The following courses may only be taken by Peace Corps Prep students who are in the Honors Program

- ENV 10H Honors Environmental Science
- GEOG 2H Cultural Geography - Honors
Peace Corps Prep Certificate

HONR 101: Science and the Public Good

The following courses may only be taken by Peace Corps Prep students who are Engineering Majors:

CE 100: Engineering Geology
CE 130: Water Resources Engineering
CE 131: Hydrology
CE 133: Design of Urban Water and Sewer Systems
CE 134: Open Channel Hydraulics
CE 153: Design of Water Quality Control Processes
CE 170: Soil Mechanics
EEE 135: Renewable Electrical Energy Sources and Grid Integration
EEE 136: Smart Electric Power Grid
ENGR 105: Sustainable Design and Construction
ME 121: Renewable Energy Storage Systems
ME 122: Geothermal and Bioenergy Systems
ME 123: Wind, Hydro and Ocean Energy
ME 154: Alternative Energy Systems
ME 157: Solar Energy Engineering

The following courses may only be taken by Peace Corps Prep students who are Environmental Studies Majors:

ENVS 110: Contemporary Environmental Issues
ENVS 111: Environmental Ethics
ENVS 112: International Environmental Problems
ENVS 120: Quantitative Methods for Environmental Science
ENVS 121: Field Methods in Environmental Science
ENVS 130: Environmental Toxicology
ENVS 144: Sustainability Science & Policy
ENVS 147: Urban Agriculture and Aquaponics
ENVS 149: Agroecology
ENVS 151: Restoration Ecology
ENVS 158: Wetlands Ecology
ENVS 163: Ethnoecology

The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors:

RPTA 42: Recreation and Parks: Natural, Cultural, and Heritage Resources

Health Work Sector

The following courses may be taken by any Peace Corps Prep student:

ANTH 150: Human Osteology
ANTH 153: Evolutionary Medicine
ANTH 155: Fundamentals of Biological Anthropology
ANTH 156: Evolution of Human Behavior
ANTH 163: Urban Anthropology
ANTH 174: Anthropology of Food
ANTH 181: Anthropology of Human Rights
BIO 10: Basic Biological Concepts
BIO 15L: Laboratory Investigations in Biology
BIO 20: Biology: A Human Perspective
BIO 22: Introductory Human Anatomy

If you choose to take courses in the following tracks, you must consult with an advisor to ensure that they count toward the Peace Corps Prep certificate.

BIO 25: Human Anatomy and Physiology I
BIO 26: Human Anatomy and Physiology II
BIO 39: Microbiology for Allied Health Students
BIO 104: Physiology of Human Reproduction
BIO 131: Systemic Physiology
BIO 131A: Advanced Problems in Physiology
BIO 132: Neuropathology
BIO 133: Cardiovascular, Respiratory and Renal Physiology
BIO 140: Medical Microbiology and Emerging Infectious Diseases
BIO 152: Human Parasitology
BIO 185: Topics in Biology
BIO 186A: Cell and Molecular Biology Seminar
BIO 186C: Introduction to Health Careers Seminar
CHAD 30: Human Development
CHAD 143: Mind and Brain in Developmental Context
CHAD 157: Infant and Toddler: Development and Care
CHEM 6B: Introduction to Organic and Biological Chemistry
CHEM 160A: Structure and Function of Biological Molecules
CHEM 160B: Metabolism and Regulation of Biological Systems
CHEM 161: General Biochemistry
CHEM 162: General Biochemistry Laboratory
ECON 153: Health Economics
FACS 10
FACS 112
FACS 113
FSHD 52: The Child In The Family
FSHD 152: Adolescent Development
FSHD 159: Adulthood and Aging in Human Development
GEOG 143: Environmental Hazards and Society
GERO 100: Aging Issues in Contemporary America
GERO 101: Older Adult Services and Strategies
GERO 103: Applied Care Management in Gerontological Practice
GERO 121: Strategies for Optimal Aging
GERO 122: Interprofessional Approaches to Health Care in Older Adults
HIST 18: Health, Medicine, and Science in America, 1600-Present
HIST 175A: Sex, Population, and Birth Control in America
NURS 14: Pharmacology
NURS 160: Human Sexuality
NURS 168: The Brain and Gender-Related Differences
PHIL 104: Bioethics
PHIL 192B: Topics in Bioethics
POLS 131: International Organization
POLS 139B: International Politics and International Development
POLS 139S: Topics in Human Security
PSYC 2: Introductory Psychology
PSYC 111: Foundations of Behavioral Neuroscience
PSYC 117: Drugs and Behavior
PSYC 134: Psychology of Human Sexuality
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PSYC 137</td>
<td>Stress Management</td>
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<tr>
<td>PSYC 148</td>
<td>Child Psychology</td>
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<tr>
<td>PSYC 149</td>
<td>Psychology of Adolescence</td>
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<tr>
<td>PSYC 150</td>
<td>Psychological Aspects of Aging</td>
</tr>
<tr>
<td>PSYC 151</td>
<td>Psychological Aspects of Death and Dying</td>
</tr>
<tr>
<td>PSYC 152</td>
<td>Psychological Aspects of Health, Wellness, and Illness</td>
</tr>
<tr>
<td>PSYC 157</td>
<td>Psychology of Women</td>
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<td>PSYC 168</td>
<td>Abnormal Psychology</td>
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<td>PSYC 171</td>
<td>Applied Behavior Analysis</td>
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<td>SOC 5</td>
<td>Exploring Issues Facing Contemporary Families</td>
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<td>SOC 144</td>
<td>Sociology of Health and Illness</td>
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<tr>
<td>STAT 1</td>
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<td>STAT 10B</td>
<td>Introductory Statistics with Developmental Mathematics</td>
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<td>SWRK 102</td>
<td>Crosscultural Theory and Practice: Issues of Race, Gender and Class</td>
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<td>SWRK 118</td>
<td>Chemical Dependency and Social Work Practice</td>
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<tr>
<td>SWRK 129</td>
<td>Human Sexuality in Social Work Perspectives</td>
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<td>SWRK 151</td>
<td>Health Services and Systems</td>
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<td>BIO 134</td>
<td>Medical Mycology</td>
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<td>BIO 135</td>
<td>Endocrinology</td>
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<td>BIO 139</td>
<td>General Microbiology</td>
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<tr>
<td>BIO 143</td>
<td>General Virology</td>
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<td>BIO 144</td>
<td>Pathogenic Bacteriology</td>
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<tr>
<td>BIO 149A</td>
<td>Immunology</td>
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<td>BIO 149C</td>
<td>Advanced Problems in Immunology</td>
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<td>BIO 180</td>
<td>Advanced Molecular Biology</td>
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<tr>
<td>BIO 183</td>
<td>Cancer Biology</td>
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<tr>
<td>BIO 183A</td>
<td>Advanced Problems in Cancer Biology</td>
</tr>
<tr>
<td>BIO 184</td>
<td>General Genetics</td>
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<tr>
<td>BIO 187</td>
<td>Advanced Cell Biology</td>
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<tr>
<td>CSAD 111</td>
<td>Anatomy and Physiology of the Speech Mechanism</td>
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<tr>
<td>CSAD 125</td>
<td>Developmental and Acquired Neurogenic Language Disorders Across the Lifespan</td>
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<tr>
<td>CSAD 127</td>
<td>Introduction to Medical Speech Pathology</td>
</tr>
<tr>
<td>CSAD 130</td>
<td>Introduction to Audiology</td>
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<tr>
<td>CSAD 142</td>
<td>Topics in Autism Spectrum Disorders</td>
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<tr>
<td>CE 130</td>
<td>Water Resources Engineering</td>
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<tr>
<td>CE 131</td>
<td>Hydrology</td>
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<tr>
<td>CE 134</td>
<td>Open Channel Hydraulics</td>
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<tr>
<td>CE 170</td>
<td>Soil Mechanics</td>
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<tr>
<td>CE 133</td>
<td>Design of Urban Water and Sewer Systems</td>
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<tr>
<td>CE 153</td>
<td>Design of Water Quality Control Processes</td>
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The following courses may only be taken by Peace Corps Prep students who are Biology Majors

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<thead>
<tr>
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<tbody>
<tr>
<td>BIO 134</td>
<td>Medical Mycology</td>
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<td>BIO 135</td>
<td>Endocrinology</td>
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<tr>
<td>BIO 139</td>
<td>General Microbiology</td>
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<td>BIO 143</td>
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<td>BIO 149A</td>
<td>Immunology</td>
</tr>
<tr>
<td>BIO 149C</td>
<td>Advanced Problems in Immunology</td>
</tr>
<tr>
<td>BIO 180</td>
<td>Advanced Molecular Biology</td>
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<tr>
<td>BIO 183</td>
<td>Cancer Biology</td>
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<tr>
<td>BIO 183A</td>
<td>Advanced Problems in Cancer Biology</td>
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<tr>
<td>BIO 184</td>
<td>General Genetics</td>
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The following courses may only be taken by Peace Corps Prep students who are Communication Sciences and Disorders Majors

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<tr>
<td>CSAD 111</td>
<td>Anatomy and Physiology of the Speech Mechanism</td>
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<tr>
<td>CSAD 125</td>
<td>Developmental and Acquired Neurogenic Language Disorders Across the Lifespan</td>
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<tr>
<td>CSAD 127</td>
<td>Introduction to Medical Speech Pathology</td>
</tr>
<tr>
<td>CSAD 130</td>
<td>Introduction to Audiology</td>
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<tr>
<td>CSAD 142</td>
<td>Topics in Autism Spectrum Disorders</td>
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The following courses may only be taken by Peace Corps Prep students who are Engineering Majors

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<td>CE 130</td>
<td>Water Resources Engineering</td>
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<tr>
<td>CE 131</td>
<td>Hydrology</td>
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<tr>
<td>CE 134</td>
<td>Open Channel Hydraulics</td>
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<tr>
<td>CE 170</td>
<td>Soil Mechanics</td>
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<td>CE 133</td>
<td>Design of Urban Water and Sewer Systems</td>
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<tr>
<td>CE 153</td>
<td>Design of Water Quality Control Processes</td>
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The following courses may only be taken by Peace Corps Prep students who are Environmental Studies Majors

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<td>ENVS 130</td>
<td>Environmental Toxicology</td>
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The following courses may only be taken by Peace Corps Prep students who are Family and Consumer Sciences Majors

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<td>FACS 9</td>
<td>Exercise for Healthy Living</td>
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The following courses may only be taken by Peace Corps Prep students who are Health Science Majors

<table>
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<th>Course Title</th>
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<td>PUBH 50</td>
<td>Healthy Lifestyles</td>
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The following courses may only be taken by Peace Corps Prep students who are Kinesiology Majors

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<td>NURS 53</td>
<td>Paramedic Skills Part 1</td>
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<tr>
<td>NURS 54</td>
<td>Paramedic Skills Part 2</td>
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<tr>
<td>NURS 111</td>
<td>Introduction to Professional Nursing</td>
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<tr>
<td>NURS 112</td>
<td>Nursing Care Of Adults</td>
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<td>NURS 113</td>
<td>Professional Nursing Communication, Assessment and Skills</td>
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<td>NURS 119</td>
<td>Mental Health Nursing for the LVN 30-Unit Option</td>
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<td>NURS 120</td>
<td>Nursing Application of Research and Critical Analysis</td>
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<td>NURS 123</td>
<td>Nursing Families in Complex Illness</td>
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<tr>
<td>NURS 129</td>
<td>Mental Health Nursing</td>
</tr>
<tr>
<td>NURS 133</td>
<td>Leadership and Management for the LVN to RN</td>
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<tr>
<td>NURS 136</td>
<td>Nursing Laboratory for the Childbearing Family</td>
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<tr>
<td>NURS 137</td>
<td>Nursing the Childbearing Family</td>
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<tr>
<td>NURS 138</td>
<td>Nursing the Childrearing Family</td>
</tr>
<tr>
<td>NURS 139</td>
<td>Nursing Laboratory for the Childrearing Family</td>
</tr>
<tr>
<td>NURS 143</td>
<td>Leadership and Management in Nursing Practice</td>
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<tr>
<td>NURS 144</td>
<td>Community Health Nursing</td>
</tr>
<tr>
<td>NURS 145</td>
<td>Clinical Leadership and Professional Role Development</td>
</tr>
<tr>
<td>NURS 171</td>
<td>Transitional Concepts: The Baccalaureate Nurse</td>
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<tr>
<td>NURS 174</td>
<td>Community Health Nursing: Concepts and Practice</td>
</tr>
<tr>
<td>NURS 178</td>
<td>Culminating Project</td>
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The following courses may only be taken by Peace Corps Prep students who are Nursing Majors

<table>
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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>BIO 30</td>
<td>Anatomy &amp; Physiology - Brief Course</td>
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The following courses may only be taken by Peace Corps Prep students who are Psychology Majors

<table>
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<th>Course Title</th>
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<td>PSYC 100</td>
<td>Cross-Cultural Psychology</td>
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<tr>
<td>PSYC 115</td>
<td>Introduction to Neuroscience</td>
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</table>

The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPTA 106</td>
<td>Introduction to Inclusive Recreation and Recreation Therapy</td>
</tr>
<tr>
<td>RPTA 115</td>
<td>Recreation Therapy Assessment and Documentation</td>
</tr>
<tr>
<td>RPTA 117</td>
<td>Recreation Therapy and Contemporary Aspects of Disability</td>
</tr>
<tr>
<td>RPTA 118</td>
<td>Recreation Therapy Facilitation Techniques</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<td>-------------</td>
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</tr>
<tr>
<td>ANTH 2</td>
<td>Introduction to Cultural Anthropology</td>
</tr>
<tr>
<td>ANTH 4</td>
<td>Language, Culture, and Critical Thinking</td>
</tr>
<tr>
<td>ANTH 101</td>
<td>Cultural Diversity</td>
</tr>
<tr>
<td>ANTH 102</td>
<td>The Nature of Culture</td>
</tr>
<tr>
<td>ANTH 108</td>
<td>Economic Anthropology</td>
</tr>
<tr>
<td>ANTH 142</td>
<td>Political Anthropology</td>
</tr>
<tr>
<td>ANTH 156</td>
<td>Evolution of Human Behavior</td>
</tr>
<tr>
<td>ANTH 164</td>
<td>Culture Change</td>
</tr>
<tr>
<td>ANTH 175</td>
<td>Anthropology of Globalization</td>
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<tr>
<td>ANTH 181</td>
<td>Anthropology of Human Rights</td>
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<tr>
<td>ANTH 183</td>
<td>Women Cross-Culturally</td>
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<td>Civic Engagement, Service Learning: Pursuing the Public Good</td>
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</table>
The following courses may only be taken by Peace Corps Prep students who are Criminal Justice Majors

- CRJ 105 Delinquency, Prevention and Control
- CRJ 108 Domestic Crime and Violence
- CRJ 170 Human Trafficking and Slavery

The following courses may only be taken by Peace Corps Prep students who are Environmental Studies Majors

- ENVS 110 Contemporary Environmental Issues
- ENVS 112 International Environmental Problems

The following courses may only be taken by Peace Corps Prep students who are Health Science Majors

- PUBH 50 Healthy Lifestyles
- PUBH 134 Understanding Human Sexuality

The following courses may only be taken by Peace Corps Prep students who are Music Majors

- MUSC 60 Introduction to String Project Pedagogy
- MUSC 160 Advanced String Project Pedagogy
- MUSC 162 Foundations of Music Education

The following courses may only be taken by Peace Corps Prep students who are Nursing Majors

- NURS 129 Mental Health Nursing
- NURS 144 Community Health Nursing
- NURS 174 Community Health Nursing: Concepts and Practice
- NURS 174C Community Health Nursing: Clinical Elective

The following courses may only be taken by Peace Corps Prep students who are Physical Education Majors

- BIO 30 Anatomy & Physiology - Brief Course

The following courses may only be taken by Peace Corps Prep students who are Psychology Majors

- PSYC 100 Cross-Cultural Psychology
- PSYC 104 Learning Theories
- PSYC 142 Community Psychology

The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors

- RPTA 106 Introduction to Inclusive Recreation and Recreation Therapy
- RPTA 116 Recreation Therapy Principles and Practices and the Recreation Therapy Process
- RPTA 117 Recreation Therapy and Contemporary Aspects of Disability
- RPTA 118 Recreation Therapy Facilitation Techniques
- RPTA 169 Traumatology: An Introduction to Posttraumatic Growth

The following courses may only be taken by Peace Corps Prep students who are Social Work Majors

- SWRK 125A Human Behavior and the Social Environment: Theory
- SWRK 125B Human Behavior and the Social Environment: The Life Course
- SWRK 140A Social Work Practice
- SWRK 140B Social Work Practice
- SWRK 140C Social Work Practice

**Work Sector Field Experience (1-15 Units)**

Complete at least 50 hours of field experience in the same work sector in which you took coursework. There are three options for satisfying the field experience requirement:

a) Service learning course(s) where the service is related to your chosen work sector (must be pre-approved by the program advisor)
b) (1-6) ID 195 Field Experience (must be related to your chosen work sector, pre-approved by the program advisor, and supervised by the faculty)
c) An approved internship course in your chosen work sector listed below

Options may be combined if necessary to achieve the required number of hours of field experience. The Student Handbook lists possible field experience sites.

**Approved Internship Courses**

**Agriculture Work Sector**

The following courses may only be taken by Peace Corps Prep students who are Geography Majors

- GEOG 195A Geography Internship A
- GEOG 195B Geography Internship B
- GEOG 195C Geography Internship C

The following courses may only be taken by Peace Corps Prep students who are in the Honors Program

- HONR 195 Community Fieldwork and Internship

**Community Economic Development Work Sector**

The following courses may be taken by any Peace Corps Prep student

- ACCY 194 Cooperative Education Experience in Accountancy
- AIS 194 Cooperative Education Experience in Accounting Information Systems Problems
- GM 194 Cooperative Education Experience in Management
- HROB 194 Cooperative Education Experiences in Human Resources Management
- JOUR 197A
- JOUR 197B
- MIS 194 Cooperative Education Experience in Management Information Systems
- PSYC 195C Fieldwork in Industrial and Organizational Psychology

The following courses may only be taken by Peace Corps Prep students who are Business Majors

- ACCY 195 Internship in Accountancy
- AIS 195 Internship in Accounting Information Systems
- FIN 195 Internship In Finance
- GM 195 Internship in Strategic Management
- HROB 195 Internship in Human Resources Management
- IBUS 195 Internship in International Business
- MIS 195 Internship in Management Information Systems
- MKTG 195 Internship in Marketing

The following courses may only be taken by Peace Corps Prep students who are in the Honors Program

- HONR 195 Community Fieldwork and Internship

**Education Work Sector**

The following courses may be taken by any Peace Corps Prep student

- ACCY 195 Internship in Accountancy
- AIS 195 Internship in Accounting Information Systems
- FIN 195 Internship In Finance
- GM 195 Internship in Strategic Management
- HROB 195 Internship in Human Resources Management
- IBUS 195 Internship in International Business
- MIS 195 Internship in Management Information Systems
- MKTG 195 Internship in Marketing

The following courses may only be taken by Peace Corps Prep students who are in the Honors Program

- HONR 195 Community Fieldwork and Internship
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<td>Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab</td>
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<td>Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum</td>
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<td>EDUC 125A &amp; EDUC 125B</td>
<td>Tutoring Children in Reading Tutoring Children in Reading Practicum</td>
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<td>Field Experience in After School STEM Programs Field Experience in After School STEM Programs: Practicum</td>
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The following courses may only be taken by Peace Corps Prep students who are Physics Majors

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The following courses may only be taken by Peace Corps Prep students who are Psychology Majors

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<td>PSYC 143</td>
<td>Practicum in Community Psychology</td>
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The following courses may only be taken by any Peace Corps Prep student

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>RPTA 191</td>
<td>Service Learning Option for Recreation, Parks and Tourism Administration Courses</td>
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The following courses may only be taken by Peace Corps Prep students who are Environmental Studies Majors

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<tr>
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<tbody>
<tr>
<td>ENV 195</td>
<td>Environmental Studies Internship</td>
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<td>ENV 195M</td>
<td>Mini Internship</td>
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The following courses may only be taken by Peace Corps Prep students who are Geography Majors

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<tbody>
<tr>
<td>GEOG 195A</td>
<td>Geography Internship A</td>
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<td>Geography Internship B</td>
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<td>Geography Internship C</td>
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The following courses may only be taken by Peace Corps Prep students who are in the Honors Program

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<tbody>
<tr>
<td>HONR 195</td>
<td>Community Fieldwork and Internship</td>
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The following courses may only be taken by Peace Corps Prep students who are Nursing Majors

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<tr>
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<td>Work Study in Nursing</td>
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<tr>
<td>NURS 195</td>
<td>Field Study</td>
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The following courses may only be taken by Peace Corps Prep students who are Psychology Majors

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<tbody>
<tr>
<td>PSYC 143</td>
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The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors

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<tr>
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<tr>
<td>RPTA 195D</td>
<td>Recreation Therapy Internship</td>
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Youth in Development Work Sector

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<td>CHAD 144</td>
<td>Community Service Learning in Developmental and Educational Settings</td>
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<tr>
<td>EDUC 100A &amp; EDUC 100B</td>
<td>Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab</td>
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<td>EDUC 127A &amp; EDUC 127B</td>
<td>Field Experience in After School STEM Programs Field Experience in After School STEM Programs: Practicum</td>
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<td>ENGL 195A</td>
<td>Writing Center Theory and Practice: Internships</td>
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<td>ID 195A</td>
<td>Introductory Field Experience in Peer Health Education</td>
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<td>Intermediate Field Experience in Peer Health Education</td>
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<td>Advanced Field Experience in Peer Health Education</td>
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<td>POLS 198A</td>
<td>Odyssey Peer Advisers</td>
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<tr>
<td>SOC 195</td>
<td>Internship and Fieldwork</td>
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<td>WGS 195A</td>
<td>Fieldwork in Women’s Studies</td>
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The following courses may only be taken by Peace Corps Prep students who are in the Honors Program

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<td>RPTA 198</td>
<td>Co-Curricular Activities</td>
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<td>SOC 193B</td>
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<td>SWRK 195B</td>
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**Intercultural Competence (24 Units)**

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<td>Introduction to Cultural Anthropology</td>
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<td>ANTH 4</td>
<td>Language, Culture, and Critical Thinking</td>
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<td>Cultural Diversity</td>
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<td>ANTH 102</td>
<td>The Nature of Culture</td>
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<td>ANTH 108</td>
<td>Economic Anthropology</td>
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<td>ANTH 131</td>
<td>Europe in the Ethnographic Imagination</td>
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<td>ANTH 141</td>
<td>Culture Theory</td>
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<td>ANTH 142</td>
<td>Political Anthropology</td>
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<td>ANTH 143</td>
<td>Culture and Society in Mexico</td>
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<td>ANTH 145</td>
<td>Peoples and Cultures of Latin America</td>
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<td>ANTH 146</td>
<td>Ethnographic Analysis</td>
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<td>ANTH 147</td>
<td>Peoples of Southeast Asia</td>
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<td>ANTH 148</td>
<td>Anthropology of Chinese Societies</td>
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<td>ANTH 149</td>
<td>Cultures of South Asia</td>
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<td>ANTH 161</td>
<td>African Cultures and Societies</td>
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<td>ANTH 162</td>
<td>Language and Culture</td>
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<td>Culture Change</td>
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<td>The Religious Landscape of the Sacramento Valley</td>
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<td>ANTH 173</td>
<td>Anthropology of Contemporary Asia</td>
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<td>ANTH 175</td>
<td>Anthropology of Globalization</td>
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<td>ANTH 181</td>
<td>Anthropology of Human Rights</td>
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<td>ANTH 183</td>
<td>Women Cross-Culturally</td>
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<td>ANTH 186</td>
<td>Culture and Poverty</td>
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<td>Global Modern and Contemporary Art</td>
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<td>ART 103</td>
<td>Art of the Ancient Mediterranean</td>
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<td>ART 109</td>
<td>Modern Art</td>
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<td>ART 111</td>
<td>Latin American and Latino Art History</td>
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<td>ART 112</td>
<td>Contemporary Art</td>
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<td>ART 117A</td>
<td>Art of India and Southeast Asia</td>
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<td>ART 117B</td>
<td>Art of China and Japan</td>
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<td>ART 117C</td>
<td>Art of Korea</td>
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<td>Barrio Art for Ethnic Groups</td>
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<td>The Way of Chanoyu: An Interdisciplinary Approach to the Japanese Tea Gathering</td>
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<td>Anthropology of Contemporary Asia</td>
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<td>ASIA 135</td>
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<td>Korean Development and Behavior</td>
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<td>ASIA 140</td>
<td>Modern East Asian Cinema</td>
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<td>ASIA 151</td>
<td>Genocide in Southeast Asia</td>
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<td>CHAD 141</td>
<td>History of Childhood: International and Interdisciplinary Perspectives</td>
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<td>Controversial Issues in Childhood Development, Education, and Social Policy</td>
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<td>Chinese Civilization</td>
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<td>Introduction to Classical and Literary Chinese</td>
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<td>Survey of Chinese Literature</td>
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<td>Communication in Small Groups</td>
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<td>COMS 116</td>
<td>Intercultural Communication</td>
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<td>Conflict Resolution Through Communication</td>
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<td>COMS 143</td>
<td>Theories of Interpersonal Communication</td>
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<td>Survey of World Cinema</td>
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<td>COMS 173</td>
<td>Communication, Language and Culture</td>
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<td>COMS 174</td>
<td>International Communication</td>
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<td>COMS 176</td>
<td>Communication and Terrorism</td>
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<td>COMS 188</td>
<td>Senior Seminar in Intercultural Communication</td>
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<td>DEAF 60</td>
<td>Introduction to Deaf Studies</td>
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<td>Deaf Culture and Community</td>
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<td>Dance Cultures Of America</td>
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<td>African-Caribbean Dance</td>
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<td>Economics of Racism</td>
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<td>Mathematical Practices Across Cultures</td>
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<td>Educating Students with Disabilities in Inclusive Settings</td>
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<td>Multicultural Children’s Literature</td>
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<td>Power, Privilege and Self Identity in Counseling</td>
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<td>Urban Education</td>
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<td>Sex Role Stereotyping in American Education</td>
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<td>EDUC 173</td>
<td>Hmong History and Culture</td>
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<td>Caribbean Literature</td>
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<td>American Identities: In the Intersection of Race, Gender, and Ethnicity</td>
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<td>Jewish American Literature</td>
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<td>ENGL 180L</td>
<td>Chicano Literature</td>
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<td>Twentieth Century Fiction by Women</td>
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<td>The Filipino American Experience</td>
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<td>Sikh Americans and Globalization</td>
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<td>American Indians, Film and Popular Culture</td>
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<td>Native Voice, Memory, and Biography 🧸</td>
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<td>Native American Oral Tradition and Storytelling</td>
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<td>Native American Women</td>
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<td>Indigenous People</td>
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<td>American Indigenous Families: Issues and Perspectives</td>
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<td>Asian American Families: Issues and Perspectives</td>
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<td>African Religions and Philosophies</td>
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<td>German Civilization: 17th Century to Present</td>
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<td>Interprofessional Approaches to Health Care in Older Adults</td>
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<td>HIST 17B</td>
<td>United States History, 1877-Present 🧸</td>
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<td>World History from 1500 to the Present.</td>
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<td>History of Women in Western Civilization, Renaissance-Present 🧸</td>
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<td>Revolutionary and Modern Mexico</td>
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<td>Colonial Latin America</td>
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<td>Modern and Contemporary Latin America</td>
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<td>Modern East Asian Cinema 🧸</td>
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<td>History of Africa Since 1800</td>
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<td>History of Women in Africa</td>
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<td>HIST 143A</td>
<td>Middle Eastern History to 1800</td>
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<td>The Modern Middle East</td>
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<td>South Asian History &amp; Civilization</td>
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<td>HIST 148A</td>
<td>China: Antiquity to 1600 AD</td>
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<td>China, 1600 to Present</td>
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<td>The Making of Modern Southeast Asia</td>
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<td>American Indian History since 1840</td>
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<td>The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present 🧸</td>
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<td>HIST 177</td>
<td>The African-American Experience, 1603-Present 🧸</td>
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<td>Mexican-American History 🧸</td>
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<td>Management Skills Seminar</td>
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<td>Arts and Ideas of Asia: Medieval to Modern</td>
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<td>Introduction to Islamic Cultures</td>
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<td>Islam in America</td>
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<td>History of Buddhism</td>
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<td>HRS 152</td>
<td>Great Mystics of the World</td>
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<tr>
<td>HRS 170</td>
<td>The Religious Landscape of the Sacramento Valley 🧸</td>
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<tr>
<td>HRS 171</td>
<td>Introduction to the East Asian World</td>
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<tr>
<td>HRS 172</td>
<td>The Classical Culture of China</td>
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<td>HRS 173</td>
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<td>HRS 174</td>
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<td>HRS 175</td>
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<td>HRS 176</td>
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<td>HRS 178</td>
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<td>HRS 179A</td>
<td>The Hindu Year: Fall</td>
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<td>HRS 179B</td>
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<td>HRS 183</td>
<td>World Religions and Cultures in Cinema</td>
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<td>ITAL 104A</td>
<td>Introduction to Italian Cinema I</td>
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<td>ITAL 110</td>
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<tr>
<td>JAPN 116A</td>
<td>Third Year Japanese 1 - Language and Culture of Japan</td>
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<td>JAPN 116B</td>
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<td>JAPN 120</td>
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<td>LBST 110</td>
<td>California Studies</td>
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<td>MUSC 9</td>
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<td>MUSC 119C</td>
<td>World Music: Latin America</td>
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<td>PHIL 145A</td>
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<td>POLS 139S</td>
<td>Topics in Human Security</td>
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<td>POLS 141</td>
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<td>POLS 142</td>
<td>Government and Politics in Africa</td>
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<td>POLS 143</td>
<td>Causes of War, Causes of Peace</td>
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<td>POLS 145</td>
<td>Asian Politics</td>
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<td>POLS 147</td>
<td>Latin American Government and Politics</td>
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<td>POLS 148</td>
<td>Governments and Politics in the Middle East</td>
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<td>PSYC 135</td>
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<td>PSYC 160</td>
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<td>RPTA 33</td>
<td>Race, Class Gender and Leisure</td>
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<td>RPTA 128</td>
<td>Recreation Services for Diverse, Underserved and Underrepresented Populations</td>
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<td>SOC 118</td>
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<td>SOC 120</td>
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<td>SOC 126</td>
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<td>SOC 127</td>
<td>Men, Masculinity and Society</td>
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<td>SOC 128</td>
<td>Sociology Of Sexuality</td>
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<td>SOC 133</td>
<td>Sport in a Global Perspective</td>
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<td>SOC 135</td>
<td>Sociology of Popular Culture</td>
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<td>SOC 160</td>
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<td>Middle Eastern Societies and Culture</td>
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<td>SOC 163</td>
<td>Conflict, Oil and Development in the Middle East</td>
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<td>Sociology of Globalization</td>
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<td>SPAN 100</td>
<td>Introduction to the Study of Hispanic Literature</td>
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<tr>
<td>SPAN 110</td>
<td>Survey of Spanish Literature to 1800</td>
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<td>SPAN 111</td>
<td>Survey of Spanish Literature from 1800 to the Present</td>
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<td>SPAN 113</td>
<td>Latin American Literature, Beginnings to Modernism</td>
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<td>SPAN 114</td>
<td>Latin American Literature, Modernism to Present</td>
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<td>SPAN 115</td>
<td>Magical Realism</td>
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<td>SPAN 123</td>
<td>Topics in Spanish Literature</td>
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<td>SPAN 130</td>
<td>Contemporary Mexican Literature</td>
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<td>SPAN 134</td>
<td>The Short Story in Latin America</td>
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<td>SPAN 142</td>
<td>Advanced Spanish Conversation</td>
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<td>SPAN 151</td>
<td>Civilization and Culture of Hispanic America</td>
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<td>SPAN 152</td>
<td>Civilization and Culture of Spain</td>
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<td>SPAN 153</td>
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<td>SWRK 102</td>
<td>Crosscultural Theory and Practice: Issues of Race, Gender and Class</td>
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<td>SWRK 132</td>
<td>Social Work and Spirituality</td>
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<td>SWRK 136</td>
<td>Poverty and Homelessness in America</td>
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<td>THEA 115A</td>
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<td>THEA 140</td>
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<td>THEA 144</td>
<td>Women and Theatre: Staging Diversity</td>
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<td>THEA 155</td>
<td>Contemporary World Cinema</td>
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<td>THEA 170</td>
<td>African American Theatre and Culture</td>
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<td>THEA 173</td>
<td>Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present</td>
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<tr>
<td>THEA 174</td>
<td>Multicultural Perspectives in American Theatre</td>
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<td>THEA 175</td>
<td>Multicultural Perspectives in American Film</td>
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<td>WLL 15</td>
<td>World Literatures in Film</td>
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<td>WGS 50</td>
<td>Introduction to Gender &amp; Sexuality</td>
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<tr>
<td>WGS 118</td>
<td>Asian American Women</td>
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<td>WGS 121</td>
<td>Women Of The Middle East</td>
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<td>Gender, Race, and Class</td>
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<td>WGS 137</td>
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<td>WGS 138</td>
<td>Women and Work</td>
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<td>WGS 144</td>
<td>Women and Theatre: Staging Diversity</td>
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<tr>
<td>WGS 147</td>
<td>Women's Global Issues</td>
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</tbody>
</table>

The following courses may only be taken by Peace Corps Prep students who are in the Honors Program:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2H</td>
<td>Introduction to Cultural Anthropology - Honors</td>
</tr>
<tr>
<td>HIST 50H</td>
<td>World History I: to 1500</td>
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<tr>
<td>HIST 51H</td>
<td>World History from 1500 to the Present</td>
</tr>
<tr>
<td>HONR 2</td>
<td>Great Books and World Civilization I</td>
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<tr>
<td>HONR 3</td>
<td>Great Books and World Civilization II</td>
</tr>
<tr>
<td>HONR 120</td>
<td>Honors One World Seminar</td>
</tr>
</tbody>
</table>

The following courses may only be taken by Peace Corps Prep students who are Child Development Majors:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CHAD 135</td>
<td>Culture and Human Development</td>
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</tbody>
</table>

The following courses may only be taken by Peace Corps Prep students who are Criminal Justice Majors:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 163</td>
<td>Leadership in Criminal Justice and Public Safety</td>
</tr>
</tbody>
</table>

The following courses may only be taken by Peace Corps Prep students who are Family and Consumer Sciences Majors:
The department offers a broad range of courses, including:

- Political Theory
- American Politics
- Public Law
- International Relations
- Comparative Politics
- Public Policy

Students who are Humanities and Religious Studies Majors may take:

- RPTA 169
- RPTA 182
- RPTA 117

Students who are Kinesiology Majors may take:

- KINS 137

Students who are Psychology Majors may take:

- PSYC 100
- PSYC 142
- PSYC 165

Students who are Recreation, Parks, and Tourism Administration Majors may take:

- RPTA 106
- RPTA 117
- RPTA 182
- RPTA 169

Professional and Leadership Development Skills

Complete both of the following:

- College 2 Career Readiness Program
- Green Certificate of the Leadership Initiative

Total Units: 43-57


Political Science

*College of Social Sciences and Interdisciplinary Studies*

**Program Description**

Political Science is devoted to the study of the theory and practice of government and politics. The Political Science Department at Sacramento State offers courses in several fields of study, including: Political Theory, American Politics; Public Law; International Relations; Comparative Politics; and Public Policy. Over 70 courses cover all the major aspects of political science. Lower division courses satisfy General Education requirements and help to prepare students for advanced work.

The Political Science major complements a student’s liberal arts education with an emphasis on understanding the theoretical and practical aspects of government and politics. The department offers a BA in Political Science, a BA in International Relations, a BA in Political Science-Journalism, and the minor in Political Science. Our majors are structured to provide students with a background in the basic fields of political science, as well as to permit them a range of choice in completing the program. The Political Science Department offers several courses integral to interdisciplinary programs such as California Studies, Environmental Studies, Ethnic Studies, Peace and Conflict Resolution Studies, and Women’s and Gender Studies.

Students should select a faculty advisor who shares the student’s academic interests. For students who wish to pursue graduate work in Political Science, a Master of Arts degree is offered.

**Degree Programs**

- BA in International Relations (p. 1049)
- BA in Political Science (p. 1051)
- BA in Political Science and Journalism (p. 1052)
- Minor in Political Science
- MA in Political Science (California and its Political Environment) (p. 1054)
- MA in Political Science (International Relations/Comparative Government) (p. 1055)
- MA in Political Science (Political Theory) (p. 1057)
- Capital Fellows Certificate in Applied Policy and Government (p. 1053)

**Special Features**

- Located in the state capital, the Sacramento State program offers unusual opportunities for the study of government and politics and especially for internships. Students have served internships with state legislators, legislative committee staffs, special interest and lobbying groups, and administrative agencies. Placement is also possible in local government executive agencies and with county supervisors, city council members, and selected political campaigns. Students applying for internships should have had (or be taking in the same semester) POLS 180, California State and Local Government, and must have passed the Writing Placement for Juniors Examination.

- Sacramento State students may apply for the Sacramento Semester Program, which brings students from all California State University campuses to Sacramento for one semester to take advantage of the unique learning experience at the State Capitol. The heart of this program is six units of internship with the legislature or other state offices. An accompanying 6 unit seminar course in state government and politics allows students to integrate their practical internship experience with academic work.

- Students who work in the day will be interested to know that class scheduling permits completion of the general Government major in the late afternoon and evening hours.

**Career Possibilities**

Government majors enter careers in government at the local, state, or federal level, political campaigns, non-profit and non-governmental organizations, lobbying, urban planning, or policy-related fields of all kinds. Others go into teaching at all levels, journalism, business, and Government, of course, is a popular major for students interested in pursuing legal careers. Examples of possible careers include: policy analyst, specialist in legislative and governmental relations, budget analyst, campaign manager, Foreign Service officer, attorney, paralegal, high school teacher.
POLS 1. Essentials Of Government. 3 Units
General Education Area/Graduation Requirement: GE AREA D, U.S. Constitution + California State & Local Govt
Term Typically Offered: F_S_S_W

Examines the U.S. Constitution, the U.S. system of governments and the ideas and values on which they are based. Fulfills state code requirements for U.S. Constitution and California State and Local Government. Students who believe they have a good fundamental knowledge of the institutions of American Government are encouraged to consider a designated upper division course to fulfill the state requirement.

POLS 1H. Honors Government. 3 Units
General Education Area/Graduation Requirement: GE AREA D, U.S. Constitution + California State & Local Govt
Term Typically Offered: Fall, Spring

Explores some of the most influential works of politics and political writing in American history, and challenges contemporary analysis of political institutions and processes. Examines the structure of the Constitution, issues of federalism, the growth of civil rights, and the processes of government, with a comparative element. Explores the unique characteristics of California state politics.

POLS 10. The Meaning of Government: An Introduction to Political Ideas. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Examination of the ideas of various authors about governing and being governed. Topics include: the scope and limits of freedom, the causes and characteristics of the state, the content of politics, the nature of authority, the problems of power and the duty to obey.

POLS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, the resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies, and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support. Units may not be applied toward Political Science, International Relations, or Political Science-Journalism majors, or Political Science minor.

POLS 35. World Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Basic introduction to global politics focusing on a broad range of issues and problems relating to conflict and cooperation among nations, and on similarities and differences among nations’ governmental institutions, structures and processes.

POLS 96. California Constitution & Government. 1 Unit
Prerequisite(s): Instructor approval required.

Examines the California state constitution, the structure and role played by both the state government and local governments in California. Students who pass the course will petition the Dean of Undergraduate Studies for credit in meeting the California Government portion of the American Institution requirement. Note: Experimental course.

Credit/No Credit

POLS 100. Introduction to Research Methods in Political Science. 3 Units
Term Typically Offered: Fall, Spring

Examines the foundations of scientific research methodology in political and social science. Designed to introduce students to the basic conceptual, observational and analytical methods of empirical research in political science and related social sciences.
POLS 102. Quantitative Reasoning in Political Science. 3 Units

General Education Area/Graduation Requirement: Further Studies in Area B (B5)

Term Typically Offered: Fall only

Exploration and applications of analytical reasoning to topics and issues in political science. Focuses on the quantitative aspects of political behavior, interactions, and institutions. Topics may include electoral systems, rational choice, models of voting, polling, redistricting, and game theory.

POLS 110. Political Thought I. 3 Units

Term Typically Offered: Fall, Spring

History of political theory, covering some important thinkers and topics during the Ancient, Medieval and Early Modern periods.

POLS 111. Political Thought II. 3 Units

Term Typically Offered: Fall, Spring

History of political theory, covering some important thinkers and topics from the Early Modern period to the early 20th century.

POLS 112. Current Political Thought. 3 Units

Term Typically Offered: Fall, Spring

Current issues in political thought, with emphasis upon developments in the political philosophies of democracy, fascism, communism, conservatism, liberalism. Ideas are analyzed with reference to assumptions on which they are based and their relevance for political institutions and problems.

POLS 113. American Political Thought. 3 Units

General Education Area/Graduation Requirement: U.S. Constitution + California State & Local Govt, GE AREA D

Term Typically Offered: Fall, Spring

Assessment of ideas that are central to the development of an American political tradition, as those ideas influence government at the federal, state and local levels. Meets the state requirements in U.S. Constitution and California State and Local Government.

POLS 115. Democratic Theory. 3 Units

Term Typically Offered: Spring only

Introduction to basic questions of democracy. Draws on classical and contemporary writings to explore what democracy means and various forms of democratic government, politics, and culture: direct, representative, liberal, republican, pluralist, elitist. Specific topics may include: definitions of democracy, justifications for democracy, arguments for increasing or limiting democratic participation, tasks of political representatives, democratization of social institutions, and the relationship between globalization and democracy.

POLS 117. Black Political Thought. 3 Units

Term Typically Offered: Spring only

Systematically and analytically introduces the predominant political trends and concepts presently entertained and harbored in the Black Community. A necessary adjunct to this dialogue is the racist theme in American society since on balance this is the matrix out of which the political alternatives and concepts grew.

Cross Listed: ETHN 117; only one may be counted for credit.

POLS 118. Just War, Natural Right, and the Law of Nations. 3 Units

Term Typically Offered: Fall only

Examines fundamental conceptual questions about morality, law, and international relations through great works of political theory. Topics will cover natural right, sovereignty, just war, imperialism, national security, and international obligations. Authors read will include Thucydides, Aristotle, Aquinas, Machiavelli, Grotius, Montesquieu, Kant, Hegel, Marx, Mill and Nietzsche.

POLS 119A. Socialism Marxism-Communism. 3 Units

Term Typically Offered: Fall only

Analyzes the basic writings and ideas of Socialist and Marxist writers and the implications of their ideas.

POLS 119B. Greek Political Thought. 3 Units

Term Typically Offered: Fall only

Study of the political thought of Greece from Homer to Demostenes, including Plato, Thucydides, Sophocles, and other Greek thinkers. Topics include the birth of democracy, the sciences and philosophy, Athens' rise to prominence, its defense of freedom against Persia, and its own development of an empire. Examination of Greek thoughts about justice, authority, freedom, equality, and culture. The events that shaped ideas and ideas that shaped events, as well as our understanding of the modern world, will be covered.

POLS 119D. Shaping of the Modern World. 3 Units

Term Typically Offered: Spring only

This course examines major problems that have shaped the modern world, the historical and intellectual roots of the modern world, and debates over the meaning of modernity. Considers how both advocates and critics of modernity have understood the relation of history, philosophy, politics, nature, religion, economics, and other key concepts. Specific topics may include: the development of modern science, technological progress, democratic institutions, capitalism, colonialism, secularization, religious tolerance, and individual freedom.

POLS 120A. Constitutional Law. 3 Units

Prerequisite(s): GOVT 1 or GOVT 150

Term Typically Offered: Fall, Spring

Basic junior level course in Public Law. A study of leading decisions of the U.S. Supreme Court and other materials pertaining to the power of Congress, the President and the Judiciary; relations between states and nation; and civil rights. Considers such topics as the separation of powers, judicial review, Congress, and the President.

POLS 120B. Constitutional Rights and Liberties. 3 Units

Prerequisite(s): GOVT 1 or GOVT 150

Term Typically Offered: Fall, Spring

Basic junior level course in Public Law. A study of rights and immunities under the U.S. Constitution: examines leading decisions of the U.S. Supreme Court and other materials pertaining to freedom of expression, freedom of association, equality and due process of law.
POLS 121. American Legal History. 3 Units
Term Typically Offered: Fall only
Examines the interaction of law, society, and politics in America from the colonial period to the present with special emphasis on law as an arena of social and cultural conflict. Major topics include the development of the common law in early America; the law of slavery and its impact on constitutional development; the role of the law in defining controversies over race and gender; legal thought and education; and the role of the Supreme Court in 20th Century America. Cross Listed: HIST 180; only one may be counted for credit.

POLS 122. The Law and Bureaucracy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Not offered
Examines constitutional and statutory limits of bureaucratic power in the American political system.

POLS 123. Elements Of Law. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only
Current legal thought in the U.S. with special emphasis on the relationship of law to history, economics, anthropology, and government; the nature of law; the role of legislators, lawyers, and judges in making the legal system.

POLS 126. Politics and Lawyers. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring
Examines and analyzes the pervasiveness of lawyers and their activities in political realities; what do lawyers do; politics of prosecution and defense; politics within the profession; professional mobility; politics of the judiciary; lawyers in government.

POLS 127. International Law. 3 Units
Term Typically Offered: Spring only
This course links both theoretical and practical aspects of international law and international relations, from the traditional law of nations to individual subjects, jurisdictions, and immunities. The course surveys topics such as genocide, human rights, immigration, the use of force, international courts and tribunals, the environment, and the law of the sea, using illustrative court cases, treaties, and customs that establish important precedents in international law.

POLS 128. Environment and the Law. 3 Units
Term Typically Offered: Spring only
Introduction to environmental law, including: the evolution of environmental legislation, environmental issues in the court system, environmental regulation and administrative law and environmental torts. Emphasis is on understanding legal process and the special challenges environmental problems present to the legal system. Cross Listed: ENVS 128; only one may be counted for credit.

POLS 130. International Politics. 3 Units
Term Typically Offered: Fall, Spring
Basic junior-level course in International Relations. Current international tensions; the motivating forces influencing world politics; and the role of diplomacy and international organizations in resolving conflicts.

POLS 131. International Organization. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Spring only
Examines human efforts to create supranational organizations to promote world peace and prosperity. The focus will be on social, political, and economic activities and problems which have developed and proliferated since the end of the Second World War.

POLS 132. War and Peace in the Nuclear Age. 3 Units
Term Typically Offered: Not offered
Covers the discovery of atomic fission, the development of the atomic bomb and the evolution of U.S. nuclear weapons and strategy from 1945 to the present. It examines political, strategic, bureaucratic, economic and cultural forces that have shaped U.S. nuclear policy since Hiroshima. The problem of international security in the Nuclear Age is also addressed.

POLS 133. American Defense and National Security. 3 Units
Term Typically Offered: Spring only
Analyzes U.S. security policy, looking at the structure and ideologies of the security system, the requirements of national defense, and the roles played by conventional and nuclear weapons in protecting and promoting American security.

POLS 134. War, Peace and the Mass Media. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring, Summer
Concerned with the relationship of mass media to war and the possibilities for peace, with emphasis on recent concepts of political communication. Cross Listed: JOUR 134; only one may be counted for credit.

POLS 135. American Foreign Policy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only
Institutions, practices and development of American foreign policy; the interaction of domestic and foreign factors on the formulating of American foreign policy since World War II.

POLS 136. International Political Economy. 3 Units
Term Typically Offered: Fall, Spring
Analyzes the interaction between politics and economics at the international level. Covers basic theoretical approaches; historical evolution of international economy; creation and role of international financial institutions; development issues; globalization and integration.

POLS 137. Nationalism. 3 Units
Prerequisite(s): GOVT 35 or GOVT 130 or instructor permission
Term Typically Offered: Fall, Spring
Focuses on major theories of nationalism. Examines the literature dealing with theories explaining the emergence of nationalism and its political consequences; develops a comprehensive set of empirical indicators of nationalism, together with several working hypotheses regarding political manifestations of nationalism; provides the analytic frame for understanding nationalism; and applies theories to explain political behaviors of nations.
POLS 138. UN Simulation. 3 Units
Prerequisite(s): Junior status or above, a minimum 3.0 GPA in the major, GOVT 130 and/or GOVT 140, or instructor permission.
Term Typically Offered: Fall, Spring

Seminar experience for upper level Government and International Relations concentration majors. Students will prepare for and participate in a national intercollegiate model UN conference.
Note: Course repeatable with instructor permission.

POLS 138B. UN Simulation Practicum. 3 Units
Prerequisite(s): POLS 138. instructor permission only.
Term Typically Offered: Spring only

Practicum experience for role-playing in a UN simulation. Students will prepare for a national intercollegiate model UN conference, practicing persuasion and negotiation tactics and skills in a debating format.
Note: The course may be repeated with instructor permission up to a total of six units.

Credit/No Credit

POLS 139A. Globalization. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall only – odd years

Explores the nature of, and issues in, globalization. It does so in five parts. Part I examines alternative conceptions of globalization. Part II identifies and examines the primary forms of economic globalization. Part III considers globalization’s effects on the territorial state, the welfare state, organized violence, culture, immigration, gender, and the environment. Part IV investigates the politics of the anti-globalization backlash. Part V concludes with an assessment of the shape and future of contemporary globalization.

POLS 139B. International Politics and International Development. 3 Units
Prerequisite(s): GOVT 130 or Instructor Permission
Term Typically Offered: Fall only – even years

This course examines the origins and evolution of the theory and practice of international development; considers the meaning of international development; examines theoretical models and approaches to understanding the conditions, effects, and processes of international development. It explores the history and current state of theories and approaches to international development and addresses contemporary and essential issues in the field.

POLS 139C. Critical Writings in International Relations. 3 Units
Prerequisite(s): POLS 130
Term Typically Offered: Fall only – odd years

This undergraduate seminar examines writings and other materials that analyze how race and economic exploitation, gender and patriarchy, and intersectionality have influenced the theory and practice of international relations from the sixteenth through the twenty-first centuries.

POLS 139E. International Conflict and Ethnicity. 3 Units
Term Typically Offered: Fall, Spring

This course examines the role of ethnicity or identity in violent and nonviolent international conflicts. This course traces the dynamics of violent and nonviolent conflicts around the globe from a comparative approach, and unpacks the role identity plays in the mobilization, strategies, and responses of the international community to these conflicts.

POLS 139G. Intelligence and Espionage. 3 Units
Term Typically Offered: Fall only

Involves students in the study of the field of intelligence, as it relates to national security, foreign policy, law and ethics. Comparative analysis of the practice and experience of the U.S., the former Soviet Union and other nations will be emphasized.

POLS 139S. Topics in Human Security. 3 Units
Term Typically Offered: Spring only

This course introduces students to the broad field of the study of human security and many essential current topics in that field, such as access to food and water, security against personal violence, and economic security. Students will examine how international forces and structural elements of society can endanger or ensure the security of groups and individuals within the borders of nation-states. Students will learn to research, analyze, and address the connections between international forces and their affects upon human beings around the world.

POLS 140. Comparative Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Survey of the field of comparative government and politics including a review of historic uses of comparison in political science research but with emphasis on the methods of study and analytical means of research currently employed. The subject matter of study: national political systems of all types and the component parts of political systems will be an integral feature.

POLS 141. Politics of the African Diaspora. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall only

Examines the social, political, cultural, and economic factors which have been important to the African diaspora. Examines how African people have responded to those factors, both in terms of formal, political thought, and in terms of political movements and political institutions. Examines thought and practice, comparability to Africa, U.S., Caribbean, Central and South America. Cross Listed: ETHN 141; only one may be counted for credit.

POLS 142. Government and Politics in Africa. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only – even years

Deals with the politics and governments of Africa. The most important themes concern precolonial African systems, colonialism, nationalism and nation-building. Previous exposure to African Studies is desired but not required.
POLS 143. Causes of War, Causes of Peace. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Explores the entire conflict process associated with war from a variety of theoretical and methodological angles, including rationalist and behavioral models. Examines the concept of war and why wars begin. Looks at how violent international conflict is resolved. Investigates the role of the international community in the management of violent conflict, how peace processes are implemented, what leads to successful negotiations, and how war crimes and post-conflict reconciliation issues are resolved.

POLS 144. European Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Study of national and regional politics, governmental institutions and public problems in Europe since 1945. In different semesters there may be investigation of several, but varying, national systems, of cross-national political behavior, or of regional integration processes. May be taken more than once if there are different topics and instructor permission.

POLS 145. Asian Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Survey of governmental institutions and political processes in East and Southeast Asia. Focuses on the region’s politics, dynamic economic growth, complex security context, resurgence of nationalism, and attempts to build multilateral institutions.

POLS 146. US-China Relations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

This course explores the historical foundation of US-China relations, tracing from 19th century encounters through world wars, ideological confrontation, rapprochement, and into the contemporary era. Focus on international and political dimension of diplomatic and strategic interests, also explores cultural and social connections through trade, investment, migration, and tourism.

Cross-listed: ASIA 146.

POLS 147. Latin American Government and Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Two-part examination of government, politics, political change and political groups in Latin America. Part one examines the development of government, politics, political change and political groups. Part two presents national case studies.

POLS 148. Governments and Politics in the Middle East. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Survey of the governmental institutions and the political processes in the region, with emphasis on the problems of social change. Focuses on the colonial situation, the growth of nationalism, the revolution of rising expectations, Islamic political theory and its contemporary manifestations, the role of the military, and the current regional conflicts.

POLS 149A. Original Research in Comparative Politics. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X. POLS or IR majors or instructor consent only.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Students will engage in a cross-national research agenda. Students will conduct original research in comparative politics. Countries and topics acceptable for comparison will vary with instructor.

POLS 149R. Comparative Revolutions. 3 Units
Term Typically Offered: Fall, Spring

This course is primarily concerned with the causes, trajectories, and consequences of major revolutions and revolutionary movements of the 20th and 21st centuries. The course addresses the questions: what defines a revolution? What are the causes of revolutionary social change? Why do some revolutions fail to achieve their intended objectives and others succeed? How can political scientists investigate the possibility of objectively assessing revolutionary success or failure?

POLS 150. American Governments. 3 Units
General Education Area/Graduation Requirement: U.S. Constitution + California State & Local Govt, GE AREA D
Term Typically Offered: Fall, Spring, Summer

Federal system of government; the U.S. Constitution; legislative, executive, and judicial processes; political parties, interest groups, and the relationships and obligations of citizens to their government(s). Fulfills the California state graduation and credential requirements for U.S. Constitution and California State and Local Government. May be substituted for GOVT 1, but may not be used as an elective toward the major.

POLS 151. Bureaucracy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Not offered

Evaluation of the role and background of a professionalized bureaucracy with references to American national, state and local administrative systems as well as non-American administrative systems.

POLS 152. Political Psychology. 3 Units
Term Typically Offered: Fall, Spring

Examines the ways in which political behavior is shaped by individual beliefs, personalities, cognitive patterns, biases, and other psychological mechanisms. Students will engage with a wide range of research on topics such as cognitive styles, personality, obedience, psychological roots of terrorism, the psychology of ideology, and the role of emotion in politics.

Cross-listed: PSYC 153

POLS 153. The American Presidency. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Spring only

Examines the development of the Presidency as an institution; sources and uses of presidential power in contemporary politics; the President’s relationship with Congress and the bureaucracy; and current issues relating to the office.
Examination and analysis of American political parties. An exploration of the nature and functions of political parties including party organization, electorate, and government. Topics include the various historical party systems, the two-party system, elections, and campaign financing. Includes discussion of the presidential nominating process.

**POLS 154. Political Parties in America.**
3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Examination and analysis of interest groups in American political systems. The nature, role, formation, organization and activities of interest groups; how interest groups influence the public, political campaigns, public policy-making, and policy implementation. Representative interest groups will be studied.

**POLS 156. Interest Groups.**
3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only

Focuses on the role the mass media plays in the political life of our democracy. Five primary topics are covered: the proper media role in a democracy; the relationship between the media, public opinion and agenda setting; the effects of media coverage on campaigns, elections, and voting; how elected officials influence and "spin" coverage; and the impact of media on policy-making. Students will develop critical analysis skills and emerge as more savvy media consumers and citizens.

**POLS 157. Politics, Opinion, and Participation.**
3 Units
Term Typically Offered: Fall, Spring

Explores the history of American political parties and the role they play in the political process. Examines the development and organization of the institution, the role of leadership and political parties, chamber differences, congressional elections, and the relationship with the executive branch. Examines the legislative process. Evaluates the nature of representation in contemporary society.

**POLS 155. United States Congress.**
3 Units
Term Typically Offered: Fall only

This course will provide an overview of the political discussions and decisions related to immigration and citizenship in the US. More specifically, this course examines: (1) key political and policy actors in the development of immigrant admissions and immigrant integration policies, (2) the nature and consequences of immigration at the national, state, and local levels, (3) evolving racial and ethnic relations in the US, (4) public opinion and immigration-immigrants participation in American political life, and (5) contemporary issues.

**POLS 159D. Politics, Immigration, and Citizenship.**
3 Units
Prerequisite(s): GOVT 1
Term Typically Offered: Fall, Spring

Examines the phenomenon of political underrepresentation in the U.S.A. It will identify significant affected groupings, examine the conditions which have resulted in such underrepresentation, evaluate the effects of underrepresentation on the lives of affected groups, and consider relevant political strategies. Emphasis on particular groups may vary with instructor.
POL 166. Gender and Politics. 3 Units
Term Typically Offered: Spring only

This course examines the influence of socially constructed meanings of femininity and masculinity on the political participation of women, candidate selection, election campaigns, and electoral outcomes in executive and legislative offices in the U.S. and worldwide. Students will develop a rich understanding of the relationship between gender and women's political representation and analyze and discuss institutional, structural, cultural, and historical conditions associated with women's voting behavior, political advancement, leadership styles, and impacts of political representation on women.

POL 167. American Political Development. 3 Units
Term Typically Offered: Fall only

Focuses on key transformative sequences in American political history and their consequences. Topics include the nature of American political culture and its role in shaping U.S. political institutions and public policy; the process of government growth or "state building"; the role of political institutions in channeling societal demands and influencing public policy; the nature of American party systems or "regimes" and the electoral "realignments" that link them; and connections between long-term economic and political cycles.

POL 168. LGBTQ Politics. 3 Units
Term Typically Offered: Fall, Spring

This course provides an in-depth examination of the politics and history of the lesbian, gay, bisexual, transgender, and queer (LGBTQ) communities in the United States. Particular emphasis will be placed on current American political issues impacting the LGBTQ community.

POL 169A. Science, Technology, and Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Social and political dimensions of science and technology. Examines how science and technology both shape politics and are shaped by politics. Considers the role of scientific advisors in government and society; dilemmas of expert authority and bias; relations between experts and non-experts; science and technology in popular culture; science and technology policy; implications of emerging technologies such as genetic engineering and the Internet for civil rights, moral values, and democracy.

POL 169D. Latino/a Politics. 3 Units
Prerequisite(s): GOVT 1
Term Typically Offered: Fall, Spring

Systematically and analytically examines the predominant political trends, concepts, and policies presently impacting Latino/a communities. Includes such topics as an examination of Latino/a identity, immigration and citizenship, political organization and participation, and relationships with other minority groups in the United States.

POL 170. Public Policy Development. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150 and GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Examines the policy development process in the U.S. by exploring the ideological predispositions of the American public, the analytical approaches applied to policy development and assessment, and the institutional and political environment in which policy is made. Typically, the understanding derived from this examination is applied to several policy issues of current interest.

POL 171. Environmental Politics and Policy. 3 Units
Term Typically Offered: Spring only

Politics of human interaction with land, air and water. Political analysis of agenda setting, policy formation and administration (national, state, and local) of environmental programs. Focus on contemporary issues such as energy alternatives, management of toxics, land development, and pollution control. Cross Listed: ENVS 171; only one may be counted for credit.

POL 180. California State and Local Government. 3 Units
General Education Area/Graduation Requirement: California State & Local Government, GE AREA D
Term Typically Offered: Fall, Spring, Summer

California state, city and county politics and government. Comparisons with governments in other states. Meets State requirements in California State and Local Governments. Permits students who have fulfilled U.S. Constitution requirement in another state to meet graduation requirements for California State and Local Governments.

POL 181. Comparative State Government. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150.
Term Typically Offered: Spring only

Examines the political diversity of the fifty states, with special attention paid to variations in state governing institutions. Topics covered include legislatures, governors, judiciaries, political parties, interest groups, elections, direct democracy, and state budget procedures.

POL 182A. Sem Calif Govt+Politics. 3 Units
Term Typically Offered: Spring only

Open to selected students from each of the 20 CSU campuses, the Sacramento Semester program provides students with an opportunity to spend the semester studying and working directly in California State government. Participating students work as interns at the State Capitol for 25 or more hours each week. Interns are placed in legislators' offices, with legislative committees, party caucuses, lobbyists and interest groups, or in various executive, administrative, and judicial agencies. In addition to the internships, students participate in an academic seminar, California Government and Politics. The seminars frequently include as resource persons individuals who work in key policy-making positions in the state government.

POL 182B. Sem Calif Govt+Politics. 3 Units
Term Typically Offered: Spring only

Open to selected students from each of the 20 CSU campuses, the Sacramento Semester program provides students with an opportunity to spend the semester studying and working directly in California State government. Participating students work as interns at the State Capitol for 25 or more hours each week. Interns are placed in legislators' offices, with legislative committees, party caucuses, lobbyists and interest groups, or in various executive, administrative, and judicial agencies. In addition to the internships, students participate in an academic seminar, California Government and Politics. The seminars frequently include as resource persons individuals who work in key policy-making positions in the state government.
POLS 184. Introduction to Urban Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only

Problems of urban areas and proposed solutions; politics and government. May be offered as lecture-discussion class or as a seminar. Field study may be required.

POLS 195A. Internship. 1 - 6 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W. Minimum GPA of 2.5 (both in the major and overall).
Term Typically Offered: Fall, Spring, Summer
Credit/No Credit

POLS 195B. Internship Sacramento Semester. 1 - 6 Units
Prerequisite(s): Minimum GPA of 2.5 (both in the major and overall).
Term Typically Offered: Spring only
Credit/No Credit

POLS 195D. Internship - Washington DC. 6 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring
Credit/No Credit

POLS 198A. Odyssey Peer Advisers. 1 - 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Provides individualized learning opportunities (1-3 units per semester) for engaging in peer advising along with elective activities such as tutoring, assisting faculty with research, event planning and other activities of a comparable nature. Students should be upper division students or graduate students. The units may not be applied towards unit requirement of the Government major, Government IR and Government/Journalism.
Note: This course may be repeated up to a total of six units.
Credit/No Credit

POLS 198B. Peer Advising by Odyssey. 1 Unit
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Provides opportunity for lower division students, students on probation, and newly declared majors to be mentored by more advanced upper division students or graduate students. This peer advising will help students meet academic deadlines, achieve academic success, become engaged in campus activities and integrated into the Government Department. Units may not be applied towards unit requirement of the Government major, Government IR and Government/Journalism.
Note: This course may be repeated one time only for unit credit.
Credit/No Credit

POLS 199. Independent Studies. 1 - 3 Units
Prerequisite(s): GOVT 1 or equivalent, and nine units upper division government courses.
Term Typically Offered: Fall, Spring

Permits a student to pursue study and research in an area not otherwise available through the regular curriculum. Open only to upper division Government majors with at least a 3.0 GPA in the major.
Credit/No Credit

POLS 200. Method and Scope in Political Science. 3 Units
Prerequisite(s): STAT 1 or its equivalent.
Term Typically Offered: Fall, Spring

Introduction to the philosophy of science, and the scope and methods of empirical research in political, social, and policy science. In the area of philosophy of science, focuses on the logic of scientific inquiry, theory testing and confirmation and causal explanation. In the area of scope and methods, critically examines the scientific merits of several competing approaches to the study of politics and policy, as well as some of the major methodological controversies and debates in the literature.

POLS 201. Writing in Political Science. 3 Units
Term Typically Offered: Fall, Spring

A graduate-level seminar which introduces students to the research and literature in major fields in political science. Explores the norms of writing across the political science discipline, including for example: formal academic writing, policy writing, persuasive advocacy writing, methodological writing, and peer review. Broadly examines the literature from International Relations, Comparative Politics, American Politics, Political Theory, and Methods.

POLS 210. Political Theory. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring

Historical and social roots, democratic or authoritarian ideologies; the conflict of ideologies; philosophic approaches.
Note: May be repeated for credit with permission of Graduate Coordinator.

POLS 213. Special Topics in American Political Thought. 3 Units
Term Typically Offered: Fall, Spring

A class examining the historical and philosophical discourse in America on central topics of debate, such as the meaning of citizenship, civil society, democracy, federalism, religion, and civil rights open to both advanced undergraduates and graduate students.
Note: Undergraduates are strongly encouraged to have completed GOVT 113 or an equivalent course.

POLS 218. Special Topics in International Political Thought. 3 Units
Term Typically Offered: Fall, Spring

A class examining the philosophical underpinnings and the theatrical problems of central concepts and problems in international relations, including human rights, intercultural dialogue, problems of just war and international justice through a study of historical and contemporary texts open to both advanced undergraduates and graduate students.
Note: Undergraduates are strongly encouraged to have completed GOVT 118 or an equivalent course.

POLS 219. Specialized Studies in Political Theory. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Makes it possible for political theory students to deal with questions which theorists have asked, and to attempt to answer such questions for themselves.
Note: May be repeated for credit with permission of Graduate Coordinator.
POLS 230. Theories of International Relations. 3 Units
Prerequisite(s): Upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring
Examination of the theory and practice of international relations including such subfields as international law, international organization, foreign policy and national security policy.
Note: May be repeated for credit with permission of Graduate Coordinator. Cross Listed: IA 210; only one may be counted for credit.

POLS 236. Seminar in International Political Economy. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring
This seminar is a graduate-level introduction to the theory and substance of international political economy (IPE). It examines the various theoretical approaches to IPE; considers the role of trade, money, and finance in the international political economy; analyzes the pattern and structure of global production, with an emphasis on multinational corporations; surveys international development issues, including Third World economic development strategies, the debt crises, structural adjustment, and economies in transition; and investigates the politics of globalization.
Cross Listed: IA 221; only one may be counted for credit.

POLS 239. Globalization and International Relations. 3 Units
Prerequisite(s): An upper division course in international relations or instructor permission.
Term Typically Offered: Fall, Spring
Introduction to the theories and substance of globalization. It examines alternative theories of globalization; considers globalization's political impact on the territorial state, regionalism, the welfare state, the military, immigration, and the environment; investigates the politics of the anti-globalization backlash; and concludes with an assessment of the future political trends of globalization.
Cross Listed: IA 230; only one may be counted for credit.

POLS 240. Comparative Government and Politics. 3 Units
Prerequisite(s): Advanced course in the field.
Term Typically Offered: Fall, Spring
Advanced study of some of the world's governmental and political systems. May focus on single countries, groups of countries or general categories of systems. Considers theoretical concept and methodology.
Note: May be repeated for credit with permission of Graduate Coordinator. Cross Listed: IA 222; only one may be counted for credit.

POLS 249A. Middle East Politics and the United States. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Graduate introduction to politics and governments of the Middle East and the impact of the United States foreign policy in the region. Relies on a comparative frame to tease out the causes of intrastate and interstate conflicts in the region, as well as the effects of the American foreign policy on the contemporary political trends in the Middle East, including those relating to the Arab-Israeli conflict, Islamic political resurgence, and terrorism.

POLS 250. Basic Issues of American Government. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring
Exploration in-depth of topics such as federalism, executive-legislative relationships, problems of representation, government reorganization, congressional reform, the electoral process.
Note: May be repeated for credit with permission of Graduate Coordinator.

POLS 270. Political Behavior and Political Processes: California and Beyond. 3 Units
Term Typically Offered: Fall, Spring
Course will explore public opinion, voting behavior, representation and political psychology with special focus on California.
Note: Undergraduates may take the course with instructor permission.

POLS 280. California Politics. 3 Units
Term Typically Offered: Fall, Spring
Advanced study of California's state and local governments, with emphasis on political history, political institutions, and the role of direct democracy on the state's government, budget and politics. Demographic and geographic elements will be scrutinized through a political focus. California's policy and political process will also be examined, as well as discussion of various political reforms.
Note: Undergraduates may take the course with instructor permission. Prerequisite

POLS 281. Comparative State Government. 3 Units
Term Typically Offered: Fall, Spring
Examines state political institutions and processes. Special attention will be paid to how the political variation among the states shapes processes and outcomes. Topics covered will include governors, legislatures, interest groups, public opinion, political parties, and elections.

POLS 284. Urban Politics. 3 Units
Term Typically Offered: Fall, Spring
In-depth exploration of the socio-economic problems of urban and metropolitan areas and an evaluation of proposed political and governmental solutions.
Note: May be repeated for credit with permission of Graduate Coordinator. Cross Listed: PPA 284; only one may be counted for credit.

POLS 293A. Senate Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring
Critical analysis and examination of the operation of the State Capitol and the larger political environment of political parties, interest groups, and public opinion.
Note: Open only to students admitted to the California Senate Fellows Program.

POLS 293B. Senate Fellows Policy Seminar. 3 Units
Term Typically Offered: Fall, Spring
Seminar will analyze procedural issues and public policy questions within the State Senate, legislature, and contemporary California politics.
Note: Open only to students admitted to the California Senate Fellows Program.
Program Description

The International Relations major complements a student's liberal arts education with an emphasis on understanding the theoretical and practical aspects of government and politics with a focus on global politics. The International Relations major is structured to provide students with a background in the basic fields of political science with an emphasis on the fields of Comparative Politics and International Politics, as well as to permit them to take supporting courses in a range of other disciplines with foci on politics and cultures in regions outside the United States and in the international system.

Minimum GPA Requirement

Students are required to maintain a minimum 2.0 GPA.

Program Requirements

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<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td></td>
<td><strong>Required Lower Division Courses (3 Units)</strong></td>
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<tr>
<td>POLS 1</td>
<td>Essentials Of Government</td>
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<td></td>
<td><strong>Required Upper Division Courses (15 Units)</strong></td>
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<tr>
<td>POLS 100</td>
<td>Introduction to Research Methods in Political Science</td>
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<tr>
<td>POLS 111</td>
<td>Political Thought II</td>
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<td>or POLS 110</td>
<td>Political Thought I</td>
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<td>or POLS 112</td>
<td>Current Political Thought</td>
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<td>POLS 130</td>
<td>International Politics</td>
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<td>POLS 136</td>
<td>International Political Economy</td>
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<td>POLS 140</td>
<td>Comparative Politics</td>
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<td><strong>Electives (24 Units)</strong></td>
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<td>Select 24 units</td>
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<td>POLS 35</td>
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<td>POLS 118</td>
<td>Just War, Natural Right, and the Law of Nations</td>
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<td>POLS 119A</td>
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<td>POLS 132</td>
<td>War and Peace in the Nuclear Age</td>
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<td>POLS 133</td>
<td>American Defense and National Security</td>
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<td>POLS 134</td>
<td>War, Peace and the Mass Media</td>
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<td>POLS 135</td>
<td>American Foreign Policy</td>
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<td>POLS 137</td>
<td>Nationalism</td>
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<td>POLS 138</td>
<td>UN Simulation</td>
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<td>POLS 139A</td>
<td>Globalization</td>
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<td>POLS 139B</td>
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<td>POLS 141</td>
<td>Politics of the African Diaspora</td>
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<td>POLS 142</td>
<td>Government and Politics in Africa</td>
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<td>POLS 143</td>
<td>Causes of War, Causes of Peace</td>
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<td>POLS 144</td>
<td>European Politics</td>
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<td>POLS 145</td>
<td>Asian Politics</td>
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<td>POLS 147</td>
<td>Latin American Government and Politics</td>
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<td>POLS 148</td>
<td>Governments and Politics in the Middle East</td>
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<td>POLS 149A</td>
<td>Original Research in Comparative Politics</td>
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<td>POLS 149R</td>
<td>Comparative Revolutions</td>
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<td>POLS 162</td>
<td>American Film and Culture in the Nuclear Age</td>
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<td>POLS 166</td>
<td>Gender and Politics</td>
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<td>Up to 3 classes (9 Units) of Electives may be taken from the following approved list of classes in other departments:</td>
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</tr>
<tr>
<td>ANTH 105</td>
<td>Anthropology of War</td>
<td></td>
</tr>
<tr>
<td>ANTH 145</td>
<td>Peoples and Cultures of Latin America</td>
<td></td>
</tr>
<tr>
<td>ANTH 161</td>
<td>African Cultures and Societies</td>
<td></td>
</tr>
<tr>
<td>ANTH 173</td>
<td>Anthropology of Contemporary Asia</td>
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</tr>
<tr>
<td>ANTH 181</td>
<td>Anthropology of Human Rights</td>
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### General Education Requirements

<table>
<thead>
<tr>
<th>Area A: Basic Subjects (9 Units)</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 - Oral Communication</td>
<td>2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>2</td>
<td>3</td>
<td></td>
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<tr>
<td>A3 - Critical Thinking</td>
<td>2</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Area B: Physical Universe and Its Life Forms (10 Units)</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B4 - Math Concepts</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>5</td>
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<table>
<thead>
<tr>
<th>Area C: Arts and Humanities (9-12 Units)</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>C1 - Arts</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Area D: The Individual and Society (3-6 Units)</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area D Course</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>3</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Area E: Understanding Personal Development (3 Units)</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area E Course</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Area F: Ethnic Studies</th>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area F Course</td>
<td>3</td>
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</table>

### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (3-6 Units)</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (9-12 Units)</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>English Composition II</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

---

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Required in Major; also satisfies GE.

3. Department offers students a “select from the following” option:
   - If student chooses to take HIST 105, HIST 142, or WGS 121 they will meet upper division Area C.

4. Department offers students a “select from the following” option:
   - If student chooses to take ETHN 137, HIST 138A, HIST 141, HIST 143B, HIST 143B, POLS 134, POLS 141, POLS 142, POLS 143, POLS 144, POLS 147, POLS 148, SOC 162, SOC 163, SOC 164, or WGS 139 they will meet upper division Area D.

---

1. POLS 150 or an AP Test of 3 or above in AP American Government may be used in place of POLS 1 to satisfy the requirement.

2. Course also satisfies General Education (GE)/Graduation Requirement.

3. 21 of the 24 elective units must be upper division.

Note:
- POLS 35 may be taken to satisfy 3 elective units all others must be selected from Government courses numbered from 130 through 149. Students may also include POLS 118, POLS 119A, POLS 127, POLS 162, and POLS 166 as electives. Up to nine (9) units of work in classes in other disciplines that have an international relations/comparative politics content can be used to satisfy the requirements of the major. Approved classes are listed above.
- The Department strongly recommends that students select elective courses that include both thematic areas, such as globalization, internal organizations, and security studies, as well as regional concentrations such as Africa, Asia, Europe, Latin America, and the Middle east.
- If a student has not taken POLS 1 or its equivalent, then POLS 150 or a score on the AP American Government Exam of 3 or above may count as the prerequisite for the major.
Race and Ethnicity in American Society (RE) 4

Foreign Language Proficiency Requirement 5

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103). Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement.

3 Department offers students a "select from the following" option:
   • If student chooses to take HIST 105, HIST 138A, or HIST 138B they will meet the Writing Intensive (WI) Graduation Requirement.

4 Department offers students a "select from the following" option:
   • If student chooses to take POLS 141 they will meet the Race and Ethnicity (RE) Graduation Requirement.

5 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C" or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

BA in Political Science

Units required for Major: 42
Total units required for BA: 120

Program Description

The Political Science major complements a student's liberal arts education with an emphasis on understanding the theoretical and practical aspects of government and politics. The department offers a BA in Political Science, a MA in Political Science-Journalism, and the minor in Political Science. The Political Science major is structured to provide students with a comprehensive background in the basic fields of political science, as well as to permit them a range of choice in completing the program. The Political Science Department offers several courses integral to interdisciplinary programs such as California Studies, Environmental Studies, Ethnic Studies, Peace and Conflict Resolution Studies, and Women's Studies.

The department emphasizes its expectation that students seek faculty advice when planning their program. Students may ask any faculty member's assistance initially. As specific interests are developed, students may wish to seek the advice of faculty sharing their interests.

Note: Although it is not a requirement of the major, the department strongly recommends that students take an introductory statistics course as part of their undergraduate work. A course in statistics may be used to satisfy the GE requirement in mathematics.

Minimum GPA Requirement

Students are required to maintain a minimum 2.0 GPA in the Major.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1</td>
<td>Essentials Of Government 1,2</td>
<td>3</td>
</tr>
<tr>
<td>POLS 100</td>
<td>Introduction to Research Methods in Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POLS 110</td>
<td>Political Thought I</td>
<td>3</td>
</tr>
<tr>
<td>or POLS 111</td>
<td>Political Thought II</td>
<td>3</td>
</tr>
<tr>
<td>or POLS 112</td>
<td>Current Political Thought</td>
<td></td>
</tr>
<tr>
<td>POLS 120A</td>
<td>Constitutional Law</td>
<td>3</td>
</tr>
<tr>
<td>or POLS 120B</td>
<td>Constitutional Rights and Liberties</td>
<td></td>
</tr>
<tr>
<td>POLS 130</td>
<td>International Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 140</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 170</td>
<td>Public Policy Development 4</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (21 Units)

Select 21 units 5

Total Units 42

1 POLS 150 or a score of 3 or higher on the AP American Government Exam may be used in place of POLS 1 to satisfy the requirement.

2 Course also satisfies General Education (GE)/Graduation Requirement.

3 The Department recommends students take no more than two of these required courses a semester.

4 POLS 170 should be taken in the final year of a student's undergraduate work.

5 18 of the 21 elective units must be upper division even though all 21 required elective units may be satisfied with upper division courses. POLS 10 and POLS 35 may be taken to fulfill 3 lower division units of the elective requirement.

Select courses from the following Fields below. A seminar and/or internship is strongly recommended.

• Political Theory
• Public Law and Judicial Studies
• International and Comparative Politics
• American Governments, Politics and Policy

These courses must be selected in consultation with an advisor from the Political Science Department.

Notes:

• POLS 150 may not be counted as an elective toward the major, but may be used in place of POLS 1 or as its equivalent as a prerequisite;
• Students may take a maximum of 6 units of a POLS 195 (Internship) within the major, but may use no more than 3 of those units to complete the 36 units of required upper division work.
• Students should be aware that the Department offers a concentration in International Relations that is distinct from a field emphasis within the major. See complete International Relations Concentration description.

General Education Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area B: Physical Universe and Its Life Forms (10 Units)
### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduation Requirements (required by CSU) (6 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Proficiency Requirement</td>
<td>6</td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement.

### Program Requirements

#### Required Lower Division Courses (9 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 1</td>
<td>Essentials Of Government</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 30</td>
<td>News Writing</td>
<td>3</td>
</tr>
<tr>
<td>JOUR/COMS 55</td>
<td>Media Communication and Society</td>
<td>3</td>
</tr>
<tr>
<td>or JOUR 50</td>
<td>Media Literacy and Critical Thinking</td>
<td>3</td>
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</tbody>
</table>

#### Required Upper Division Courses (33 Units)

**Political Science**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>POLS 170</td>
<td>Public Policy Development</td>
<td>3</td>
</tr>
<tr>
<td>POLS 180</td>
<td>California State and Local Government</td>
<td>3</td>
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</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 153</td>
<td>The American Presidency</td>
<td>3</td>
</tr>
<tr>
<td>POLS 154</td>
<td>Political Parties in America</td>
<td>3</td>
</tr>
<tr>
<td>POLS 155</td>
<td>The Legislative Process</td>
<td>3</td>
</tr>
<tr>
<td>POLS 156</td>
<td>Interest Groups</td>
<td>3</td>
</tr>
<tr>
<td>POLS 157</td>
<td>Politics, Opinion, and Participation</td>
<td>3</td>
</tr>
<tr>
<td>POLS 159A</td>
<td>Campaigns and Elections</td>
<td>3</td>
</tr>
<tr>
<td>POLS 184</td>
<td>Introduction to Urban Politics</td>
<td>3</td>
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Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>POLS 120A</td>
<td>Constitutional Law</td>
<td>3</td>
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<tr>
<td>POLS 120B</td>
<td>Constitutional Rights and Liberties</td>
<td>3</td>
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</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>POLS 130</td>
<td>International Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

3 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: [https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html](https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

### BA in Political Science and Journalism

**Units required for Major: 51**

**Total units required for BA: 120**

#### Program Description

A unique interdisciplinary program that spans the combined areas of Political Science and Journalism.

The University's association with the Washington Center makes it possible for California State University, Sacramento students to undertake an internship in Washington, D.C. There are many opportunities for Government-Journalism majors to do an internship to meet their unique interests through this program.

**Note:** Political Science and Journalism majors should have both an advisor in the Political Science Department and a Journalism Advisor in the Communication Studies Department.

#### Minimum Grade Requirement

Majors must complete each required lower and upper division Journalism course with a grade of "C-" or better.
### General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
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</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (10 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
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<tr>
<td>B2</td>
<td>Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
</tr>
<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
</tr>
<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2</td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2</td>
<td>Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area D: The Individual and Society (3 Units)</td>
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<td></td>
</tr>
<tr>
<td>Area D Course</td>
<td>0</td>
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<td>Area D Course</td>
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<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
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<td></td>
</tr>
<tr>
<td>Area E Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area F: Ethnic Studies (3 Units)</td>
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<td></td>
</tr>
<tr>
<td>Total Units</td>
<td>51</td>
<td></td>
</tr>
</tbody>
</table>

1. If a student has not taken POLS 1 or its equivalent, then POLS 150 may be used in place of POLS 1 or as its equivalent as a prerequisite.
2. Course also satisfies General Education (GE)/Graduation Requirement.
3. The Department of Political Science particularly recommends at least one course in political theory.

Note: POLS 150 may not be used as an elective.

### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (3 Units)</td>
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<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>0</td>
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</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
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<td></td>
</tr>
<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

### Capital Fellows Certificate in Applied Policy and Government

- **Units required for Certificate:** 6

### Program Description

Political Science, or Government, is devoted to study of the theory and practice of government and politics. The Political Science Department at Sacramento State offers courses in several fields of study, including: Political Theory; American Politics; Public Law; International Relations; Comparative Politics; and Public Policy. Over 70 courses cover all the major aspects of political science. Lower division courses satisfy General Education requirements and help to prepare students for advanced work.
Admission Requirements
Accepted to one of the four Capital Fellows Programs: Assembly, Judicial Administration, Executive, or Senate.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Selected Courses</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Select the two courses applicable to your program</td>
<td></td>
</tr>
</tbody>
</table>

For Senate Fellows:
- POLS 293A Senate Fellows Introductory Seminar
- POLS 293B Senate Fellows Policy Seminar

For Assembly Fellows:
- POLS 294A Assembly Fellows Introductory Seminar
- POLS 294B Assembly Fellows Policy Seminar

For Executive Fellows:
- PPA 297A Executive Fellows Introductory Seminar
- PPA 297B Executive Fellows Policy Seminar

For Judicial Administration Fellows:
- PPA 298A Judicial Administration Fellows Introductory Seminar
- PPA 298B Judicial Administration Fellows Policy Seminar

MA in Political Science (California and its Political Environment)

Total units required for MA: 30

Program Description
The Master of Arts program in Political Science is designed to orient the student toward critical investigation of problems in government and politics, and to improve the student's ability for independent study. This program is of special value to teachers of government in the public schools, to persons who contemplate public service or politics as a career, and to persons planning additional graduate study leading to the doctorate. The Political Science Department Graduate Coordinator acts as advisor to graduate students and should be consulted early in each student's program of graduate study.

Note: Because most graduate students work during the day, graduate courses are offered in the evening hours.

Admission Requirements
Admission as a classified graduate student in Political Science requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units attempted and 3.0 GPA in the major;
- a satisfactory score on the aptitude portion of the Graduate Record Examination (the Department expects the student to achieve at least the 50th percentile in the combined verbal/analytic score);
- three letters of recommendation from individuals who can evaluate the applicant's potential for successful graduate study;
- a written statement explaining the applicant's purposes and goals in pursuing a master's degree in Political Science; and

- an example of written work which the applicant considers evidence of his/her best scholarship regardless of the grade received.

Applicants who have deficiencies in Admission Requirements that can be removed by specified additional preparation may be admitted to the degree program with conditionally classified graduate status. Students with an undergraduate major in any subject may be accepted; no minimum number of units in Government/Political Science is required. However, if a student's preparation in the field of government or political science is not adequate preparation for graduate study, he/she may be asked to complete some additional coursework before becoming classified. Any deficiencies will be noted on a written response to the student's admission application. No upper division prerequisite courses required as a condition of classification can be counted towards the degree requirement.

Admission Procedures
Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6740:

- an online application for admission;
- one set of official transcripts from all colleges and universities attended, other than Sacramento State; and
- Graduate Record Examination scores, aptitude portion only.

For more admissions information and application deadlines please visit the Office of Graduate Studies website.

At the same time, each applicant should submit the following supplemental application:

- the three letters of recommendation;
- the applicant's written statement of purposes and goals; and
- the example of the applicant's best written work.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree
Units required for the MA: 30

Minimum Cumulative GPA: 3.0 with no grade below a "C" (not a "C-.").

Advancement to Candidacy
Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed STAT 1 or its approved equivalent, a prerequisite to the program (does not count towards the degree) which must be taken before POLS 200;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA;
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within
the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver; and
  • submitted a thesis prospectus (if the student elects to do a thesis).

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a Political Science Department advisor. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 200</td>
<td>Method and Scope in Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POLS 201</td>
<td>Writing in Political Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one course in Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>POLS 219</td>
<td>Specialized Studies in Political Theory</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one course in International Relations or Comparative Government:</td>
<td></td>
</tr>
<tr>
<td>POLS 230</td>
<td>Theories of International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POLS 240</td>
<td>Comparative Government and Politics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one course in California Government and its Political Environment:</td>
<td></td>
</tr>
<tr>
<td>POLS 250</td>
<td>Basic Issues of American Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS 270</td>
<td>Political Behavior and Political Processes: California and Beyond</td>
<td>3</td>
</tr>
<tr>
<td>POLS 280</td>
<td>California Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 281</td>
<td>Comparative State Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one additional course in one of the three subfields</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one concentration among the following three fields:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Political Theory</td>
<td></td>
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<tr>
<td></td>
<td>California and its Political Environment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>International Relations/Comparative Government</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Culminating Requirement (3 Units)</td>
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</tr>
<tr>
<td>POLS 500</td>
<td>Culminating Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 30

1 Three additional courses which may be completed from graduate seminars in the Department, from 200-level courses in related fields (6 units allowed with graduate coordinator’s prior approval), from POLS 295 (3 units allowed), and/or from POLS 299 (6 units allowed). However, a maximum of 6 units of POLS 295 and/or POLS 299 may be applied to the MA. Of these twelve units, up to 6 units may be in 100-level courses within the Political Science Department, chosen from a pre-approved list compiled by the graduate coordinator. Up to six units of coursework from the graduate fellows programs (Assembly Fellow, Executive Fellow or Senate Associates Program) can be counted towards the degree.

2 By the time of Advancement to Candidacy, students must enroll in POLS 500 and choose either of the following options:
  • Plan A: Masters Thesis
  • Plan B: Comprehensive Exam (Students will take one exam in their area of emphasis and demonstrate a general comprehensive in that area)

Note: Students are not permitted to enroll in the culminating experience until they have Advanced to Candidacy, obtained a sponsor for their thesis, and received the approval of the Graduate Coordinator.

Concentration in California and its Political Environment

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 250</td>
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</tr>
<tr>
<td>POLS 281</td>
<td>Comparative State Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS/PPA 284</td>
<td>Urban Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Students emphasizing in California and its Political Environment must take POLS 270 and POLS 280 as well as one other course. It is recommended you take four courses.

MA in Political Science (International Relations/Comparative Government)

Total units required for MA: 30

Program Description

The Master of Arts program in Political Science is designed to orient the student toward critical investigation of problems in government and politics, and to improve the student’s ability for independent study. This program is of special value to teachers of government in the public schools, to persons who contemplate public service or politics as a career, and to persons planning additional graduate study leading to the doctorate. The Political Science Department Graduate Coordinator acts as advisor to graduate students and should be consulted early in each student’s program of graduate study.

Note: Because most graduate students work during the day, graduate courses are offered in the evening hours.

Admission Requirements

Admission as a classified graduate student in Political Science requires:
  • a baccalaureate degree;
  • a minimum 3.0 GPA in the last 60 units attempted and 3.0 GPA in the major;
  • a satisfactory score on the aptitude portion of the Graduate Record Examination (the Department expects the student to achieve at least the 50th percentile in the combined verbal/analytic score);
three letters of recommendation from individuals who can evaluate the applicant's potential for successful graduate study;
• a written statement explaining the applicant's purposes and goals in pursuing a master's degree in Political Science; and
• an example of written work which the applicant considers evidence of his/her best scholarship regardless of the grade received.

Applicants who have deficiencies in Admission Requirements that can be removed by specified additional preparation may be admitted to the degree program with conditionally classified graduate status. Students with an undergraduate major in any subject may be accepted; no minimum number of units in Government/Political Science is required. However, if a student's preparation in the field of government or political science is not adequate preparation for graduate study, he/she may be asked to complete some additional coursework before becoming classified. Any deficiencies will be noted on a written response to the student's admission application. No upper division prerequisite courses required as a condition of classification can be counted towards the degree requirement.

Admission Procedures
Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6740:

• an online application for admission;
• one set of official transcripts from all colleges and universities attended, other than Sacramento State; and
• Graduate Record Examination scores, aptitude portion only.

For more admissions information and application deadlines please visit the Office of Graduate Studies website.

At the same time, each applicant should submit the following supplemental application:

• the three letters of recommendation;
• the applicant's written statement of purposes and goals; and
• the example of the applicant's best written work.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree
Units required for the MA: 30

Minimum Cumulative GPA GPA: 3.0 with no grade below a "C" (not a "C-").

Advancement to Candidacy
Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

• removed any deficiencies in admission requirements;
• completed STAT 1 or its approved equivalent, a prerequisite to the program (does not count towards the degree) which must be taken before POLS 200;
• completed at least 12 units in the graduate program with a minimum 3.0 GPA;
• take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.
• submitted a thesis prospectus (if the student elects to do a thesis).

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a Political Science Department advisor. The completed form is then returned to the Office of Graduate Studies for approval.

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<td>Political Theory</td>
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<td>Comparative State Government</td>
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<td>Select one additional course in one of the three subfields</td>
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<td></td>
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<td>Other Course Requirements (9 Units)</td>
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<td></td>
</tr>
<tr>
<td>Select one concentration among the following three fields:</td>
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<td></td>
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<tr>
<td>POLS 500</td>
<td>Culminating Experience</td>
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Total Units 30

1 Three additional courses which may be completed from graduate seminars in the Department, from 200-level courses in related fields (6 units allowed with graduate coordinator's prior approval), from POLS 295 (3 units allowed), and/or from POLS 299 (6 units allowed). However, a maximum of 6 units of POLS 295 and/or POLS 299 may be applied to the MA.

Of these twelve units, up to 6 units may be in 100-level courses within the Political Science Department, chosen from a pre-approved list compiled by the graduate coordinator. Up to six units of coursework from the graduate fellows programs (Assembly Fellow, Executive Fellow or Senate Associates Program) can be counted towards the degree.
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Admission Requirements

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Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA GPA: 3.0 with no grade below a "C" (not a "C-").

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed STAT 1 or its approved equivalent, a prerequisite to the program (does not count towards the degree) which must be taken before POLS 200;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA;
• take Graduate Writing Intensive (GWI) course in their discipline within
  the first two semesters of coursework at California State University,
  Sacramento.
• submitted a thesis prospectus (if the student elects to do a thesis).

Advancement to Candidacy forms are available on the Office of Graduate
Studies website. The student fills out the form after planning a degree
program in consultation with a Political Science Department advisor. The
completed form is then returned to the Office of Graduate Studies for
approval.

Program Requirements

Required Courses (18 Units)

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<th>Units</th>
</tr>
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<tbody>
<tr>
<td>POLS 200</td>
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<td>POLS 201</td>
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</table>

Select one course in Political Theory:

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 210</td>
<td>Political Theory</td>
<td></td>
</tr>
<tr>
<td>POLS 219</td>
<td>Specialized Studies in Political Theory</td>
<td></td>
</tr>
</tbody>
</table>

Select one course in International Relations or Comparative
Government:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 230</td>
<td>Theories of International Relations</td>
<td></td>
</tr>
<tr>
<td>POLS 240</td>
<td>Comparative Government and Politics</td>
<td></td>
</tr>
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</table>

Select one course in California Government and its Political
Environment:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>POLS 250</td>
<td>Basic Issues of American Government</td>
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<td>POLS 270</td>
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<td></td>
</tr>
<tr>
<td>POLS 281</td>
<td>Comparative State Government</td>
<td></td>
</tr>
</tbody>
</table>

Select one additional course in one of the three subfields: 3

Other Course Requirements (9 Units) 1

Select one concentration among the following three fields: 9

- Political Theory
- California and its Political Environment
- International Relations/Comparative Government

Culminating Requirement (3 Units)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 500</td>
<td>Culminating Experience</td>
<td>3</td>
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</tbody>
</table>

Total Units 30

1 Three additional courses which may be completed from graduate
seminars in the Department, from 200-level courses in related fields
(6 units allowed with graduate coordinator’s prior approval), from
POLS 295 (3 units allowed), and/or from POLS 299 (6 units allowed).
However, a maximum of 6 units of POLS 295 and/or POLS 299 may be
applied to the MA.

Of these twelve units, up to 6 units may be in 100-level courses within
the Political Science Department, chosen from a pre-approved list
compiled by the graduate coordinator. Up to six units of coursework
from the graduate fellows programs (Assembly Fellow, Executive
Fellow or Senate Associates Program) can be counted towards the
degree.

2 By the time of Advancement to Candidacy, students must enroll in
POLS 500 and choose either of the following options:

• Plan A: Masters Thesis
• Plan B: Comprehensive Exam (Students will take one exam in their area of
  emphasis and demonstrate a general comprehensive in that area)

Note: Students are not permitted to enroll in the culminating
experience until they have Advanced to Candidacy, obtained a
sponsor for their thesis, and received the approval of the Graduate
Coordinator.

Note: Upper division undergraduate courses (100-level courses) which
may be used towards the MA program must be individually approved by
the Graduate Coordinator and will involve an additional work component
over-and-above what is required for undergraduate students. A list of
approved 100-level courses will be available semester-by-semester.

Concentration in Political Theory 1

<table>
<thead>
<tr>
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<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>POLS 210</td>
<td>Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>POLS 213</td>
<td>Special Topics in American Political Thought</td>
<td>3</td>
</tr>
<tr>
<td>POLS 218</td>
<td>Special Topics in International Political Thought</td>
<td>3</td>
</tr>
<tr>
<td>POLS 219</td>
<td>Specialized Studies in Political Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Students emphasizing Political Theory must take three of the four
listed courses in political theory. It is recommended you take four
courses.

Minor in Political Science

Units required for Minor: 21, 15 of which must be in upper division

Program Description

Government, or Political Science, is devoted to study of the theory and
practice of government and politics. The Political Science Department
at Sacramento State offers courses in several fields of study, including:
Political Theory; American Politics; Public Law; International Relations;
Comparative Politics; and Public Policy. Over 70 courses cover all the
major aspects of political science. Lower division courses satisfy General
Education requirements and help to prepare students for advanced work.

Minimum Grade Requirement

A “C” average is required in the Minor.

Program Requirements

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 110</td>
<td>Political Thought I</td>
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<td>POLS 111</td>
<td>Political Thought II</td>
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<tr>
<td>POLS 120A</td>
<td>Constitutional Law</td>
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<tr>
<td>POLS 120B</td>
<td>Constitutional Rights and Liberties</td>
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<tr>
<td>POLS 130</td>
<td>International Politics</td>
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</tr>
<tr>
<td>POLS 170</td>
<td>Public Policy Development</td>
<td></td>
</tr>
</tbody>
</table>

Select 15 units of political science courses 1

Total Units 15
No more than six units may be lower division. Students may count as many as (6) units of a POLS 195, or (3) units of a POLS 195 and (3) units of POLS 199 toward completion of the minor.

POLS 1 (or its equivalent) or POLS 150 may count as the prerequisite for the minor; however, if POLS 150 is used as the prerequisite, it will not count toward the 15 units of upper division government courses required. POLS 150 cannot count as an elective for the minor.

Note: Students are permitted to repeat upper division courses a maximum of two times.

Psychology
College of Social Sciences and Interdisciplinary Studies

Program Description
Psychology is the scientific study of human and animal behavior, cognition, and emotion. It is a broad discipline that includes both basic research and the application of research findings to everyday life. The Sacramento State Psychology Department offers an undergraduate major and minor in Psychology and an undergraduate certificate in Applied Behavior Analysis. In addition, there are graduate programs in Applied Behavior Analysis, Industrial-Organizational Psychology, and General Psychology, which includes a broad representation of psychology research areas and interests. At both the undergraduate and graduate levels, students may choose coursework, fieldwork, and research experiences that allow them to emphasize such areas as Applied Behavior Analysis, Clinical Psychology, Cognitive Psychology, Community Psychology, Cultural Psychology, Developmental Psychology, Industrial-Organizational Psychology, Neuroscience, Personality, and Social Psychology.

The Psychology program at Sacramento State is highly sought after and the undergraduate major is now officially impacted. Students wishing to become Psychology majors must meet eligibility requirements before applying for admission to the program. It is highly recommended that interested students speak with a Psychology advisor as soon as possible.

Degree Programs
Certificate in Behavior Analysis (p. 1071)

Minor in Psychology (p. 1076)

BA in Psychology (p. 1069)

MA in Psychology (General Psychology) (p. 1073)

MA in Psychology (Industrial-Organizational Psychology) (p. 1074)

MS in Applied Behavior Analysis (p. 1076)

Special Features
- The Psychology Department is housed in Amador Hall and contains extensive human and animal research facilities.
- The Psychological Services Center provides excellent learning opportunities for students in Applied Behavior Analysis. The six-room suite is equipped for audio and video recording of research sessions and a kitchenette for studies with children diagnosed with feeding difficulties.
- Available facilities support operant and neuroscience research with animals, including a rodent colony as well as equipment for behavioral procedures, histological techniques, and neurophysiological recordings.
- Computer labs are available for data collection, analysis, and teaching.
- The Psychology Department maintains close ties with the Sacramento community. Each year students conduct research projects or fieldwork in various community organizations and state agencies.
- Students are able to take independent study courses in Applied Behavior Analysis, Clinical Psychology, Cognitive Psychology, Cultural Psychology, Developmental Psychology, Industrial-Organizational Psychology, Neuroscience, Perception, and Social Psychology.
- The Prospects Peer Mentoring and Advising Program allows students to give and receive information and support regarding academic and career planning.
- Our Annual Psychology Department Research Conference showcases student and faculty research projects for the campus community, providing professional development opportunities for students.
- Several student organizations are involved in extracurricular activities: Psi Chi, Psychology Society, and the Student Association for Applied Behavior Analysis.

Career Possibilities
Individuals with a Bachelor of Arts
Administrative Service Manager · Admissions Counselor · Behavior Specialist · Community Service Manager · Employee Assistance Program Associate · Health Educator · Human Factors Specialist · Management Analyst · Market Research Analyst · Mental Health Worker · Public Relations Specialist · Sales Manager · Sales Representative · Victim Advocate.

Individuals with a Master of Arts
Autism Specialist · Behavior Analyst · Behavioral Consultant · Case Manager · Career Counselor · Community College Instructor · Human Resource Specialist · Mental Health Counselor · Personnel Analyst · Private Sector Consultant · Program Director · Psychometric Specialist · Personnel Selection Consultant · Research Analyst · Research Program Manager · Research Technician · School Consultant · Test Validation Specialist · Training and Development Specialist

Contact Information
Rebecca Cameron, Department Chair
Pat Hughes, Administrative Support Coordinator
Amador Hall 350
(916) 278-6254
www.csus.edu/psyc (http://www.csus.edu/psyc/)

Faculty
ACEVES-AZUARA, ITZEL
AKUTSU, PHILLIP D.
AUGUST, RACHEL A.
BOHON, LISA
BRAND, DENYS
CALTON, JEFFREY L.
PSYC 2. Introductory Psychology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Provides a general overview of theory and research concerning psychological processes at the basic, individual and social levels. Topics will include physiological psychology, comparative psychology, learning, motivation, sensation and perception, developmental psychology, personality, social psychology, maladaptive behavior, individual differences, and selected other topics. Requires three hours of participation as a research subject.

PSYC 4. Navigating Psychology: The Major and Careers. 1 Unit
Prerequisite(s): PSYC 2 and Psychology majors only.
Term Typically Offered: Fall, Spring
Covers requirements for the major and career options in psychology and related fields. Students learn to design plans of study to meet requirements for the major and enhance career objectives. Introduces career options in various areas such as academic psychology, applied behavior analysis, counseling and mental health, education, industrial-organizational psychology and related fields. Class activities clarify students’ career goals and develop skills for job seeking and graduate education. Requires participation as a research subject.
Credit/No Credit

PSYC 8. Methods of Psychology. 3 Units
Corequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring
Introduction to methods of the science of psychology. The topics include psychology as a way of knowing, the role of science in psychology, the nature of psychological research, research ethics, psychological literature and report writing, psychological measurement, and the design and analysis of case studies, survey research, field studies, correlational methods, and experimental methods. Requires three hours of participation as an experimental subject.

PSYC 9. Introductory Statistics for Psychology. 3 Units
Prerequisite(s): PSYC 2, may be taken concurrently.
Term Typically Offered: Fall, Spring
Introduction to descriptive and inferential statistics as tools for evaluating data from Psychological research. Topics include: measures of central tendency, measures of variability, correlation and regression, sampling distributions, hypothesis testing procedures including t-tests and analysis of variance. Application of hand computation will be emphasized to include the interpretation and significance of the statistical findings.

PSYC 100. Cross-Cultural Psychology. 3 Units
Prerequisite(s): PSYC 2, PSYC majors only.
Corequisite(s): PSYC 8.
Term Typically Offered: Fall, Spring
Examination of similarities and differences in human behavior, cognition, and emotion across cultures. Empirical evidence from cross-cultural research in the various areas of psychology, including biological, clinical, cognitive, developmental, social, personality, and industrial/organizational psychology, is evaluated with the purpose of developing a global perspective on the psychological processes underlying human behavior, cognition, and emotion.

PSYC 101. Statistics for Psychology. 3 Units
Prerequisite(s): Passing score on ELM; PSYC 2, PSYC 4, PSYC 8. PSYC majors only. PSYC 4 may be taken concurrently.
Term Typically Offered: Fall, Spring
Introduction to descriptive and inferential statistics as tools for evaluating data from Psychological research. Topics include: measures of central tendency, measures of variability, correlation and regression, sampling distributions, hypothesis testing procedures including t-tests and analysis of variance, and selected other topics. Application of hand computation will be emphasized to include the interpretation and significance of the statistical findings.
Plan and conduct projects using experimental, quasi-experimental and correlational methods. Evaluate published research and write proposals with attention to such issues as the reliability and validity of methods, the degree to which statistical assumptions are met, the adequacy of statistical power, and the internal and external validity of the project. Contemporary research design, measurement, and analysis techniques are examined, including the use of statistical software, for varieties of univariate and multivariate research designs. Lecture-discussion three hours; laboratory three hours.

**PSYC 103. Perception.** 3 Units

**Prerequisite(s):** PSYC 2, PSYC or CRJ majors only. PSYC 8 and PSYC 9 are recommended.

**Term Typically Offered:** Fall, Spring

Examination of how information about the outside world is sensed and how that information is organized and interpreted to form perceptions. Vision and audition will be primarily examined, along with some coverage of the other senses. Topics may include psychophysical methods, basic physiology and function of sensory systems, perception of color and form, motion, distance, auditory patterns, body and limb position, temperature, pain, perceptual constancies, attention, perceptual learning, adaptation, and perceptual development.

**PSYC 104. Learning Theories.** 3 Units

**Prerequisite(s):** PSYC 2, PSYC 8, PSYC 9, and PSYC majors only or instructor permission.

**Term Typically Offered:** Fall, Spring

Examination of classical and contemporary theories of learning, and a sampling of experimental findings which bear directly on the theories. Some attention is given to theory construction in psychology.

**PSYC 105. Motivation.** 3 Units

**Prerequisite(s):** PSYC 2; PSYC majors only or instructor permission.

**Term Typically Offered:** Fall, Spring

Study of theories and experimental findings related to basic processes in animal and human motivation.

**PSYC 106. Controversial Issues in Psychology.** 3 Units

**Prerequisite(s):** PSYC 121; Psychology majors only

**Term Typically Offered:** Fall, Spring

Consideration of unresolved issues of interest to psychology and the general public, such as the use of animals in research and mind and health. Emphasis is on critical analysis (but not solution) of the issues as they are presented in public discourse. Discussion format, written reports and evaluations.

**PSYC 107. Organizational Psychology.** 3 Units

**Term Typically Offered:** Fall, Spring

This course will provide an overview of the dynamics of human behavior in organizations, using the lens of psychological theory. Students will explore individual-, group-, and systems-level phenomena in organizations, with the overriding goal of understanding how to maximize performance, well-being, and satisfaction at work. Topics may include job attitudes, teams, organizational culture, individual differences, leadership, employee development, organizational change, occupational stress, fairness and diversity, and more.

Examination of the basic concepts of cognitive psychology, including sensory storage, pattern recognition, attention, short-term memory, long-term memory, visual imagery, semantic memory structure, text processing, problem solving and decision-making. The relations among artificial intelligence, mental modeling, and the simulation of cognitive processes will also be explored.

**PSYC 115. Introduction to Neuroscience.** 4 Units

**Prerequisite(s):** PSYC 2 and PSYC 8 or PSYC or BIO majors only. PSYC 9 recommended.

**Term Typically Offered:** Spring only

Introduction to the structure and function of the nervous system including neuroanatomy, neurophysiology, and systems neuroscience. Lectures and readings emphasize the empirical questions, techniques and methods used in neuroscience research. Laboratory activities focus on nervous system structure and some of the specialized techniques used within the fields of cellular, systems, and behavioral neuroscience. Lecture-discussion three hours; laboratory three hours.

Cross Listed: BIO 115; only one may be counted for credit.

**PSYC 116. Animal Behavior.** 3 Units

**Prerequisite(s):** PSYC 2; PSYC majors only or instructor permission.

**Term Typically Offered:** Fall, Spring

Basic principles of animal behavior including the genetic, evolutionary and ecological mechanisms underlying courtship, reproduction, aggression, territoriality, communication and parental behavior; applied aspects of animal behavior; innate or naturally occurring behavior patterns necessary for survival in the natural environment; physiological, social and acquired aspects of animal and, secondarily, human behavior.

**PSYC 117. Drugs and Behavior.** 3 Units

**Prerequisite(s):** PSYC majors only or instructor permission.

**Term Typically Offered:** Fall, Spring

Examination of the classification of psychoactive drugs and their mode of action. Covers effects of psychoactive drugs on central nervous system structure and function and on behavior; use, abuse, effects, and dangers of therapeautic and recreational drugs; motivational aspects of drug use, and methods for treating addiction.

**PSYC 118. Cognitive Neuroscience.** 3 Units

**Prerequisite(s):** PSYC 111 or PSYC 115 or PSYC 117 or BIO 132

**Term Typically Offered:** Fall, Spring

Examines how the nervous system accomplishes cognitive functioning. Brain mechanisms of higher functions such as memory, attention, sensorimotor integration, decision making, and language will be covered.
PSYC 119. Human Factors Psychology. 3 Units
**Prerequisite(s):** PSYC 2
**Term Typically Offered:** Fall, Spring

Study of the scientific application of psychology and human performance to the design of products and complex systems. Applications of perception, cognition, and human physical limitations are covered, with an emphasis on understanding how they relate to design. Topics include perception, attention, decision making, memory, action, and how they related to areas such as product design, human-machine interaction, health and medicine, aviation and aerospace, ergonomics of the workplace, and designing for special populations.

PSYC 120. Psychological Testing and Measurement. 3 Units
**Prerequisite(s):** PSYC 8; PSYC 9; PSYC majors only.
**Term Typically Offered:** Fall, Spring

Overview of the history and applications of psychological tests and assessments, including measures of mental abilities, personality, interests, and attitudes. Principles of measurement including construction of tests and assessments, alternative formats, methods for administration and scoring, analyzing items and the reliability of scores, and evaluating evidence regarding the validity of score interpretations.

PSYC 121. Methods and Statistics in Psychological Research. 3 Units
**Prerequisite(s):** PSYC 4 (may be taken concurrently), PSYC 8, and PSYC 9; PSYC majors only.
**Term Typically Offered:** Fall, Spring

Project-based experience of Psychology. Study of scientific processes in research such as literature reviews; developing testable hypotheses; design; IRB review; data collection, analysis, and interpretation; critical analysis of studies; APA paper preparation; and issues in dissemination. Study of some advanced statistical processes such as factorial ANOVAs, planned and post hoc comparisons, and multiple regression. Study of statistical software programs used in the analysis of data.

PSYC 122. Qualitative Research in Psychology. 3 Units
**Prerequisite(s):** PSYC 121 and PSYC majors only.
**Term Typically Offered:** Fall, Spring

Examines the philosophy underpinning the use of qualitative research and the methods and analyses strategies used in qualitative research. Methods may include interviews, focus groups, participant observation, and behavioral observation. Analyses strategies may include grounded theorizing, negative case analyses, developing case studies, and content coding. Issues pertaining to data accuracy and consistency will be examined, and the researcher’s role in interpreting results. Students will complete research projects involving the collection and/or analyses of qualitative data.

PSYC 123. Program Evaluation. 3 Units
**Prerequisite(s):** PSYC 8, PSYC 9, PSYC 100; psych majors only
**Term Typically Offered:** Fall, Spring, Summer

This course develops knowledge and skills in empirical research methods as applied to program evaluation. Students gain and practice skills needed to assist community service providers, state agencies, and other organizations to evaluate and improve programs and interventions. Students design program evaluation proposals that utilize psychological research techniques to support organizational effectiveness. Students learn to tailor program evaluations to the mission of an organization or purpose of an intervention, such as the promotion of social justice, well-being, and/or other goals.
PSYC 142. Community Psychology. 3 Units
Prerequisite(s): PSYC 121 and PSYC majors only.
Term Typically Offered: Fall, Spring

This course is designed to introduce you to the field of community psychology, which is concerned with the scientific study of social problems through collaborative research. This course will provide you with ecological frameworks that aim to reduce social problems (e.g., poverty, mental illness and others) as well as core values of community well-being, empowerment, and collaboration. You will be exposed to prevention and intervention programs employed to solve social concerns as well as potential implications for practice and policy.

PSYC 143. Practicum in Community Psychology. 3 Units
Prerequisite(s): Junior or Senior standing, Psychology majors and/or Peace Corps Prep certificate only, and instructor permission obtained through approval of an application the semester prior.
Term Typically Offered: Fall, Spring

Classroom and on-site experience in community psychology. Students will complete 60 hours of service learning experience related to their community organization with supervision by authorized persons at the organization. Students will also attend class meetings to discuss the application of concepts in community psychology to their service learning experience. Topics include: ethics, structure and capacity of community organizations, working with diverse populations, and professional relationships.

Note: Enrolling in or completing PSYC 142 is preferred, but not required, and Seniors will be prioritized for enrollment before Juniors.

PSYC 145. Social Psychology. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Empirical examination of the emotion, behavior, and cognition of individuals in social situations. Topics can include: social psychology methods, social perception, social cognition, attitudes, persuasion, social identity, gender identity, prejudice and discrimination, interpersonal attraction, close relationships, conformity, compliance, obedience to authority, helping behavior, aggression, group processes, and social psychology applications. Multiple perspectives discussed.

PSYC 148. Child Psychology. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Examination of behavioral and physiological development during the prenatal period, and behavioral, cognitive and social development during infancy and childhood. Theories, methods and empirical research will be studied.

PSYC 149. Psychology of Adolescence. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Growth and development during the adolescent period and the interrelationships between adolescents and their culture are studied. Physical, psychological, social and educational problems and their implications are considered.

PSYC 150. Psychological Aspects of Aging. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Developmental study of human aging emphasizing psychosocial, psychopathological, biological, intellectual and personality processes from a theoretical and research-oriented perspective. Influences including culture, gender, gender identity, race, ethnicity, sexual orientation, and socio-economic status on aging are examined.

PSYC 151. Psychological Aspects of Death and Dying. 3 Units
Prerequisite(s): Student’s academic level must be Junior or higher to enroll in this class.
Term Typically Offered: Fall, Spring

Examination of the beliefs, attitudes, and behaviors associated with death and dying. Topics covered include children’s and adults’ concepts of dying and death; causes and types of death; self-destructive behavior; grief and mourning in the dying person and their survivors; physician aid in dying and other legal and ethical issues; and cross-cultural and historical perspectives on death.

Cross listed: GERO 124

PSYC 152. Psychological Aspects of Health, Wellness, and Illness. 3 Units
Prerequisite(s): PSYC 2 and PSYC 8.
Term Typically Offered: Fall, Spring

Examines social, psychological, and behavioral factors important for physical health and emotional well-being. Psychological perspectives are applied to such topics as behavioral medicine, health promotion and compromise, the stress-illness relationship, social relations, personality, emotions, chronic illness, death and dying, and health care provider and patient interactions. Explores the development of health problems and the causes of premature death, as well as research on how psychology can help people live longer, healthier lives.

PSYC 153. Political Psychology. 3 Units
Term Typically Offered: Fall, Spring

Examines the ways in which political behavior is shaped by individual beliefs, personalities, cognitive patterns, biases, and other psychological mechanisms. Students will engage with a wide range of research on topics such as cognitive styles, personality, obedience, psychological roots of terrorism, the psychology of ideology, and the role of emotion in politics.

Cross Listed: GOVT 152

PSYC 157. Psychology of Women. 3 Units
Prerequisite(s): PSYC 2 or instructor permission.
Term Typically Offered: Fall, Spring

Contemporary psychological theories and issues related to the psychology of women in America and globally. Psychological theories may include but are not limited to feminism, cognitive-behavioral, self-object relations, humanistic, social learning and existential. Issues may include development, sexuality, mental health, psychotherapy, physical health, education, work, violence against women, gender inequality, multicultural perspectives, aging, parenting, criminal behavior, politics, sexual slavery, reproductive rights, religion, spirituality, and the arts.

Note: A service course for WOMS.
PSYC 160. Psychology of Sexual Orientation and Gender Identity. 3 Units
Prerequisite(s): PSYC 2. Psychology major, Psychology minor, LGBTQ Studies minor, or Peace Corps Prep Certificate
Term Typically Offered: Fall, Spring
This course explores the landscape of contemporary psychological research on gender and sexual diversity with a focus on the identities and experiences of lesbian, gay, bisexual, transgender, queer, intersex, and asexual people and all sexual and gender minorities. Course topics include cissexism and heterosexism, identity development and disclosure, parenting, aging, intersectionality, and minority stress, among others.

PSYC 165. Evolutionary Psychology. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only
Examination of empirical literature on emotion, behavior, and cognition of individuals from an evolutionary perspective. Topics can include: scientific methods in evolutionary psychology, survival strategies, mating strategies, parenting, kinship, cooperation, altruism, aggression, sexual conflict, and social dominance.

PSYC 166. Psychology in Personnel Training and Development. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring
Application of psychological principles to problems of personnel training and development; techniques for determining training requirements, motivating trainees, providing feedback on trainee performance, and ensuring positive transfer of training to the job situation; personnel development programs.

PSYC 167. Abnormal Psychology. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring
Detailed consideration of behavior disorders and maladaptive behavior: theories of causation, descriptions of the disorders, and strategies of various therapies.

PSYC 168. Industrial Psychology. 3 Units
Prerequisite(s): PSYC 2, PSYC 8.
Term Typically Offered: Fall, Spring
Comprehensive overview of various human resources practices and policies, with an emphasis on people's psychological reactions to them. Topics include: recruitment, employee selection, training, employee compensation, legal aspects of employment decisions, and ethics in human resource management.

PSYC 169. Applied Behavior Analysis. 3 Units
Prerequisite(s): PSYC 2 and PSYC majors or posted Behavior Analysis Certificate only, or instructor permission.
Term Typically Offered: Fall, Spring, Summer
Introduction to theory, historical background, and philosophical assumptions relevant to behavior analysis with individuals. Lectures and laboratory activities in basic principles of behavior and methodology.

PSYC 170. Behavioral Analysis. 3 Units
Prerequisite(s): PSYC 2, PSYC 8, or posted Behavior Analysis Certificate only, or instructor permission.
Term Typically Offered: Fall, Spring
Introduction to the theoretical and practical foundations of behavior analysis, focusing on the assessment, management, and evaluation of behavior. Topics include: clinical populations, behavior management, and ethical considerations.

PSYC 171. Clinical Issues in Applied Behavior Analysis. 3 Units
Prerequisite(s): PSYC 2 and PSYC majors or posted Behavior Analysis Certificate only, or instructor permission.
Term Typically Offered: Fall, Spring, Summer
Examination of complex clinical issues in applied behavior analysis, including assessment, intervention, and ethical considerations in diverse populations and settings.

PSYC 172. Special Topics Capstone: Advanced Study in Psychology. 3 Units
Prerequisite(s): PSYC 2, 4, 8, 9, must have Senior status to enroll in course.
Term Typically Offered: Fall, Spring, Summer
Examines a special topic of interest in psychology. Offered by rotating instructors, the capstone explores selected topics in psychology, and contemporary developments in theories, methodologies, and/or methods in the selected sub-discipline or topical area. Topics can include subject matter from all areas of psychology, including, but not limited to: applied behavior analysis, clinical, cognitive, community, cultural, developmental, experimental, feminist, health, industrial-organizational, neuroscience, perception, quantitative, social, etc., as well as related methodologies. Recommend prior coursework in area of focus.

Note: May be repeated for credit providing the topic and instructor are not the same.

PSYC 173. Experimental Analysis of Behavior. 4 Units
Prerequisite(s): PSYC 9, PSYC 171, and PSYC majors only.
Term Typically Offered: Fall only
Extensive analysis of single subject experimental research on intermittent reinforcement of behavior, including complex schedules, stimulus control, generalization, and verbal behavior. Lecture-discussion three hours; laboratory three hours; laboratory may include a component of self paced instruction.

PSYC 174. Teaching of Psychology. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring
Study of best practices in the Teaching of Psychology. Selected topics may include, course preparation, skills for fostering student learning, strategies for improving student writing, theories of assessment, using technology in the classroom, sensitivity to diversity, teaching special populations, and the ethical and legal issues faced in the classroom. Students attend scheduled seminars on course topics and course are mentored by a professor in the Department of Psychology (called Faculty Mentor/Sponsor). Credit/No Credit

PSYC 175. Clinical Issues in Applied Behavior Analysis. 4 Units
Prerequisite(s): PSYC 2 and PSYC 171, and PSYC majors or ABA Certificate students only
Term Typically Offered: Spring only
Extensive study of applied behavior analytic methods in the assessment, development, and implementation of treatment programs for a variety of clinical issues including pediatric behavior problems, developmental disabilities, hyperactivity, parent-child difficulties, school-related problems, behavioral safety, brain injury, and dementia. Lecture three hours; laboratory three hours.

PSYC 176. Psychology of Exceptional Children. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring
Examines characteristics, special needs, and problems of children who differ from the group norm because of their level of abilities, physical handicaps, or other deviations.
PSYC 190. History and Systems of Psychology.  3 Units
Prerequisite(s): PSYC 9 and PSYC majors only.
Term Typically Offered: Fall, Spring

Covers the development of the various schools and systems of psychology, and their philosophical roots, interrelationships and differences. Normally taught with a seminar or proseminar format.

PSYC 191. Ethics in Behavior Analysis.  3 Units
Prerequisite(s): PSYC 171
Term Typically Offered: Fall, Spring

Classroom experience in applied behavior analysis. Students will meet in class for three hours a week to present and review relevant literature. Emphasis will be placed on ethics and professional conduct in applied behavior analysis following the BACB Professional and Ethical Compliance Code for Behavior Analysts.

PSYC 194. Cooperative Research.  1 - 6 Units
Prerequisite(s): PSYC 2, PSYC 8, and PSYC 9. PSYC 121 recommended.
Term Typically Offered: Fall, Spring

Opportunity for dedicated students interested in graduate school or a career involving research to work cooperatively on a psychological research project under faculty supervision.
Note: May be repeated once for up to 6 units of credit.

PSYC 195A. Fieldwork in the Teaching of Psychology.  1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised experience in various educational and instructionally related tasks, such as leading discussion groups, setting up and presenting demonstrations, constructing and scoring tests, and tutoring, at selected educational institutions in the Sacramento area.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 195B. Fieldwork in Child Observation.  3 Units
Prerequisite(s): PSYC 148 or equivalent.
Term Typically Offered: Fall, Spring

Supervised observation of preschool children in a formal school setting.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 195C. Fieldwork in Industrial and Organizational Psychology.  1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised work experience at an appropriate level in business and governmental organizations.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 195F. Fieldwork in Community Psychology.  1 - 4 Units
Term Typically Offered: Fall, Spring

Supervised experience in various community and governmental agencies, such as the Suicide Prevention Service, Planned Parenthood, and the California Youth Authority. The experience must be of an applied psychological nature, determined collectively by the agency, the supervising faculty member, and the student.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit and a third time if another agency is involved.

Credit/No Credit

PSYC 196. Psychology of Religion.  3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Introduction to psychological aspects of religion, including its foundations, measurement, and research methods. Selected topic areas include: religious & spiritual development; religion and spirituality in neuroscience, cognitive psychology, emotion, personality, social psychology, and cross-cultural psychology; religion and spirituality in health, mental health, coping, and psychotherapy.

PSYC 196T. Black Psychology.  3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Examines the concepts, issues and theories related to the psychology of the African American experience. Through the exploration of topics related to the African American experience in the United States, including, but not limited to, African philosophy, the US Census, media representations, language, and political enfranchisement, the course utilizes an interdisciplinary approach to interrogate the cultural, historical, political, and social factors influencing Black identity in the US and the creation of Black Psychology.

PSYC 196U. Psychology of Happiness.  3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Examines the scientific study of human happiness from a psychological perspective that includes its foundations, measurement, research methods, theories, and recent advances in the literature. Explores the correlates, predictors, and consequences of happiness at the individual and cultural levels. Topics include benefits of being happy; the roles of age, gender, culture, genes, personality, life circumstances, income, health, and social relationships in happiness; cultural comparisons in happiness; and happiness interventions (i.e., how to increase and sustain happiness).
PSYC 197A. Advanced Research I. 1 - 4 Units
Prerequisite(s): PSYC 194 and permission of instructor and Department Chair. Graded; 1 - 4 units.
Term Typically Offered: Fall only
Advanced research opportunity for students who have completed previous research experiences in PSYC 194. Students in the course are expected to develop advanced skills in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 197B. Advanced Research II. 1 - 4 Units
Prerequisite(s): PSYC 197A and permission of instructor and Department Chair. Graded; 1 - 4 units.
Term Typically Offered: Fall, Spring
Advanced research opportunity for students who have completed previous research experiences in PSYC 197A. Students in the course are expected to demonstrate competence in advanced research skills in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 198A. Prospects for Success: Peer Mentee. 1 Unit
Term Typically Offered: Fall, Spring
Provide psychology majors with information and experiences necessary for developing academic goals, skills, and better understanding of the Psychology major. Weekly meetings with peer mentors to discuss topics that include academic planning, website navigation, preparation for meeting with professors, academic skills, student professionalism and resume/CV development.
Note: May be repeated for credit

PSYC 198B. Prospects for Success: Peer Mentor. 2 - 3 Units
Prerequisite(s): PSYC 4 and permission from instructor
Term Typically Offered: Fall, Spring
Provide peer mentoring and advising to Psychology majors. Develop peer mentoring knowledge and skills through training and assigned readings. Peer mentors provide psychology majors with information and experiences necessary for developing academic goals, skills, and a better understanding of the Psychology major. Conduct weekly mentee meetings to discuss topics that include academic planning, website navigation, preparations for meetings with professors, academic skills, student professionalism and resume/CV development.

PSYC 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading.
Note: Requires permission of instructor and the Department Chair.
Credit/No Credit

PSYC 200. Methods in Empirical Psychology. 3 Units
Prerequisite(s): PSYC 8, PSYC 101, PSYC 102.
General Education Area/Graduation Requirement: Writing Intensive
Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Philosophy of science, critical thinking in the design of research studies, and professional issues. Topics include: nature of science; observational, experimental, and case study designs; formulating research questions; measurement strategies; scaling and coding; internal and external validity; naturalism in research; quasi-experiments; archival research; physical traces; data collection; interpreting results; program evaluation; professional writing; and ethics.

PSYC 202. Survey of Contemporary Statistical Methods in Psychological Research. 3 Units
Prerequisite(s): Graduate standing; PSYC 102 or equivalent
Term Typically Offered: Fall, Spring
Broad coverage of common univariate and multivariate designs and analyses used in contemporary psychological research. Primary focus is on providing the basic tools for carrying out the analyses in statistical software and interpreting the results, as well as understanding results presented in published research reports. Topics include various ANOVA and multiple regression models and applications including related categorical and multivariate alternatives, such as logistic regression analysis, discriminant function analysis, MANOVA, path analysis, factor analysis, canonical correlation analysis.

PSYC 204. Advanced Topics in Statistical Methods for Psychological Research. 3 Units
Prerequisite(s): PSYC 202
Term Typically Offered: Fall, Spring
Advanced treatment of selected research design and analysis methods of psychological research. Applications of the general and generalized linear models (e.g., multiple regression models, structural equation models, multilevel models, and limited dependent variable models) for a variety of research designs and data structures. Intermediate to advanced training in statistical software and data management. Focus is on understanding foundations and assumptions of the methods, understanding interrelationships between the methods, performing specialized and non-routine analyses when needed, and interpreting results in detail.

PSYC 205. Measurement Methods for Psychological Research and Practice. 3 Units
Prerequisite(s): PSYC 202
Term Typically Offered: Fall, Spring
Detailed coverage of classical and modern theories and models of psychological measurement, and their applications in research and professional testing settings. Primary focus is on principles of constructing and analyzing measures, including both paper-and-pencil tests/surveys and performance-based tests that require rater judgment in scoring. Measurement models include classical testing theory, generalizability theory, confirmatory factor analysis, Rasch measurement, and item response theory.
PSYC 206. Tests and Measurement. 3 Units
Prerequisite(s): Graduate standing and PSYC 102 or its equivalent.
Term Typically Offered: Fall, Spring

Examines the administration, interpretation, and application of psychological tests used by behavioral scientists in clinical, educational, organizational, and other settings. Test development, reliability and validity, and legal considerations will be discussed.

PSYC 209. Seminar in Systems of Psychology. 3 Units
Term Typically Offered: Fall, Spring

Historical review of the systems of thought which led to modern psychology. An examination of current psychological systems and their development. Factors that differentiate psychological systems will be studied.

PSYC 210. Theories of Personality. 3 Units
Prerequisite(s): PSYC 102 or equivalent; PSYC 102 may be taken concurrently.
Term Typically Offered: Fall, Spring

Study of the role of personality theory in the field of psychology, and an examination of the current theories.

PSYC 216. Current Literature in Personnel and Organizational Psychology. 3 Units
Prerequisite(s): Course work in Personnel and Organizational Psychology; PSYC 102 or its equivalent.
Term Typically Offered: Fall, Spring

Analyzes selected current articles on theory and research in such journals as the Journal of Applied Psychology, Personnel Psychology, and Organizational Dynamics, with written and oral critiques.
Note: May be repeated twice for credit.

PSYC 216A. Current Literature and Applications in Industrial-Organizational Psychology. 3 Units
Term Typically Offered: Fall only

Seminar to review current literature in selected organizational psychology topics, and develop proposals for applied research in industrial-organizational psychology. Literature focus will be centered on personal and interpersonal factors influencing the quality of work life and experiences of employees. Application focus will be centered on identifying organizational problems amenable to research, reviewing literature and common practices to identify potential solutions, designing a research methodology to address the problem and evaluate the solution, and writing research proposals including Human Subjects Review.

PSYC 216B. Current Literature and Applications in Industrial-Organizational Psychology. 3 Units
Prerequisite(s): PSYC 216A
Term Typically Offered: Spring only

Seminar to discuss implementation of applied research proposals from the previous semester and review current literature in performance management and workforce planning systems. Application focus will be centered on understanding organizational contexts and constraints for implementing research, obtaining managerial and participant cooperation, maintaining methodological rigor in the field, systematically and objectively recording data, and preparing data for analysis. Literature focus will be centered on methods for measuring employee performance relative to objectives, understanding performance barriers, and identifying human resource needs.

PSYC 217. Seminar in Social Psychology. 3 Units
Prerequisite(s): Graduate standing
Term Typically Offered: Fall, Spring

Review of classic and contemporary theories and research in social psychology. Topics may include group dynamics, social influence, aggression, helping behavior, attitudes, dissonance and self-justification, prejudice, stereotyping, and discrimination; automaticity and social cognition, motivation, and gender. Emphasis upon the application of social psychological theories and research to social problems.

PSYC 240. Seminar in Behavioral Neuroscience. 3 Units
Prerequisite(s): Graduate standing
Term Typically Offered: Fall, Spring

Surveys the fundamental principles of Behavioral Neuroscience, the connection between the brain and behavior. Topics may include: neuroanatomy, electrochemical transmission, sites and mechanism of drug action, sensation and perception, motor systems, developmental processes, neuroendocrine systems, learning and memory, attention, emotion, executive function, neurodegenerative disease and the neurobiology of mental illness. Seminal experiments and recent discoveries within the field will be reviewed and discussed with a focus on how these findings impacted and continue to influence past and current theory.

PSYC 241. Seminar in Cognitive Psychology. 3 Units
Prerequisite(s): Graduate standing
Term Typically Offered: Fall, Spring

Provides a survey of topics in human information processing. Selected topics may include perception, attention, memory, knowledge, categorization, problem solving, reasoning, decision making, and language comprehension and production. Classical theories and experiments in these areas will be reviewed in addition to applications of this work to practical problems.

PSYC 242. Seminar in Learning and Behavior. 3 Units
Prerequisite(s): Graduate standing
Term Typically Offered: Fall, Spring

Surveys the area of Psychology concerned with how people and animals learn and how their behaviors are changed as a result of this learning. Selected topics include: Inmate behaviors, respondent and operant learning, behavioral economics, comparative cognition, theories of imitation, choice and self-control. Classical theories and current experiments in these areas will be reviewed in addition to implications of this work to practical problems.

PSYC 251. Developmental Processes. 3 Units
Prerequisite(s): PSYC 148 or PSYC 149.
Term Typically Offered: Fall, Spring

Study of the psychological processes underlying development throughout the life span. Covers such topics as cognitive, language, emotional, and relationship development in terms of the individual. Attention will be given to functioning of the individual within social units such as the family.
PSYC 262. Theoretical Foundations of Organizational Psychology. 3 Units
Prerequisite(s): PSYC 108 or equivalent.
Term Typically Offered: Fall, Spring

Major theories that made significant theoretical contributions to organizational psychology are covered, along with areas of significant research which have provided the foundations of modern organizational psychology.

PSYC 267. Training & Employee Development. 3 Units
Term Typically Offered: Fall only

This course will provide an overview of the application of psychological principles to employee training and development, and an in-depth review of common training and development practices. Additional topics include techniques for determining training requirements, motivating trainees, providing feedback on trainee performance, ensuring positive transfer of training to the job environment, and employee development programs.

PSYC 268. Advanced Psychopathology. 3 Units
Term Typically Offered: Fall, Spring

Covers an advanced and detailed discussion of the description, etiology, development, dynamics and treatment of individuals with mental disorders. Since the DSM-IV is the major classification system used by mental health professionals, it will also be discussed. This manual describes essential features of a variety of disorders and outlines the basis on which an experienced clinician can differentiate one disorder from another.

Note: May substitute EDC 231.

PSYC 269. Analysis of Work and Employee Selection. 3 Units
Term Typically Offered: Spring only

Survey of work analysis, with emphasis on designing employee selection systems. Topics to include multiple methods for analysis of different types and aspects of work, and applications of the results such as: Explicating the performance construct for a given job; identifying human attributes required for successful performance; evaluating jobs in terms of compensation; selecting appropriate measurement methods for predictor and criterion constructs; evaluating predictor utility; and the legal environment for employee selection practice.

PSYC 271. Advanced Applied Behavior Analysis. 4 Units
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Designed both for graduate students who are interested in gaining knowledge about the fundamental principles of behavioral psychology and those who are pursuing certification as a Board Certified Behavior Analyst. Students will not only learn behavioral theory and the means by which behavior is increased, decreased, shaped and maintained, but they will learn to apply behavioral principles to more complex topics such as concept formation and novel behaviors.

PSYC 272. Research Methods in Behavior Analysis. 3 Units
Prerequisite(s): PSYC 171 or PSYC 181.
Term Typically Offered: Fall, Spring

Covers methods related to single-case research (i.e., data collection, logic, designs). Course content is based primarily on contemporary books and articles from peer-review journals. Topics include: measurement of behavior, methods of assessing inter-rater agreement; experimental design including, reversal designs, changing-criterion designs, alternating treatment designs, and multiple-baseline designs; and displaying and interpreting behavioral data. Current methodological issues will be discussed.

PSYC 274. Theoretical Foundations of Behavior Analysis. 3 Units
Prerequisite(s): PSYC171 or PSYC181 or equivalent.
Term Typically Offered: Fall, Spring

Covers major theories that have made significant contributions to behavior analysis, along with areas of significant research providing the foundations of radical behaviorism and contemporary behavior analysis. Topics include history of behaviorism, selection by consequences as a casual mode, pragmatism, determinism, logical positivism, dualism x monism, verbal behavior and private events.

PSYC 275. Applied Behavior Analysis in the Workplace. 3 Units
Prerequisite(s): Graduate Student Status
Term Typically Offered: Fall only

Overview of contemporary research and practice on the use of applied behavior analysis techniques in the workplace. Students will learn to use several performance assessment and improvement tools based on the operant learning literature, as well as learn strategies for effective supervision, training, and management of staff in human service organizations.

PSYC 277. Special Topics Graduate Seminar in Psychology. 3 Units
Prerequisite(s): Graduate Student Status
Term Typically Offered: Fall, Spring

Examines a special topic of interest in psychology at the graduate level. Offered by rotating instructors, the course explores selected topics in psychology, and contemporary developments in theories, methodologies, and/or methods in the selected sub-discipline or topical area. Topics can include subject matter from all areas of psychology, including, but not limited to: applied behavior analysis, clinical, cognitive, community, cultural, developmental, experimental, feminist, health, industrial-organizational, neuroscience, perception, quantitative, social, etc., or related methodologies. Recommend prior coursework in area of focus.

PSYC 281. Advanced Experimental Analysis of Behavior. 4 Units
Prerequisite(s): PSYC 271.
Term Typically Offered: Fall, Spring

Advanced consideration of small-N research designs. Analysis of complex contingencies of reinforcement and stimulus control as they apply to such topics as perceiving, thinking, abstractions, and concept formation. In-depth examination of behavior analytic principles in relation to choice behavior and verbal behavior.

PSYC 283. Teaching Of Psychology. 3 Units
Term Typically Offered: Fall, Spring

Covers the historical background of higher education, the social and administrative structure of colleges and universities, and the selection, preparation and planning of undergraduate psychology courses, particularly introductory courses.
PSYC 284. Assessment and Treatment of Behavior Problems. 4 Units
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Advanced study and practical experience in application and teaching of behavior analytic methods of assessment, data collection, program construction and evaluation for a variety of behavior problems. Students will become proficient in conducting functional analyses, positive programming, and constructing and implementing behavior intervention programs for behavior excesses (consistent with State of California laws) including, antecedent manipulations, differential reinforcement schedules, functional communication training, and response cost. They will be required to develop didactic skills with respect to these various programs. Lecture three hours; Lab three hours.

PSYC 291. Professional Issues in Behavior Analysis. 3 Units
Prerequisite(s): PSYC 271.
Term Typically Offered: Fall, Spring

Classroom and on-site experience in applied behavior analysis. Students will work at an approved agency for a minimum of 10 hours per week under the supervision of a Board Certified Behavior Analyst. Students will also meet in class to present and review their cases. Emphasis will be placed on treatment integrity and ethics.

Note: Requires permission of instructor. May be repeated for credit.

PSYC 294. Cooperative Research. 1 - 6 Units
Term Typically Offered: Fall, Spring

Students work cooperatively on a psychological research project under faculty supervision.

Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

PSYC 295A. Fieldwork in the Teaching of Psychology. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised experience in various educational and instructionally related tasks, such as leading discussion groups, setting up and presenting demonstrations, constructing and scoring tests, and tutoring, at selected educational institutions in the Sacramento area.

Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

PSYC 295C. Fieldwork in Personnel and Organizational Psychology. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised work experience at a professional level in business and governmental organizations.

Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

PSYC 297A. Advanced Graduate Research I. 1 - 4 Units
Prerequisite(s): PSYC 294
Term Typically Offered: Fall, Spring

Advanced research opportunity for graduate students who have completed previous research experiences in PSYC 294. Students in the course are expected to develop advanced skills in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 297B. Advanced Graduate Research II. 1 - 4 Units
Prerequisite(s): PSYC 297A
Term Typically Offered: Fall, Spring

Advanced research opportunity for graduate students who have completed previous research experiences in PSYC 297A. Students in the course are expected to demonstrate competence in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Requires approval of instructor and Department Chair.

Credit/No Credit

PSYC 500A. Culminating Experience. 4 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master’s degree.

PSYC 500B. Culminating Experience. 2 Units
Prerequisite(s): PSYC 500A.
Term Typically Offered: Fall, Spring

Continuation of work on thesis or project.

BA in Psychology

Units required for Major: 46-50
Total units required for BA: 120

Program Description

With a Bachelor of Arts in Psychology, graduates can qualify for positions requiring an understanding of human behavior in public service, education, or business. The undergraduate Behavior Analysis Certificate qualifies students for positions requiring the application of behavior analysis in educational settings and health and human service agencies.

The Psychology program at Sacramento State is highly sought after and the undergraduate major is officially impacted. Students wishing to become Psychology majors must meet eligibility requirements before applying for admission to the program. It is highly recommended that interested students speak with a Psychology advisor as soon as possible.

Students interested in a Psychology major or minor should contact the Psychology Department in Amador Hall room 350.
Minimum Grade Requirement

Once admitted to the program, PSYC 2, PSYC 8, AND PSYC 121 must each be completed with a minimum grade of "C-" or better.

Coursework Sequencing

The Psychology Department strongly recommends that Psychology Majors sequence their courses in the following manner to provide them with an optimal learning experience:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshmen and Sophomores</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 2</td>
<td>Introductory Psychology</td>
<td>1,2</td>
</tr>
<tr>
<td>CHAD 30</td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 4</td>
<td>Navigating Psychology: The Major and Careers</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 8</td>
<td>Methods of Psychology</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 9</td>
<td>Introductory Statistics for Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Juniors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 121</td>
<td>Methods and Statistics in Psychological Research</td>
<td>3</td>
</tr>
<tr>
<td>Seniors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 100</td>
<td>Cross-Cultural Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 121</td>
<td>Methods and Statistics in Psychological Research</td>
<td>3</td>
</tr>
</tbody>
</table>

It is important to choose courses in the sequence outlined above. Otherwise, there could be a delay in completion of the major and graduation.

Note: Transfer students must take at least 15 units of Psychology courses in residence at Sacramento State; 12 of those units must be upper division.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Lower Division Courses (13 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 2</td>
<td>Introductory Psychology</td>
<td>1,2</td>
</tr>
<tr>
<td>CHAD 30</td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 4</td>
<td>Navigating Psychology: The Major and Careers</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 8</td>
<td>Methods of Psychology</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 9</td>
<td>Introductory Statistics for Psychology</td>
<td>1</td>
</tr>
<tr>
<td>Required Upper Division Courses (33-37 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 100</td>
<td>Cross-Cultural Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 121</td>
<td>Methods and Statistics in Psychological Research</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following methods courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 102</td>
<td>Advanced Methods and Statistics in Psychological</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Research</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 120</td>
<td>Psychological Testing and Measurement</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 122</td>
<td>Qualitative Research in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 129</td>
<td>Behavioral Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following biological processes courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 111</td>
<td>Foundations of Behavioral Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>PSYC/BIO 115</td>
<td>Introduction to Neuroscience</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 116</td>
<td>Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 117</td>
<td>Drugs and Behavior</td>
<td>4</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 Must be completed with a minimum grade of "C-" or better.
3 Select PSYC 102 if planning to enter a graduate program in Psychology.
General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Area A: Basic Subjects (9 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
</tbody>
</table>

| **Area B: Physical Universe and Its Life Forms (10 Units)** | | |
| B1   | Physical Science | 3 |
| B2   | Life Forms | 3 |
| B3   | Lab (Note: Lab experience to be taken with one of the following: | 1 |
| B1, B2 or B5 | |
| B4   | Math Concepts | 3 |
| B5   | Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. | 0 |

| **Area C: Arts and Humanities (12 Units)** | | |
| C1   | Arts | 3 |
| C2   | Humanities | 3 |
| C1/C2 | Area C Course | 3 |
| C1/C2 | Area C Course - Take upper-division course to complete Area & upper division requirements. | 3 |

| **Area D: The Individual and Society (6 Units)** | | |
| Area D Course | 3 |
| Area D Course | 0 |
| Area D Course - Take upper-division course to complete Area & upper division requirements. | 3 |

| **Area E: Understanding Personal Development (3 Units)** | | |
| Area E Course | 3 |

| **Area F: Ethnic Studies** | | |
| Area F Course | |

**Total Units**: 40

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note**: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Department recommends ANTH 4, ENVS 11, or SOC 8 to meet Area A3.

3 Required in Major; also satisfies GE.

Certificate in Behavior Analysis

**Units required for Certificate**: 20

**Program Description**

The undergraduate Behavior Analysis Certificate qualifies students for positions requiring the application of behavior analysis in educational settings and health and human service agencies. Specialized coursework is taken concurrently with established degree requirements. Courses for the Certificate program are applicable toward course requirements for the major.

To receive the Sacramento State certification in Behavior Analysis, students must:

- complete a baccalaureate degree program with a major in Psychology or a related field;
- achieve a passing grade of "C" or better in each of the BA Certificate Program courses.

Additional certification information may be obtained from the Psychology Department Office.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 171</td>
<td>Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 181</td>
<td>Experimental Analysis of Behavior</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 184</td>
<td>Clinical Issues in Applied Behavior Analysis</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 185</td>
<td>Psychology of Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 129</td>
<td>Behavioral Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 191</td>
<td>Ethics in Behavior Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**: 20

MA in Industrial-Organizational Psychology

**Total units required for MA**: 31-33

**Program Description**

The Master of Arts in Industrial-Organizational Psychology is designed for students who wish to develop marketable career skills that allow them to apply psychological principles and research methods to work-
related issues. The I-O program at CSUS was strongly influenced by the 2016 Guidelines for Education and Training in Industrial-Organizational Psychology, published by the Society for Industrial and Organizational Psychology. While we cover all 24 major competency areas in the SIOP Guidelines to some degree, we give more emphasis to some than to others—a strategy that is common and fully expected in master’s programs according to the narrative of the SIOP Guidelines. In consideration of the typical jobs held by master’s level I-O practitioners in general and especially in the local employment market for our students and alumni, our program gives primary emphasis to topics in human resource planning and development (e.g., job/work analysis; employee recruitment, testing, and selection; employee training; performance management) and general analytical skills (e.g., research methods; measurement; data analysis). These topics are slanted more toward the “industrial” side of the I-O field. Current literature in organizational psychology topics such as work attitudes and motivation, groups and teams, and occupational health and safety have important implications for the aforementioned human resource planning and development topics, and are covered more briefly in the coursework.

Many of our students work locally in I-O-related positions while taking classes, and often have full-time employment upon graduating. Our graduates are sought for employment in various branches of the State of California, other public sector agencies, and private sector consulting firms.

At Sacramento State students in the I-O option have many opportunities to pursue their interests in the field. These opportunities include:

- Completing a supervised applied project, representing their area of research expertise and interest
- Working with I-O faculty in their research labs and presenting research at conferences or submitting work for publication
- Teaching Assistant experience
- Applied fieldwork projects

All students who complete the program requirements are expected to finish the program in 2.5 years. Students who successfully complete the I-O program will have “Industrial-Organizational Psychology” printed on their transcripts and diplomas.

**Admission Requirements**

Admission to graduate study in Psychology is selective. The Department equally weights the candidate’s overall grade point average (GPA) and scores on the Graduate Record Examination (GRE). An overall GPA of 3.0 is recommended. When making admissions decisions, the Department takes into consideration the candidate’s combined GPA and GRE score, letters of recommendation, previous (research and/or practical) experience, the candidate’s interest in a particular faculty member’s research agenda, and additional materials as required by each program option (ABA, General MA, and I/O).

Applicants are required to have completed upper division undergraduate psychology courses in statistics and research methods, with at least "C" grades in those courses, as well as a balanced and academically strong group of upper division courses covering at least five different core academic areas of psychology (e.g., biological, clinical, cognitive, developmental, social). The upper division psychological research methods/statistics requirement is met by PSYC 121 and PSYC 102 taken at Sacramento State, or their equivalents at other universities. Upper division research methods/statistics courses from other four-year universities must be reviewed and approved for equivalency by the Department’s Graduate Coordinator.

Please visit [www.csus.edu/psyc/grad-students/graduate-program-dev.html](http://www.csus.edu/psyc/grad-students/graduate-program-dev.html) for information on each option’s additional requirements.

**Admission Procedures**

All applicants, including Sacramento State graduates, must apply to both the University and the Psychology Department. Please submit the following to the Sacramento State Office of Graduate Studies:

- an application for admission—via CalState Apply ([https://www2.calstate.edu/apply/](https://www2.calstate.edu/apply/))
- two sets of official transcripts from all colleges and universities attended, other than Sacramento State, should be sent to:
  - California State University, Sacramento
  - Office of Graduate Studies
  - River Front Center 215
  - 6000 J Street
  - Sacramento, CA 95819-6112
- Official Graduate Records Exam (GRE) scores (be aware that it takes approximately six weeks from the test date for scores to be forwarded); for more admissions information and application deadlines please visit [http://www.csus.edu/gradstudies](http://www.csus.edu/gradstudies)

At the same time, each applicant must file on-line with the Psychology Department:

- a completed application form;
- one set of unofficial transcripts from all colleges and universities attended, including Sacramento State transcripts;
- unofficial copies of the General GRE scores*;
- three letters of recommendation, from individuals who can evaluate the applicant’s potential for successful graduate study. At least two letters from faculty are preferred. See application brochure for link—available from [www.csus.edu/psyc/grad-students/graduate-program-dev.html](http://www.csus.edu/psyc/grad-students/graduate-program-dev.html);
- additional materials, as required by each specific option (General MA, ABA and I/O).

*The General GRE must have been taken by the application deadline.

**Minimum Units and Grade Requirement for the Degree**

Units required for the MA: 34-36
Minimum Cumulative GPA: 3.0. All units must be completed with a grade of “B” or better.

The field of Industrial-Organizational Psychology (I-O Psychology) covers all aspects of psychology in the workplace, including such sub-topics as: organizational development, leadership, performance evaluation, personnel selection, test validation and development, work teams, training, and personality influences.

The Industrial-Organizational Psychology Option at Sacramento State is designed to give broad-based training in the relevant content areas as well as provide a strong methodological background. Students obtaining the Master’s degree should be prepared for a career as a personnel manager, a testing specialist, a member of an I-O consulting group; they should also be prepared for further graduate work at the doctoral level.

By meeting all of the requirements for the degree, students will have met...
the master's level educational competencies identified by the Society for Industrial and Organizational Psychology.

Students are strongly advised to keep in contact with professors in the Psychology Department for academic advising.

**Advancement to Candidacy**

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses in the graduate program with a minimum 3.0 GPA;
- selected a Thesis or Project committee;
- obtained the committee's approval of a proposal for the thesis or project (as indicated by committee members' signatures on the Department's thesis/project approval form); and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

The student will complete the Advancement to Candidacy form after planning a degree program in consultation with a Psychology advisor and members of the student’s thesis/project committee. The completed form is then returned to the Office of Graduate Studies for approval.

**Program Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 200</td>
<td>Methods in Empirical Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 202</td>
<td>Survey of Contemporary Statistical Methods in Psychological Research</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 204</td>
<td>Advanced Topics in Statistical Methods for Psychological Research</td>
<td>3</td>
</tr>
<tr>
<td>or PSYC 205</td>
<td>Measurement Methods for Psychological Research and Practice</td>
<td></td>
</tr>
<tr>
<td>PSYC 206</td>
<td>Tests and Measurement</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 267</td>
<td>Training &amp; Employee Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 269</td>
<td>Analysis of Work and Employee Selection</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 216A</td>
<td>Current Literature and Applications in Industrial-Organizational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 216B</td>
<td>Current Literature and Applications in Industrial-Organizational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 294</td>
<td>Cooperative Research</td>
<td>3</td>
</tr>
<tr>
<td>or any 200-level course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Culminating Experience (4-6 Units)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 500A</td>
<td>Culminating Experience</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 500B</td>
<td>Culminating Experience</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Units**: 31-33

1 Students must enroll in PSYC 500B if thesis/project is not satisfactorily completed while enrolled in PSYC 500A.

### MA in Psychology (General Psychology)

**Total units required for the MA**: 30

#### Program Description

The Master of Arts program in Psychology is designed to provide specialized education in the field of psychology. With a MA in Psychology, one can qualify for positions similar to those associated with a BA, though at a higher level of responsibility. Advisors play an active role in the planning process, and students are strongly encouraged to consult with faculty on a continual and intensive basis as soon as they begin their studies in the program. MA students can prepare for doctoral study in any area of Psychology or specialize in areas such as Applied Behavior Analysis or Industrial-Organizational Psychology. The Graduate Brochure contains the department application procedures, including GRE requirements and the departmental application form.

Although the program is based on a core set of requirements, the structure of the program allows for flexibility. While much material is covered in regular course offerings, the Department recognizes that specialized study and the development of certain types of skills must take place on a one-to-one student-instructor basis. This includes research activities in the laboratory, field, or library; teaching activities; and volunteer work in community mental health agencies, government agencies, schools, and/or businesses. Academic credit under individualized study or fieldwork designations is available for these purposes.

In the General Psychology option, students can create individual programs in conjunction with the faculty to prepare for employment or further study in doctoral programs in a variety of specialized fields, such as Clinical, Cognitive, Developmental, Educational, Experimental, Industrial/Organizational, Neuroscience, Quantitative, and Social Psychology.

#### Admission Requirements

Admission to graduate study in Psychology is selective. The Department equally weighs the candidate’s overall grade point average (GPA) and scores on the Graduate Record Examination (GRE). An overall GPA of 3.0 is recommended. When making admissions decisions, the Department takes into consideration the candidate's combined GPA and GRE score, letters of recommendation, previous (research and/or practical) experience, the candidate's interest in a particular faculty member’s research agenda, and additional materials as required by each program option (ABA, General MA, and I/O).

Applicants are required to have completed upper division undergraduate psychology courses in statistics and research methods, with at least “C” grades in those courses, as well as a balanced and academically strong group of upper division courses covering at least five different core academic areas of psychology (e.g., biological, clinical, cognitive, developmental, social). The upper division psychological research methods/statistics requirement is met by PSYC 121 and PSYC 102 taken at Sacramento State, or their equivalents at other universities. Upper division research methods/statistics courses from other four-year universities must be reviewed and approved for equivalency by the Department's Graduate Coordinator.
Please visit www.csus.edu/psyc/grad-students/graduate-program-dev.html for information on each option's additional requirements.

### Admission Procedures

All applicants, including Sacramento State graduates, must apply to both the University and the Psychology Department. Please submit the following to the Sacramento State Office of Graduate Studies:

- an application for admission—via CalState Apply (https://www2.calstate.edu/apply/)
- two sets of official transcripts from all colleges and universities attended, other than Sacramento State, should be sent to:

  California State University, Sacramento
  Office of Graduate Studies
  River Front Center 215
  6000 J Street
  Sacramento, CA 95819-6112

- Official Graduate Records Exam (GRE) scores (be aware that it takes approximately six weeks from the test date for scores to be forwarded); for more admissions information and application deadlines please visit http://www.csus.edu/gradstudies

At the same time, each applicant must file on-line with the Psychology Department:

- a completed application form;
- one set of unofficial transcripts from all colleges and universities attended, including Sacramento State transcripts;
- unofficial copies of the General GRE scores*;
- three letters of recommendation, from individuals who can evaluate the applicant's potential for successful graduate study. At least two letters from faculty are preferred. See application brochure for link—available from www.csus.edu/psyc/grad-students/graduate-program-dev.html;
- additional materials, as required by each specific option (General MA, ABA and I/O).

*The General GRE must have been taken by the application deadline.

### Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30
Minimum Cumulative GPA: 3.0. All units must be completed with a grade of "B" or better.

### Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses in the graduate program with a minimum 3.0 GPA;
- selected a Thesis or Project committee;
- obtained the committee's approval of a proposal for the thesis or project (as indicated by committee members' signatures on the Department's thesis/project approval form); and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

The student will complete the Advancement to Candidacy form after planning a degree program in consultation with a Psychology advisor and members of the student's thesis/project committee. The completed form is then returned to the Office of Graduate Studies for approval.

### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PSYC 200</td>
<td>Methods in Empirical Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 202</td>
<td>Survey of Contemporary Statistical Methods in Psychological Research</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Group 1 Seminars (3 Units)

Select one of the following:

- PSYC 209 Seminar in Systems of Psychology
- PSYC 210 Theories of Personality
- PSYC 217 Seminar in Social Psychology
- PSYC 251 Developmental Processes
- PSYC 268 Advanced Psychopathology

#### Group 2 Seminars (3 Units)

Select one of the following:

- PSYC 240 Seminar in Behavioral Neuroscience
- PSYC 241 Seminar in Cognitive Psychology
- PSYC 242 Seminar in Learning and Behavior

#### Methods (3 Units)

Select one of the following:

- PSYC 204 Advanced Topics in Statistical Methods for Psychological Research
- PSYC 205 Measurement Methods for Psychological Research and Practice
- PSYC 206 Tests and Measurement
- PSYC 272 Research Methods in Behavior Analysis

#### Additional Courses (11 Units)

- PSYC 283 Teaching Of Psychology
- Select two other PSYC courses (in any combination) from Group 1 Seminars, Group 2 Seminars, or Methods
- PSYC 294 Cooperative Research or PSYC 299 Special Problems

#### Culminating Experience (4-6 Units)

- PSYC 500A Culminating Experience
- PSYC 500B Culminating Experience

| Total Units | 30-32 |

---

1 Students must enroll in PSYC 500B if thesis/project is not satisfactorily completed while enrolled in PSYC 500A.

### MA in Psychology (Industrial-Organizational Psychology)

Total units required for MA: 30
Program Description

The Master of Arts program in Psychology is designed to provide specialized education in the field of psychology. With a MA in Psychology, one can qualify for positions similar to those associated with a BA, though at a higher level of responsibility. Advisors play an active role in the planning process, and students are strongly encouraged to consult with faculty on a continual and intensive basis as soon as they begin their studies in the program. MA students can prepare for doctoral study in any area of Psychology or specialize in areas such as Applied Behavior Analysis or Industrial-Organizational Psychology. The Graduate Brochure contains the department application procedures, including GRE requirements and the departmental application form.

Although the program is based on a core set of requirements, the structure of the program allows for flexibility. While much material is covered in regular course offerings, the Department recognizes that specialized study and the development of certain types of skills must take place on a one-to-one student-instructor basis. This includes research activities in the laboratory, field, or library; teaching activities; and volunteer work in community mental health agencies, government agencies, schools, and/or businesses. Academic credit under individualized study or fieldwork designations is available for these purposes.

The Industrial-Organizational Psychology Option is designed for students who wish to develop marketable career skills that allow them to apply psychological principles and research methods to work-related issues. The I-O program at Sacramento State was designed with heavy influence from the 2016 Guidelines for Education and Training in Industrial-Organizational Psychology, published by the Society for Industrial and Organizational Psychology. While we cover all 24 major competency areas in the SIOP Guidelines to some degree, we give more emphasis to some than we do others—a strategy that is common and fully expected in master programs according to the narrative of the SIOP Guidelines. In consideration of the typical jobs held by master’s level I-O practitioners in general and especially in the local employment market for our students and alumni, our program gives primary emphasis to topics in human resource planning and development (e.g., job/work analysis; employee recruitment, testing, and selection; employee training; performance management) and general analytical skills (e.g., research methods; measurement; data analysis). These topics are slanted more toward the “industrial” side of the I-O field. Current literature in organizational psychology topics such as work attitudes and motivation, groups and teams, and occupational health and safety have important implications for the aforementioned human resource planning and development topics, and are covered more briefly in the coursework. In addition to completing the core courses and the culminating requirement for the MA degree, students must also select the Industrial-Organizational Psychology option.

Admission Requirements

Admission to graduate study in Psychology is selective. The Department equally weighs the candidate’s overall grade point average (GPA) and scores on the Graduate Record Examination (GRE). An overall GPA of 3.0 is recommended. When making admissions decisions, the Department takes into consideration the candidate’s combined GPA and GRE score, letters of recommendation, previous (research and/or practical) experience, the candidate’s interest in a particular faculty member’s research agenda, and additional materials as required by each program option (ABA, General MA, and I/O).

Applicants are required to have completed upper division undergraduate psychology courses in statistics and research methods, with at least "C" grades in those courses, as well as a balanced and academically strong group of upper division courses covering at least five different core academic areas of psychology (e.g., biological, clinical, cognitive, developmental, social). The upper division psychological research methods/statistics requirement is met by PSYC 121 and PSYC 102 taken at Sacramento State, or their equivalents at other universities. Upper division research methods/statistics courses from other four-year universities must be reviewed and approved for equivalency by the Department’s Graduate Coordinator.

Please visit www.csus.edu/psyc/grad-students/graduate-program-dev.html for information on each option’s additional requirements.

Admission Procedures

All applicants, including Sacramento State graduates, must apply to both the University and the Psychology Department. Please submit the following to the Sacramento State Office of Graduate Studies:

• an application for admission—via CalState Apply (https://www2.calstate.edu/apply/)
• two sets of official transcripts from all colleges and universities attended, other than Sacramento State, should be sent to:
  
  California State University, Sacramento
  Office of Graduate Studies
  River Front Center 215
  6000 J Street
  Sacramento, CA 95819-6112

• Official Graduate Records Exam (GRE) scores (be aware that it takes approximately six weeks from the test date for scores to be forwarded); for more admissions information and application deadlines please visit http://www.csus.edu/gradstudies

At the same time, each applicant must file on-line with the Psychology Department:

• a completed application form;
• one set of unofficial transcripts from all colleges and universities attended, including Sacramento State transcripts;
• unofficial copies of the General GRE scores*;
• three letters of recommendation, from individuals who can evaluate the applicant’s potential for successful graduate study. At least two letters from faculty are preferred. See application brochure for links—available from www.csus.edu/psyc/grad-students/graduate-program-dev.html ;
• additional materials, as required by each specific option (General MA, ABA and I/O).

*The General GRE must have been taken by the application deadline.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 34-36
Minimum Cumulative GPA: 3.0. All units must be completed with a grade of "B" or better.

The field of Industrial-Organizational Psychology (I-O Psychology) covers all aspects of psychology in the workplace, including such sub-topics as: organizational development, leadership, performance evaluation,
personnel selection, test validation and development, work teams, training, and personality influences.

The Industrial-Organizational Psychology Option at Sacramento State is designed to give broad-based training in the relevant content areas as well as provide a strong methodological background. Students obtaining the Master's degree should be prepared for a career as a personnel manager, a testing specialist, a member of an I-O consulting group; they should also be prepared for further graduate work at the doctoral level. By meeting all of the requirements for the degree, students will have met the master's level educational competencies identified by the Society for Industrial and Organizational Psychology.

Students are strongly advised to keep in contact with professors in the Psychology Department for academic advising.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses in the graduate program with a minimum 3.0 GPA;
- selected a Thesis or Project committee;
- obtained the committee's approval of a proposal for the thesis or project (as indicated by committee members’ signatures on the Department's thesis/project approval form); and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

The student will complete the Advancement to Candidacy form after planning a degree program in consultation with a Psychology advisor and members of the student’s thesis/project committee. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>PSYC 2</td>
<td>Introductory Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 8</td>
<td>Methods of Psychology</td>
<td>3</td>
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<td></td>
<td>Select two of the following:</td>
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<tr>
<td>PSYC 103</td>
<td>Perception</td>
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<tr>
<td>PSYC 104</td>
<td>Learning Theories</td>
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<tr>
<td>PSYC 106</td>
<td>Motivation</td>
<td></td>
</tr>
<tr>
<td>PSYC 110</td>
<td>Cognitive Psychology</td>
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</tr>
<tr>
<td>PSYC 111</td>
<td>Foundations of Behavioral Neuroscience</td>
<td></td>
</tr>
<tr>
<td>PSYC/BIO 115</td>
<td>Introduction to Neuroscience</td>
<td></td>
</tr>
<tr>
<td>PSYC 116</td>
<td>Animal Behavior</td>
<td></td>
</tr>
<tr>
<td>PSYC 117</td>
<td>Drugs and Behavior</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
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<tr>
<td>PSYC 100</td>
<td>Cross-Cultural Psychology</td>
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</tr>
<tr>
<td>PSYC 108</td>
<td>Organizational Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 130</td>
<td>Personality Theories</td>
<td></td>
</tr>
<tr>
<td>PSYC 145</td>
<td>Social Psychology</td>
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<tr>
<td>PSYC 148</td>
<td>Child Psychology</td>
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<tr>
<td>PSYC 149</td>
<td>Psychology of Adolescence</td>
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<tr>
<td>PSYC 150</td>
<td>Psychological Aspects of Aging</td>
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<tr>
<td>PSYC 168</td>
<td>Abnormal Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Elective

Select one additional upper division Psychology course numbered 100-199

Total Units: 21-22

1 Must be completed with a grade of "C-" or better.
2 May be applied to both the Minor and General Education requirements

Minor in Psychology

Units required for Minor: 21

Program Description

Psychology is the scientific study of human and animal behavior, cognition, and emotion. It is a broad discipline that includes both basic research and the application of research findings to everyday life.

Program Requirements

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</tr>
<tr>
<td>PSYC 168</td>
<td>Abnormal Psychology</td>
<td></td>
</tr>
</tbody>
</table>

Elective

Select one additional upper division Psychology course numbered 100-199

Total Units: 21-22

1 Must be completed with a grade of "C-" or better.
2 May be applied to both the Minor and General Education requirements

MS in Applied Behavior Analysis

Total units required for MS: 40-42

Program Description

Applied behavior analysis (ABA) is the field of Psychology concerned with understanding the environmental variables that reliably influence
human behavior, as well as developing procedures to modify socially significant behavior. The Master of Science program in ABA prepares students to work as behavior analysts in a variety of settings including schools, hospitals, neurorehabilitation settings, and agencies providing services to individuals with developmental disabilities. The ABA option coursework should fulfill the most recent requirements to sit for the national certification exam in behavior analysis (BCBA). For more information visit www.bacb.com. Students should note that this program is also appropriate for those planning to enter doctoral programs in Applied Behavior Analysis, Experimental Analysis of Behavior, or Special Education. Advisors play an active role in the planning process, and students are strongly encouraged to consult with faculty on a continual and intensive basis as soon as they begin their studies in the program. The Graduate Brochure contains the department application procedures, including GRE requirements and the departmental application form.

Although the program is based on a core set of requirements, the structure of the program allows for flexibility. While much material is covered in regular course offerings, the Psychology Department recognizes that specialized study and the development of certain types of skills must take place on a one-to-one student instructor basis. This includes research activities in the laboratory, field, or library; teaching activities; and practicum experience in community settings. Academic credit under individualized study or fieldwork designations is available for these purposes. Our research facilities include human and animal (rats) operant laboratories and research rooms for data collection with children and adults. We have also established research partnerships with different schools and agencies in the region. Finally, clinical training is also an integral part of our program. There are numerous funded internships and job opportunities for behavior analysis students in Sacramento.

**Admission Requirements**

Admission to the MS in Applied Behavior Analysis (ABA) is selective. The Department equally weighs the candidate's overall grade point average (GPA) and scores on the Graduate Record Examination (GRE). An overall GPA of 3.0 is recommended. When making admissions decisions, the Department takes into consideration the candidate's combined GPA and GRE score, letters of recommendation, previous (research and/ or practical) experience, the candidate's interest in a particular faculty member's research agenda, and additional materials.

Applicants are required to have a Bachelor's degree, a lower division undergraduate psychology course in research methods, and an upper division undergraduate course in applied behavior analysis, with at least "C" grades in those courses. The lower division research methods requirement is met by PSYC 8 and the upper division applied behavior analysis requirement is met by PSYC 171 taken at Sacramento State, or their equivalents at other colleges and universities. Course equivalents must be reviewed and approved by the Department's Graduate Coordinator.

Please visit the Department of Psychology (https://www.csus.edu/college/social-sciences-interdisciplinary-studies/psychology/) for information on additional requirements.

**Admission Procedures**

All applicants, including Sacramento State graduates, must apply to both the University and the Psychology Department. Please submit the following to the Sacramento State Office of Graduate Studies:

- one set of official transcripts from all colleges and universities attended, other than Sacramento State

For more admissions information and application deadlines please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

At the same time, each applicant must submit the following supplemental application:

- unofficial copies of the General GRE scores*;
- three letters of recommendation, from individuals who can evaluate the applicant's potential for successful graduate study. At least two letters from faculty are preferred. See application brochure—available from www.csus.edu/psyc/grad-students/graduate-program-dev.html — for any additional required materials.

*The General GRE must have been taken by the application deadline.

**Minimum Units and Grade Requirements**

Units required for the MS: 40-42, each with a grade of "B" or better.

Minimum required GPA: 3.0.

**Advancement to Candidacy**

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses in the graduate program with a minimum 3.0 GPA;
- selected a Thesis or Project committee;
- obtained the committee's approval of a proposal for the thesis or project (as indicated by committee members' signatures on the Department's thesis/project approval form); and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento, or secured approval for a WPG waiver.

The student will complete the Advancement to Candidacy form after planning a degree program in consultation with a Psychology advisor and members of the student's thesis/project committee. The completed form is then returned to the Office of Graduate Studies for approval.

**Culminating Experience Requirements**

Students must enroll once for four units of PSYC 500A, which may be satisfied by completing an empirical thesis. Each student will compile an APA-style manuscript, including introduction, method, results, and discussion sections, at the conclusion of the thesis. Students must also successfully pass an oral defense of the thesis.

If the thesis or project is not completed by the end of the first semester in which a student is registered for culminating requirement units, they must enroll for two units of PSYC 500B during the following semester. If the thesis is still not completed by the end of that semester, students must enroll in the university designated thesis/project continuation course.
Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Core Course (3 Units)</strong></td>
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<tr>
<td>PSYC 200</td>
<td>Methods in Empirical Psychology</td>
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<td><strong>Required Area Courses (27 Units)</strong></td>
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<tr>
<td>PSYC 291</td>
<td>Professional Issues in Behavior Analysis</td>
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<td>PSYC 271</td>
<td>Advanced Applied Behavior Analysis</td>
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<td>PSYC 272</td>
<td>Research Methods in Behavior Analysis</td>
<td>3</td>
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<tr>
<td>PSYC 274</td>
<td>Theoretical Foundations of Behavior Analysis</td>
<td>3</td>
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<tr>
<td>PSYC 281</td>
<td>Advanced Experimental Analysis of Behavior</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 284</td>
<td>Assessment and Treatment of Behavior Problems</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 242</td>
<td>Seminar in Learning and Behavior</td>
<td>3</td>
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<tr>
<td>PSYC 275</td>
<td>Applied Behavior Analysis in the Workplace</td>
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<td><strong>Required Experiential Learning (6 Units)</strong></td>
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<tr>
<td>PSYC 294</td>
<td>Cooperative Research</td>
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<td>PSYC 297A</td>
<td>Advanced Graduate Research I</td>
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<td>PSYC 297B</td>
<td>Advanced Graduate Research II</td>
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<tr>
<td>PSYC 299</td>
<td>Special Problems</td>
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<td><strong>Culminating Experience (4-6 Units)</strong></td>
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<tr>
<td>PSYC 500A</td>
<td>Culminating Experience</td>
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<tr>
<td>PSYC 500B</td>
<td>Culminating Experience</td>
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<tr>
<td><strong>Total Units</strong></td>
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<td><strong>40-42</strong></td>
</tr>
</tbody>
</table>

Note: Students must enroll in PSYC 500B if thesis/project is not satisfactorily completed while enrolled in PSYC 500A.

Public Policy and Administration

**College of Social Sciences and Interdisciplinary Studies**

**Program Description**

The graduate programs in the Department of Public Policy and Administration prepare students for a career in public service through a deeper understanding of how to address complex issues relating to public policy and administration. We serve the State of California and Sacramento Region by developing leaders possessing strong analytical tools, and a deep commitment to public service.

**Note:** The Department of Public Policy and Administration, in collaboration with the College of Business Administration, also offers an interdisciplinary Master’s of Science in Urban Land Development. In addition, it offers an interdisciplinary doctorate in Education in collaboration with the College of Education. Both of these programs are listed separately in this catalog.

**Special Features**

- The proximity of Sacramento State to the State Capitol offers significant advantages to students by providing them with a ready "laboratory" for observing the policy and administrative issues they will confront professionally, and for gaining experience alongside existing practitioners in public policy and administration.
- The graduate program’s curricular design and scheduling of courses allow students to complete the program in four semesters if enrolled full-time. In addition, part-time students may complete the program after five or a six semesters of attendance. Classes are scheduled in the evening, and sometimes on Saturday, to accommodate the scheduling needs of students who are employed in the daytime, or who have other obligations that require non-traditional schedules.
- As a reflection of the growing interest in collaborative processes to solve public concerns, and the need for mid-level administrators in the judicial system, the PPA Department also offers certificates in Collaborative Governance and Judicial Administration (through the College of Continuing Education).

**Career Possibilities**

Policy analyst and/or public administrator for state, federal, or local government; private firm or association; or not-for profit organization

**Contact Information**

Edward L. (Ted) Lascher, Jr., Department Chair
Suzi Byrd, Administrative Support Coordinator
Tahoe Hall 3038
(916) 278-6557

**Faculty**

CHANG, AHRUM
KUMAR, AMAL
WASSMER, ROBERT W.

**PPA 100. Introduction to Public Policy and Administration.** 3 Units
Prerequisite(s): GOVT 1 or GOVT 150 or equivalent.
Term Typically Offered: Fall, Spring

Explores context and process for policy making by national and California state governments, including ethical dimensions. Applications are developed from students’ and instructor’s areas of interest including K-12 and higher education, land-use policy, and aging issues such as elder advocacy, Social Security, and Medicaid. Provides background and skills for entry level positions in public or non-profit organizations. Cross Listed: GERO 102; only one may be counted for credit.

**PPA 200. Introduction to Public Policy and Administration.** 3 Units
Term Typically Offered: Fall, Spring

Examines public policy and administration by exploring major policy processes, particularly in California state and local government. Topics include the emergence and specification of issues, developing and selecting policy options, implementing and administering policies and evaluating and terminating public policies. The course approach is comprehensive, transdisciplinary and human centered – concerned with the interplay of values in shaping policy outcomes. The intent is to provide conceptual frameworks and operational principles required in identifying and resolving issues emerging in public settings.

**Note:** Satisfies the Graduate Writing Intensive Requirement (GWI).
PPA 250.  California Land Use Policy.  3 Units
Term Typically Offered:  Fall, Spring
Examines public policies that influence land use. Reviews tools of land use planning and development and applies them to issues that dominate California policy choices including urban design, fiscalization of land use, sustained growth, and the challenges of social equity.

PPA 251.  Urban Problems, Economics and Public Policy.  3 Units
Prerequisite(s):  PPA 220A or ECON 100B.
Corequisite(s):  ECON 251; only one of these courses may be counted for credit.
Term Typically Offered:  Fall, Spring
Historical development, economics and possible policy solutions of the most pressing problems facing central cities and urban areas in the U.S. are presented. Problems discussed include poverty, crime, urban abandonment/suburban sprawl, edge cities, deteriorating infrastructures, and fiscal stress.
Cross Listed:  ECON 251; only one may be counted for credit.

PPA 270.  Introduction to Collaborative Policy Making.  3 Units
Prerequisite(s):  PPA 200 and PPA 210, or approval of instructor.
Term Typically Offered:  Fall, Spring
Examines the theory and practice of collaborative policy-making using case studies of major collaborative processes. Topics include interpretative policy analysis, deliberative democracy theory, public participation, collaborative policy networks, the use of dialogue in public policy, resolution of policy controversies, and consensus building.
PPA 272. Collaborative Governance Advanced Practice. 3 Units
Prerequisite(s): PPA 270 with a grade of B- or better, or instructor permission.
Term Typically Offered: Fall, Spring
Practice driven, highly participatory course for professionals who require more advanced skills into collaborative methods. Topics include conflict analysis and assessment, analysis of advocacy speech, public participation, working with the media, and interagency networks. Focuses on active learning with practice in a wide variety of collaborative skills.

PPA 284. Urban Policy. 3 Units
Term Typically Offered: Fall, Spring
Exploration in-depth of the socio-economic problems of urban and metropolitan areas and evaluation of proposed political and governmental solutions.
Cross Listed: GOVT 284; only one may be counted for credit.

PPA 291. Court Governance and Operations. 3 Units
Term Typically Offered: Fall, Spring
Studies the state judiciary as both independent and interdependent with the legislative and executive branches of government at both the state and local level. The goal is to develop foundational knowledge of the historical and evolving governing and operational principles of the California court system.

PPA 292. Court Management. 3 Units
Prerequisite(s): PPA 291 or instructor permission.
Term Typically Offered: Fall, Spring
Provides training in key court administrative areas identified by such organizations as the National Association of Court Management (e.g., case flow management). Drawing from interdisciplinary literature on management theory, court case studies illustrate and provide context.

PPA 293. Court Leadership. 3 Units
Term Typically Offered: Fall, Spring
Examines leadership in the court environment as distinct from management. Investigates how leadership principles are exercised in pivotal areas of the courts such as: community relations, creativity and innovation, organizational change, workforce development, succession planning, strategic planning and re-engineering.

PPA 294. Emerging Issues in Judicial Administration. 3 Units
Term Typically Offered: Fall, Spring
Addresses pressing issues in judicial administration (e.g., courts in an electronic world, rising administrative workloads, greater number of self-represented litigants). Specific topics may change from year to year depending on the urgency of topics and nature of policy implications.

PPA 296E. Intergovernmental Relations. 3 Units
Term Typically Offered: Fall, Spring
A review of the origins of federalism in the U.S. and various theoretical approaches to understanding the relationships between various levels of government, including ways in which the different levels of government relate to one another both vertically and horizontally.

PPA 296M. Policy Prototyping. 3 Units
Prerequisite(s): At least one graduate course in political science, economics, and administration or management; no more than one of which may be taken as a co-requisite.
Term Typically Offered: Spring only
Applies policy and administrative prototyping to policy topics such as transportation and mobility, environment and resources, and education, workforce, and justice. The course uses the drafting and iteration of statutes, ordinances, and regulations, budget and personnel plans, organizational designs, and vote counts, along with sketching design thinking applications, to explore innovative strategies for addressing these policy topics, with an emphasis on implementation.

PPA 297A. Executive Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring
Seminar will enhance Executive Fellows’ understanding of the state policy making and administrative process, policy implementation, ethical responsibilities of policy and administrative actors.
Note: Open only to students admitted to the Executive Fellowship Program.

PPA 297B. Executive Fellows Policy Seminar. 3 Units
Prerequisite(s): PPA 297A
Term Typically Offered: Fall, Spring
Seminar will extend the examination and analysis of the Executive branch of government to include alternative administrative practices, policy implementation strategies, and related administrative issues.
Note: Open only to students admitted to the Executive Fellowship Program.

PPA 298A. Judicial Administration Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring
Critical examination and analysis of the administrative operation of the California judicial system and its structures, policies and practices.
Note: Open only to students admitted to the Judicial Administration Fellows Program.

PPA 298B. Judicial Administration Fellows Policy Seminar. 3 Units
Term Typically Offered: Fall, Spring
Analyzes procedural issues and policy questions within the California judicial system with emphasis on the interdependence of the judicial, legislative and executive branches.
Note: Open only to students admitted to the Judicial Administration Fellows Program.

PPA 299. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of faculty supervisor and the Department Chair.
Term Typically Offered: Fall, Spring
Supervised independent study in public policy and administration. Credit/No Credit
PPA 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring
Completion of a comprehensive exam or project approved for the Master’s degree.

Certificate in Applied Policy and Government
Units required for Certificate: 6

Program Description
The Capital Campus’s graduate programs in Public Policy and Administration prepare future leaders to address the complex issues that face California. We serve the State and the region by developing leaders with strong analytical tools and a deep commitment to public service.

Admission Requirements
Acceptance to one of the four Capital Fellows Programs: Assembly, Judicial Administration, Executive, or Senate.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Required Courses (6 Units)</td>
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<tr>
<td>Select the two courses applicable to your program</td>
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<td>For Senate Fellows:</td>
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<tr>
<td>POLS 293A Senate Fellows Introductory Seminar</td>
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<td>POLS 293B Senate Fellows Policy Seminar</td>
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<tr>
<td>For Assembly Fellows:</td>
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<tr>
<td>POLS 294A Assembly Fellows Introductory Seminar</td>
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<td>PPA 287B Executive Fellows Policy Seminar</td>
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<td>PPA 298B Judicial Administration Fellows Policy Seminar</td>
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<td>Total Units</td>
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</table>

Certificate in Collaborative Governance
Units required for Certificate: 6

Program Description
The Capital Campus’s graduate programs in Public Policy and Administration prepare future leaders to address the complex issues that face California. We serve the State and the region by developing leaders with strong analytical tools and a deep commitment to public service.

Certificate in Judicial Administration
Units required for Certificate: 12

Program Description
The Capital Campus’s graduate programs in Public Policy and Administration prepare future leaders to address the complex issues that face California. We serve the State and the region by developing leaders with strong analytical tools and a deep commitment to public service.

Admission Requirements
The Baccalaureate degree AND application for the Graduate Certificate in Judicial Administration as administered through the College of Continuing Education.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<td>PPA 292 Court Management</td>
<td>3</td>
<td></td>
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<tr>
<td>PPA 293 Court Leadership</td>
<td>3</td>
<td></td>
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<tr>
<td>PPA 294 Emerging Issues in Judicial Administration</td>
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<tr>
<td>Total Units</td>
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</tbody>
</table>

Master of Public Policy and Administration
Total units required for MPPA: 36

Program Description
The Capital Campus’s graduate programs in Public Policy and Administration prepare future leaders to address the complex issues that face California. We serve the State and the region by developing leaders with strong analytical tools and a deep commitment to public service.

Graduates of our graduate programs are expected to have the ability to: 1) synthesize, analyze, and offer solutions to public policy and administration problems; 2) apply knowledge and skills in a professional setting; and 3) recognize the role of the profession in society (e.g., by
considering the ethical dimension of choices about public policy and administration).

Admission Requirements

Admission to classified standing in the program requires:

• the baccalaureate degree;
• a GPA of 2.75 for all undergraduate coursework or in the last 60 units;
• results of the Graduate Record Examination (GRE) General Test; the department chair may waive this requirement for an applicant with at least five years of professional experience in the area of public policy and administration;
• completion of the following (or their equivalents at other colleges or universities as determined by the Department Chair):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>POLS 1</td>
<td>Essentials Of Government</td>
<td>3</td>
</tr>
</tbody>
</table>

• a written statement of purpose from one to two pages in length (typewritten), addressing the applicant’s purpose in pursuing the Master of Public Policy and Administration;
• three letters of recommendation from individuals with knowledge of the applicant’s academic and professional potential.

All applicants to graduate programs who have not completed a baccalaureate degree from a postsecondary educational institution where English is the primary language of instruction must achieve a minimum score on TOEFL or IELTS. The minimum score is 83 iBT (560 Paper Based TOEFL) or 6.5 IELTS.

A student with certain deficiencies in the above requirements may be admitted to the program on a conditionally classified status. Admission conditions will be determined on an individual basis.

Admission Procedures

All prospective students must file the following with the Office of Graduate Studies:

• an online application for admission;
• one set of official transcripts from all colleges and universities attended, other than Sacramento State; and
• GRE scores.

For more admissions information and application deadlines please visit https://www.csus.edu/graduate-studies/.

The items below should be submitted to the Department office:

• written statement of purpose;
• letters of recommendation; and
• TOEFL score or IELTS score, if applicable.

Minimum Units and Grade Requirement for the Degree

Units required for the MPPA: 36

Minimum Cumulative GPA: 3.0 with no grade lower than a "B-" in all required courses (and "credit" for PPA 500).

Advancement to Candidacy

Students must file an application for Advancement to Candidacy listing their program of graduate study. The filing procedure should begin as soon as the student has:

• removed any deficiencies in admission requirements;
• completed at least five of the program’s required courses with a minimum grade of "B-" in each and a cumulative grade point average of at least 3.0; and
• Satisfy the Graduate Writing Assessment Requirement (GWAR) by completing one of our Departmental Graduate Writing Intensive (GWI) courses with a grade of "B" or better (either PPA 200 or PPA 220A) or meeting one of the other standards set by the Office of Graduate Studies.

Department specific advancement to candidacy forms are available in the Department office.

Program Requirements

<table>
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<th>Units</th>
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<td>PPA 200</td>
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<tr>
<td>PPA 205</td>
<td>Research in Public Policy and Administration</td>
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</tr>
<tr>
<td>PPA 207</td>
<td>Quantitative Methods in Public Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PPA 210</td>
<td>Political Environment of Policy Making</td>
<td>3</td>
</tr>
<tr>
<td>PPA 220A</td>
<td>Applied Economic Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>PPA 220B</td>
<td>Applied Economic Analysis II</td>
<td>3</td>
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<tr>
<td>PPA 230</td>
<td>Public Budgeting and Finance</td>
<td>3</td>
</tr>
<tr>
<td>PPA 240A</td>
<td>Public Management and Administration I</td>
<td>3</td>
</tr>
<tr>
<td>PPA 240B</td>
<td>Public Management and Administration II</td>
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Electives (6 Units)

Select 6 units. Graduate level PPA elective courses include the following: 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PPA 250</td>
<td>California Land Use Policy</td>
<td>3</td>
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<tr>
<td>PPA/ECON 251</td>
<td>Urban Problems, Economics and Public Policy</td>
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</tr>
<tr>
<td>PPA 270</td>
<td>Introduction to Collaborative Policy Making</td>
<td>3</td>
</tr>
<tr>
<td>PPA 272</td>
<td>Collaborative Governance Advanced Practice</td>
<td>3</td>
</tr>
<tr>
<td>PPA/POLS 284</td>
<td>Urban Policy</td>
<td>3</td>
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Culminating Requirement (3 Units)

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>PPA 500</td>
<td>Culminating Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 36

Footnotes

1 PPA graduate students are required to take 6 units of elective courses. Ordinarily at least 3 of these units should be chosen from among the graduate level elective courses offered by the Department of Public Policy and Administration. As appropriate, the requirement to take at least 3 units within PPA may be waived with the approval of the student’s academic advisor and the Department Chair. Additionally, the Department has offered experimental PPA 296 electives in the past, and will continue to do so.

2 Enrollment in PPA 500 is required of students in their last semester of enrollment in the program. Each student will undertake a project or comprehensive examination dealing with a policy or administrative issue
and complete a significant written work detailing the problem or issue examined, sources of information used in analyzing the issue, and project findings and conclusions.

Social Science
College of Social Sciences and Interdisciplinary Studies

Program Description
The Social Science major is offered by the departments of Anthropology, Economics, Ethnic Studies, Geography, Political Science, History, and Sociology. It serves both as an interdisciplinary major for the Bachelor of Arts degree and to provide subject matter preparation for the Single Subject Teaching Credential in Social Science.

To qualify for a teaching credential, candidates must also complete an approved Professional Education Program and other requirements as specified by the California Commission on Teacher Credentialing. California faces a shortage of qualified teachers. Over the next decade we will need to find 300,000 people to take on the challenging but rewarding job of teaching in California schools.

Since the Social Science program involves work in several departments, and since special rules on overlap with General Education apply to this program, advising is essential to the efficient completion of the program.

Note: On June 1, 2006, the California Commission on Teacher Credentialing approved the program of subject matter preparation for the Single Subject Teaching credential in Social Science submitted by California State University, Sacramento.

Special Features
- The program also provides an opportunity for students to build on the foundation of general education and become familiar with several areas in the Social Sciences. A Social Science major is excellent background for advanced graduate studies and in professional careers. Non-credential students need not complete the pre-credential professional education coursework, and elective courses are available to complete the 120-unit Bachelor of Arts degree.
- As an interdisciplinary major, the Social Science program works closely with the Career Center and the California Interns Network to support internship opportunities that will enhance future professional development and employment.
- Through the Social Science major, graduates will also earn a 24 unit minor in History. Formal submission of a Minor Degree Application is required.
- Social Science majors can also earn a minor in other disciplines including Economics, Ethnic Studies, Geography, Political Science and more. Additional specialized advising is required in these cases.
- Graduates of the Social Science program have distinguished leadership careers in government service, public policy, politics, business, K-12, education, higher education administration, law, law enforcement, counseling, community service, and military service. Several Social Science majors (including two former mayors of Sacramento) are inductees into the College of Social Science and Interdisciplinary Studies Academy of Distinction and Honor.
- The Social Science program works closely with the Career Center on campus to provide proactive and comprehensive career services to students through: career development, experiential learning, on-campus recruitment, and employer relations.

Career Possibilities
Middle School or High School Teacher of Civics, Economics, Geography, and History · Politics · Government and Civil Service · Lobbyist · Attorney · Law Enforcement · Business · Public Relations · Human Relations/Personnel Specialist · Journalist · Military Service · Community Service · Graduate School

Contact Information
Kristin Van Gaasbeck, Program Director
Lassen Hall 2008
(916) 278-6342
www.csus.edu/socsci/ (http://www.csus.edu/socsci/)

SSCI 193. Integrating History and Social Science. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Spring only
Capstone seminar that serves as a bridge between academic preparation and entry into a professional teacher credential program. Students will examine social science-history in the State curriculum framework, reflect on subject matter preparation, focus on middle and high school social science teaching and learning, investigate and evaluate resources pertinent to instruction, and explore current issues in education.

SSCI 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of instructor or Department chair.
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Requires permission of instructor and department chair.
Credit/No Credit

BA in Social Science
Units required for Major: 63
Units required for Subject Matter Program: 69-74
Total units required for BA: 120

Program Description
The Social Science major is offered by the departments of Anthropology, Economics, Ethnic Studies, Geography, Government, History, Sociology, and Women’s and Gender Studies. It serves both as an interdisciplinary major for the Bachelor of Arts degree and to provide subject matter preparation for the Single Subject Teaching Credential in Social Science.

Minimum Grade Requirement
Minimum grade of “C-” is required in all courses completed toward the Social Science major and pre-credential requirements.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>ECON 1A</td>
<td>Introduction to Macroeconomic Analysis 1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>Introduction to Microeconomic Analysis 1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 101</td>
<td>History of Economic Thought</td>
<td>3</td>
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<tr>
<td>ECON 113</td>
<td>Economic History of the United States</td>
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<tr>
<td>ECON 120</td>
<td>Economics and Environmental Degradation</td>
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Choose one of the following:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>ECON 101</td>
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<td>3</td>
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<tr>
<td>ECON 113</td>
<td>Economic History of the United States</td>
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<tr>
<td>ECON 120</td>
<td>Economics and Environmental Degradation</td>
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### Electives (15 Units)

Select one of the following (National Perspective, History):

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<tr>
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<th>Units</th>
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<tbody>
<tr>
<td>HIST 150</td>
<td>Colonial America</td>
<td>3</td>
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<tr>
<td>HIST 151</td>
<td>The Age of the American Revolution</td>
<td>3</td>
</tr>
<tr>
<td>HIST 152</td>
<td>Young Republic, 1790-1840</td>
<td>3</td>
</tr>
<tr>
<td>HIST 153</td>
<td>Civil War and Reconstruction, 1840-1890</td>
<td>3</td>
</tr>
<tr>
<td>HIST 154</td>
<td>20th Century United States, 1890-1940</td>
<td>3</td>
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<tr>
<td>HIST 155</td>
<td>20th Century United States, 1941-Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 156</td>
<td>The Sixties: Years of Hope, Days of Rage</td>
<td>3</td>
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<tr>
<td>HIST 157</td>
<td>History of International Relations in the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 159</td>
<td>History of US Foreign Relations</td>
<td>3</td>
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<tr>
<td>HIST 160</td>
<td>The United States in Vietnam, 1940-1975</td>
<td>3</td>
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<td>HIST 162</td>
<td>Social History of the United States</td>
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<td>HIST 163</td>
<td>The City in US History</td>
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<td>HIST 167</td>
<td>History of American Women</td>
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<td>HIST/HRS 168</td>
<td>Images Of America</td>
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<tr>
<td>HIST 173</td>
<td>The History of the Civil Rights Movement: From Reconciliation to Deconstruction, 1865-Present</td>
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<tr>
<td>HIST 177</td>
<td>The African-American Experience, 1603-Present</td>
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<tr>
<td>HIST 178</td>
<td>Mexican-American History</td>
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Select one of the following (National Perspective, other Social Sciences):

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<tr>
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<td>ANTH 101</td>
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<td>ANTH 135</td>
<td>Indians of North America</td>
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<td>ECON 152</td>
<td>Economics of Education</td>
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<td>ECON 181</td>
<td>Economics of Racism</td>
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<td>ECON 184</td>
<td>Women and the Economy</td>
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<td>ECON 189</td>
<td>Economics at the Movies</td>
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<td>ETHN 100</td>
<td>Ethnic America</td>
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<td>ETHN 131</td>
<td>La Raza Studies</td>
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<tr>
<td>ETHN 140</td>
<td>Native American Experience</td>
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<td>ETHN 170</td>
<td>Pan African Studies</td>
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<td>POLS 112</td>
<td>Current Political Thought</td>
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<tr>
<td>POLS 153</td>
<td>The American Presidency</td>
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<td>POLS 155</td>
<td>The Legislative Process</td>
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<td>Politics of the Underrepresented</td>
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<td>Social Inequalities</td>
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<tr>
<td>WGS 110</td>
<td>Introduction to Women's Movements in the United States</td>
<td>3</td>
</tr>
<tr>
<td>WGS 133</td>
<td>Gender &amp; Health</td>
<td>1</td>
</tr>
<tr>
<td>WGS 136</td>
<td>Gender, Race, and Class</td>
<td>1</td>
</tr>
<tr>
<td>WGS 137</td>
<td>Women Of Color</td>
<td>1</td>
</tr>
<tr>
<td>WGS 150</td>
<td>Introduction to Queer and Trans Studies</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one of the following (World Perspectives, History):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 109</td>
<td>History of Modern Greece</td>
<td>1</td>
</tr>
<tr>
<td>HIST 103</td>
<td>Mediterranean Europe: From the Renaissance to the European Union</td>
<td>1</td>
</tr>
<tr>
<td>HIST 117</td>
<td>Europe, 1815-1914</td>
<td>3</td>
</tr>
<tr>
<td>HIST 118A</td>
<td>World War I: Causes, Conduct, Consequences</td>
<td>3</td>
</tr>
<tr>
<td>HIST 118B</td>
<td>World War II: Causes, Conduct, Consequences</td>
<td>3</td>
</tr>
<tr>
<td>HIST 119</td>
<td>Europe Since 1945</td>
<td>3</td>
</tr>
<tr>
<td>HIST 122B</td>
<td>History of Women in Western Civilization, Renaissance-Present</td>
<td>1</td>
</tr>
<tr>
<td>HIST 125</td>
<td>Modern Germany, 1806-Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 128C</td>
<td>British History, 1714-Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 129C</td>
<td>Twentieth Century Russia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 130</td>
<td>The Fall Of Communism</td>
<td>3</td>
</tr>
<tr>
<td>HIST 135A</td>
<td>History Of Mexico To 1910</td>
<td>3</td>
</tr>
<tr>
<td>HIST 135B</td>
<td>Revolutionary and Modern Mexico</td>
<td>3</td>
</tr>
<tr>
<td>HIST 138A</td>
<td>Colonial Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 138B</td>
<td>Modern and Contemporary Latin America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 141</td>
<td>History of Africa Since 1800</td>
<td>3</td>
</tr>
<tr>
<td>HIST 142</td>
<td>History of Women in Africa</td>
<td>3</td>
</tr>
<tr>
<td>HIST 143B</td>
<td>The Modern Middle East</td>
<td>3</td>
</tr>
<tr>
<td>HIST 143C</td>
<td>Ottoman State and Society</td>
<td>3</td>
</tr>
<tr>
<td>HIST 143D</td>
<td>The Arab-Israeli Conflict</td>
<td>3</td>
</tr>
<tr>
<td>HIST 146B</td>
<td>Modern Japan, 1800-present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 148B</td>
<td>China, 1600 to Present</td>
<td>3</td>
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</tbody>
</table>

Select one of the following (World Perspectives, other Social Sciences):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 102</td>
<td>The Nature of Culture</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 121</td>
<td>Archaeology of Mexico</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 143</td>
<td>Culture and Society in Mexico</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 145</td>
<td>Peoples and Cultures of Latin America</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 149</td>
<td>Cultures of South Asia</td>
<td>1</td>
</tr>
<tr>
<td>ECON 112</td>
<td>European Economic History</td>
<td>1</td>
</tr>
<tr>
<td>ECON 190</td>
<td>International Trade</td>
<td>1</td>
</tr>
<tr>
<td>ECON 192</td>
<td>International Finance</td>
<td>1</td>
</tr>
<tr>
<td>ECON 193</td>
<td>Development Economics</td>
<td>1</td>
</tr>
<tr>
<td>ECON 197</td>
<td>Geography Of Africa</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 127</td>
<td>Geography Of Europe</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 128</td>
<td>Geography Of Europe</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 145</td>
<td>Population Geography</td>
<td>1</td>
</tr>
<tr>
<td>POLS 130</td>
<td>International Politics</td>
<td>1</td>
</tr>
<tr>
<td>POLS 142</td>
<td>Government and Politics in Africa</td>
<td>1</td>
</tr>
</tbody>
</table>
POLS 144  European Politics
POLS 147  Latin American Government and Politics 1
POLS 148  Governments and Politics in the Middle East 1
SOC 160  Asian Societies 1
SOC 162  Middle Eastern Societies and Culture 1
SOC 164  Sociology of Globalization 1
WGS 121  Women Of The Middle East
WGS 147  Women's Global Issues
WGS 166  Gender and Politics

Select one of the following (State Perspective):

ANTH 128  Indians of California
ECON 114  The California Economy
ETHN 110  The Asian American Experience 1
ETHN 130  Chicano/Mexican-American Experience 1
GEOG 131  California
HIST 185  California Indian History
SOC 118  Chicano Community 1

Total Units 63

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 Students may also take ECON 181, ECON 184, or ECON 189 to satisfy this requirement. If a student chooses to take one of these courses to satisfy the core requirements, they may not double count the same course toward major elective requirements.

General Education Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 - Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A2 - Written Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>A3 - Critical Thinking</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (10 Units)</td>
<td></td>
<td></td>
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<tr>
<td>B1 - Physical Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B2 - Life Forms</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following:</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>B1, B2 or B5)</td>
<td></td>
<td></td>
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<tr>
<td>B4 - Math Concepts</td>
<td>3</td>
<td></td>
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<tr>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>0</td>
<td></td>
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<tr>
<td>Area C: Arts and Humanities (6 Units)</td>
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<tr>
<td>C1 - Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C2 - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C1/C2 - Area C Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D: The Individual and Society</td>
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<tr>
<td>Area D Course</td>
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<tr>
<td>Area D Course</td>
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</tr>
<tr>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
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</tr>
<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
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<td></td>
</tr>
<tr>
<td>Area E Course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Area F Course

Total Units 28

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Students may select an electives within the major that satisfy this upper division GE area.

3 Required in Major; also satisfies GE.

Graduation Requirements 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (3 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. History</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Writing Intensive (WI)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (9 Units)</td>
<td></td>
<td></td>
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<tr>
<td>English Composition II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Race and Ethnicity in American Society (RE)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement.

3 Students may select an elective within the major that is a Writing Intensive course.

4 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or better required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-proficiency.html

Sociology

College of Social Sciences and Interdisciplinary Studies

Program Description

Sociology is the analysis of the social lives of people, groups, and societies. A sociological perspective helps students understand the relationship between individuals and society, analyze the impact of larger social structures, and become aware of ways to achieve desired collective ends.

Sociology faculty have expertise in the following areas: family and marriage, gender study, social psychology, migration and immigration,
ethnic and race relations, inequalities, human sexuality, environment, sports, popular culture, political sociology, medical sociology, sociology of education, and crime and deviance.

Sociology graduates are hired by community-based organizations, government agencies, hospital and healthcare organizations, social services departments, the criminal justice system, school systems, private businesses, and research firms.

Degree Programs

BA in Sociology (p. 1094)

MA in Sociology (p. 1095)

Special Features

• Sociology students are encouraged to become involved in the internship program. Though it is not mandatory, internships provide an excellent way to explore the real world of sociology outside of the classroom.

• The Sociology Club’s mission is to promote the professional, intellectual, and personal growth of our student members. Alpha Kappa Delta (AKD) is an international honor society for Sociology majors.

• Majors learn statistical analysis of social data, computer processing of data and the SPSS computer program. Students are encouraged to learn several computer languages and the use of census data for social and regional planning. Student research projects may be selected for presentation in programs throughout the state.

• Thematic areas of studies include ethnic and race relation, immigration, crime and deviance, social inequality, socialization and interaction, globalization, and social change.

Career Possibilities

Public Health Statistician · Demographer · Recreational Specialist · Social Worker · Urban Planner · Correctional Counselor · Youth Counselor · Criminologist · Social Ecologist · Public Relations Consultant · Interviewer/Researcher · Statistician · Population Analyst · Public Opinion Analyst · Migration Specialist · Parole/Probation Officer · Employment Counselor · Teacher · Writer/Journalist · Management Analyst · Budget Analyst · Government Research Analyst

Contact Information

Amy Liu, Department Chair
Amador Hall 450A
(916) 278-6522
FAX (916) 278-6281
soc-sc@csus.edu
www.csus.edu/soc (http://www.csus.edu/soc/)

Faculty

BARAJAS, MANUEL
BERG, ELLEN
BIANCHI, PAUL
BROOKS, JACQUELINE D.
BURKE, PAUL

CAPERELLO, NICOLETTA
CARNEIRO, MARK
CARRIGAN, JACKIE A.
CAVINESS, COURTNEY
DJAMBA, YANYI
DUCKETT, DANIELLE
DURDEN, MICHELLE
FITZGERALD, TINA
GONZALEZ, GABRIELLE
GOSDIN, MELISSA
IDA, AYA KIMURA
LIU, AMY
LUNA-GORDINIER, ANNE
MENARD, NATHEN
MORRIS, TRISH
NINH, THIEN-HUONG
PAPPAS, CHRISTOPHER
PEREZ MARTIN, AMALIA
RODRIGUEZ, TOMAS
RUIZ, MIGUEL
SARABIA, HEIDY
SHIGIHARA, AMANDA
TELLO, BERNADETTE
VARESIO, ROSEMARY
WEHR, KEVIN
WELKLEY, DEBRA
WILLIAMS, ALTON
YONEMURA, AYANNA

SOC 1. Principles of Sociology.

3 Units

General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to the field of sociology; its basic concepts and principles; the analysis and explanation of culture, personality, social institutions, social change, population, social processes and collective behavior.
SOC 2.  You, Sociology and the University.  
Term Typically Offered: Fall, Spring

This course is an introduction for students to the campus, campus resources, and the department of Sociology at Sac State. The goal is to connect students to information and resources to help them be successful as students in the Sociology program at CSUS, as well as clarify the process for success within, throughout, and beyond the Sociology program. This course is for all sociology majors. The class will be taught as a hybrid class.

Note: Required to be taken during first semester students changes or adds the major.

Credit/No Credit

General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to major social problems in the U.S., with an emphasis on systemic problems, such as economic, racism and sexism. Problems in major social institutions such as the family, social services, criminal justice and the environment are also addressed.

Term Typically Offered: Fall, Spring

An exploration of social issues that contemporary families face every day with an integration of the life course perspective and sociopsychological viewpoint. Issues covered may include varying family constellations, mate selection, intimacy, communication, adjustment, cohesion, attachment, aging, foster care and adoption, gender, race/ethnic/cultural influences, social stratification, family/partner violence, health, and social policy.

General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Introduces basic steps in the research process and/or basic steps in critically evaluating discussions on social issues. Students are taught to recognize common errors through the analysis of non-technical applied research and/or through newspapers and sociological articles about social issues and problems. Emphasizes the logical steps involved in thinking critically about social research and/or social problems such as quality of operational definitions, weaknesses in research design, sampling errors, value assumptions, logical consistency between premises and conclusions, and the structure of arguments.

General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduces the concepts utilized by sociologists in the analysis of controversial issues in crime and social control, e.g., norms, roles, subcultures, labeling, social conflict, social stratification, racism, sexism, etc. Particular attention is paid to sources of data and trends over time. Issues covered include, but are not limited to: capital punishment, drugs and drug policy, domestic violence, abortion, driving under the influence, police use of deadly force, private prisons and juvenile justice reform.

SOC 101.  Introduction to Statistics for Sociologists.  
Prerequisite(s): Sociology majors only
Term Typically Offered: Fall, Spring, Summer

Provides students with an overall view of the role and techniques of statistics in the presentation and interpretation of social science data. Lectures emphasize descriptive statistics: measures of central tendency and variability, and association and correlation. Introduction is given to statistical inference: sampling distributions, hypothesis-testing, and estimation. Lab sessions provide demonstrations and training in the practical application of concepts and techniques dealt with in lectures. Students learn to use the computer as an aid in data processing and analysis.

SOC 101X.  Collaborative Practice for SOC 101.  
Prerequisite(s): SOC 101.
Term Typically Offered: Fall, Spring

SOC 101X Collaborative Practice for SOC 101. Discussion, 1 hour. Students concurrently enrolled in SOC 101 work collaboratively on, and discuss, problem sets designed by the SOC 101 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student understanding and success in SOC 101.

Credit/No Credit

Prerequisite(s): SOC 101; Sociology majors only
Term Typically Offered: Fall, Spring, Summer

Students will be introduced to the basic steps in research; problem definition, research design, sampling, data collection methods, and analysis. Laboratory exercises reinforce methodological processes, including finding and evaluating existing research studies, operationalizing concepts, developing questionnaires, and analyzing primary data. Students will learn how to process and analyze both qualitative and quantitative data, including analytic induction, manipulation of computerized data files, bivariate and multivariate analysis, table construction, and preparation of written research reports. Lab exercises reinforce computer and statistical skills.

SOC 103.  Advanced Sociological Analysis.  
Prerequisite(s): SOC 101 and SOC 102
Term Typically Offered: Fall, Spring

An advanced course in research design and analysis. Introduces students to advanced data analysis techniques and how to use them to investigate social problems and issues. Students will build on the knowledge they have accumulated in previous courses in sociological research methods and theory to design and complete a research project. Specific methodological strategies taught will vary, and could include regression analysis, ethnography, comparative-historical methods, qualitative interviewing, evaluation research and longitudinal survey analysis.

Note: May be repeated for credit

SOC 106.  Births, Deaths and Borders.  
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Studies population including growth and decline, fertility and mortality trends, migration, human ecology, and the interrelationship of population and socioeconomic change.
SOC 110. Urban Life and Problems.  3 Units
Term Typically Offered: Fall, Spring

Takes a political economic approach to urban development, with special emphasis on the roles played by various social groups and institutions. Particular attention is given to the effects of urban growth, oppositional movements to growth and the global developments that affect urban conditions.

SOC 118. Chicano Community.  3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Analyses the institutions, norms, values, and traditions of the Chicano community. Included is an examination of the Chicano community's progress in mainstream American life with attention to the effect of ethnocentrism, racism and class.

SOC 120. Ethnic and Race Relations.  3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Analyzes relations among various racial, religious, nationality, and gender groups as they interact with racism, ethnocentrism and class in the U.S. and the world.

SOC 122. Immigration Studies.  3 Units
Term Typically Offered: Fall, Spring

Examines the social phenomena of labor migration, immigration, and transnationalism, and places their origins and development in the context of political-economic national inequalities. Advances an understanding of why societies experience migration, immigration, and transnationalism, and evaluates competing and complementary theoretical frameworks explaining these migratory processes, particularly as they relate to the U.S. Special attention will be given to race, gender, and class relations as impacted by labor migration processes.

SOC 123. Black Studies in Sociology.  3 Units
Term Typically Offered: Fall, Spring

Introduces students to the sociological analysis of Black American life in the U.S. - the complex phenomena of Black issues, emerging theories of race, and the cumulative scholarship on black identity, experience, socio-economic status, and social organization. Focus is on the original contributions of social scientists to Black Studies in Sociology.

SOC 124. Social Justice in Interdisciplinary Perspective.  3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature and forms of social justice and injustice. Key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies are addressed. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academe and social activism in achieving social justice. Cross listed as ANTH 130, ID 124, ENVS 124, ETHN 124 and FACS 124. Only one may be counted for credit.

SOC 125. Social Inequalities.  3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring

Examination of the ways race, class and gender, as well as the intersection of all three, affect the distribution of valued resources in a society. Other social inequalities such as age, sexual orientation, or nationality, etc. may also be examined. Attention is given to struggles to change or preserve economic and political inequalities.

SOC 126. Sociology of Gender.  3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines how gender designation of "male" and "female" impacts an individual's life; explores the social construction of masculinity and femininity in the family, school, workplace, everyday interactions, and within racialized and colonized societies; studies the consequences of gender difference and inequality that result in violence and abuse, sexual harassment, hate crimes, wage differentials and unequal opportunities.

SOC 127. Men, Masculinity and Society.  3 Units
Term Typically Offered: Fall, Spring

Introduces students to the field of men and masculinity. Examines the construction of masculinity in sports, family, work and other social relationships, showing how it affects and is affected by people, institutions and society. Explores the diverse experiences based on race, class, occupation, physical ability and sexuality, and the implications for people from such diverse groups.

SOC 128. Sociology Of Sexuality.  3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring

Studies sexuality including historical and cultural differences in sexual attitudes, beliefs and behaviors. Also examines the mutual influence of sexuality and social institutions, such as the family, the economy, politics and religion.

SOC 129. Social Change and Migration in Latin America.  3 Units
Term Typically Offered: Fall, Spring, Summer

This course examines the social, political, and economic changes many societies underwent in Latin America throughout the 20th and 21st century, the role the U.S. played in shaping these changes, how this past has shaped today's U.S.-Latin American relations, and how this interconnectedness has shaped migration to the U.S. Focus will be on specific case studies and using a sociological perspective to study and understand these social changes globally and locally.

SOC 130. Political Sociology.  3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring

Analyzes political order and change from the viewpoint of cultural values and the institutional structure of societies. Examines group behavior patterns related to ideology, elites, masses, classes, movements, parties, and other power groups. Surveys differing theories and methodologies for the study of political processes across cultures and societies.
SOC 133.  Sport in a Global Perspective.  3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive
Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Examines sport in a global context, focusing on the dynamic nature of sports in response to changes in society. Addresses the effect sport has on both the society and the individual, from socialization to nationalism. Focuses on both participants (youth, amateurs, professionals) and spectators (parents, fans, etc.) at all levels of involvement, from community to international competition. Highlights cross-cultural differences in the relationships between sport and other social institutions such as government, corporations, and the media.

SOC 134.  Sociology of Film.  3 Units
Term Typically Offered: Fall, Spring

Introduces the "Sociological Imagination" by linking the personal histories found in films to larger social structures. The evolution of important contemporary global and domestic social issues is discussed by analyzing the sociological content of major motion pictures. The socio-historical development of the American film industry is also examined to explore its ideological role in challenging and perpetuating various forms of class, race, and gender discrimination.

SOC 135.  Sociology of Popular Culture.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Analyzes social processes that produce popular culture by contrasting interrelationships between institutional power structures and collective behavior. Examines theories of popular culture, mass movements, and individualism; social change, cultural hegemony, sub-cultures, and organizational studies.

SOC 136.  Social Movements.  3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring

Analyzes old and new social movements — pre-political and political, cultural and identity types — class, labor, feminist, ethnic, environmental, left and right. Challenges by movements to institutional order. Surveys differing theories and methodologies for the study of movements and degree of change (reform, revolutionary) across cultures and societies.

SOC 137.  Sociology of Science.  3 Units
Term Typically Offered: Fall, Spring

Examines paradigm changes of science in society and how views of science and technology are socially constructed. Analyzes the representations of scientists, scientific inquiry, and technological innovation. Explores the ways in which science has driven social change, and vice-versa.

SOC 138.  Environmental Sociology.  3 Units
Term Typically Offered: Fall, Spring

Studies human society, the natural environment, and their mutual interactions. Examines environmental sociology at several levels, from the micro level of individual communities to the meso level of government policies to macro theoretical considerations. Analysis of environmental issues in a global context also included.

SOC 139.  Animals in Society.  3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines social relationships between humans and animals as pets, companions, workers, entertainers, and food. Analyzes the representations of animals. Studies our relationships with animals both on the level of social groups and as individuals. Applies sociological approaches to the study of human-animal relationships, including the social movements around animal rights.

SOC 140.  Sociology of Education.  3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring

Examines the organization and functions of educational institutions; the rise of mass education and changes in educational systems to the present; the role of teachers, parents, and schools in education; the impact of gender, race, and class on educational outcomes and processes.

SOC 144.  Sociology of Health and Illness.  3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring

Examines the social contexts of health, illness, and medical care. Emphasizes the debates and contrasting perspectives that characterize the sociological study of health and illness. Topics include the social, global, environmental, and occupational factors influencing health and illness; the politics surrounding physical and mental illness; the patient’s perspective on illness; ethical issues in medicine as they relate to medical technology; and health care reform. The influence of health status on identity and interaction will also be addressed.

SOC 146.  Sociology of Aging.  3 Units
Term Typically Offered: Fall, Spring

Analyzes the process of aging in the context of social structure and processes. Specifically, it deals with such issues as the age structure of society, social values and norms that define the aged, social stratification and aging, social institutions and the aged, theoretical and methodological issues in social gerontology.

SOC 150.  Social Psychology.  3 Units
Term Typically Offered: Fall, Spring

Examines major principles governing face to face interaction and their application in understanding the student’s own experience: creating and preserving meaning, “realities” and selves through dramaturgy, negotiation and power; the relationship between status and intimacy; the impact of status resources (such as race and gender) on the status assignment process; the self concept; the role of emotions in social life.

SOC 155.  Criminology.  3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines social dimensions — causes and characteristics — of adult crime and deviant behavior in American society. Makes some international comparisons. Police, courts and prisons are examined. Special attention is given to current issues in crime and deviance.
SOC 156. Delinquency.
**General Education Area/Graduation Requirement:** GE AREA D
**Term Typically Offered:** Fall, Spring

Examines social determinants of juvenile delinquency, including family, urban conditions, social-psychological and sociological factors. Analyzes the juvenile justice system, including law enforcement, the courts and community treatment programs.

**Term Typically Offered:** Fall, Spring

Sociologically analyzes American courts and prisons from prosecutorial intake through sentencing and incarceration. Emphasis is on the role of social factors (in particular race, class and gender) in decision-making practices at each stage of processing. Topics will include, but are not limited to: preventive detention, prosecutorial intake, plea-bargaining, jury selection, pre-sentence investigation reports, sentencing, and legal reconstruction of the American prison in the modern era.

SOC 158. Sociology of Deviance.
**Term Typically Offered:** Fall, Spring

Introduces students to the history of attempts to define and explain deviant behavior; explains social conditions and processes associated with careers of deviants; examines relationship of deviance to problems of social control.

SOC 160. Asian Societies.
**General Education Area/Graduation Requirement:** Humanities (Area C2)
**Term Typically Offered:** Fall, Spring

Cross-cultural study focuses on Japanese and Chinese societies and cultures and their influences on other Asian developments. Emphasizes their distinctive institutions, norms, values, and traditions in relation to contemporary social, economic, and political processes.

SOC 162. Middle Eastern Societies and Culture.
**General Education Area/Graduation Requirement:** Humanities (Area C2)
**Term Typically Offered:** Fall, Spring

Discusses the fundamental aspects of Middle East Societies covering such topics as population, family, women, patterns of living, social stratification, education, economic development, politics and armies in the Middle East.

SOC 163. Conflict, Oil and Development in the Middle East.
**General Education Area/Graduation Requirement:** GE AREA D
**Term Typically Offered:** Fall, Spring

Examines in detail the major sources of conflict in the Middle East with special reference to the Arab-Israeli conflict, the arms buildup in the Arabian-Persian Gulf, energy crisis and the multi-national aspect of Middle East oil. Attempts to discuss the impact of these conflicts on the processes of social and economic development.

**General Education Area/Graduation Requirement:** GE AREA D
**Term Typically Offered:** Fall, Spring

Examines globalization and its effect on local societies, including the impact of globalization on local labor and work practices, the social organization of local firms and business enterprises, local social structures such as gender, class, race/ethnicity, and local social patterns such as consumption and leisure activities.

SOC 166. The Family.
**Term Typically Offered:** Fall, Spring

Introduces students to the sociology of the family including an examination of the family in various cultures with the emphasis on the American family in all its many forms.

SOC 168. Self and Society.
**Prerequisite(s):** GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
**General Education Area/Graduation Requirement:** Writing Intensive Graduation Requirement (WI)
**Term Typically Offered:** Fall, Spring

Examines the relationship between the individual and society: social interaction, human development, behavior in groups and collectivities, personality and social structure. Theories and empirical studies.

SOC 169. Changing American Family.
**Term Typically Offered:** Spring only

Analyzes the American family, past, present, and future, focusing on explanation and consequences of changes in child-bearing, courtship, marriage, and the interrelationships between the individual and the family and society. Focuses on connecting course material to real world organizations and programs in the community that are associated with or linked to families. Per week: lecture two hours; fieldwork in the community two to three hours.

SOC 170. Sociology of Children and Adolescents.
**Term Typically Offered:** Fall, Spring

Introduces students to the sociology of childhood and adolescence, focusing on theoretical foundations, methodological challenges, and empirical examination of youth from preschool through high school. Focuses on peer relations within wider contexts shaped by gender, race, and social class.

SOC 171. Sociology of Religion.
**Term Typically Offered:** Fall, Spring

Acquaints students with the sociological foundations of religion in society. Emphasis is on the history, development and overall structure of the institution of religion, its relation to social, ethnic and class-based groups and its effect on society in general, and how its social development in America differs from other cultures.

SOC 175. Work and Occupations.
**Term Typically Offered:** Fall, Spring

Examines the social organization of work and economic organization; the rise of industrial society and changes in workplace relations to the present; the role of technology and ideology in the workplace; industrial reforms and alternative forms of economic organization.
SOC 176. Labor and the American Social Structure. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive
Term Typically Offered: Fall, Spring
Introduction to the study of labor in the U.S., including the nature of work, characteristics of the work force, and an overview of contemporary labor and industrial relations systems within the framework of current U.S. economic and political developments.
Cross Listed: LBR 100; only one may be counted for credit.

SOC 185. Bullying as a Social Experience. 3 Units
Term Typically Offered: Fall, Spring
This course educates students on bullying as a social experience, introducing how social forces, environment and context impact the culture of bullying. Students will develop an understanding about how programs and policies impact bullying rates based on social theoretical perspective. Students will gain a better understanding of how research is related to intervention and prevention practices. Then, from a whole school approach, using the resources available to the school, students will implement different components of an anti-bullying program at a school site.

SOC 190. Sociology of Small Groups. 3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring
Examines social structure and social determinants of behavior in small groups; socialization, social control, social change, leadership, social ranking, social conflict and morale.

SOC 191. Culminating Course in Sociology. 1 Unit
Prerequisite(s): 85 units need to be completed prior to start of the course.
Term Typically Offered: Fall, Spring
The course offers Sociology students a culminating experience that has students reflect on their experience as a student in the sociology major, their success in the learning goals and outcomes of the Sociology program, and ultimately engage with their future career goals and their preparation to reach them. This class will be taught fully online.
Note: Students are expected to take this class during their second to last semester (the penultimate semester).
Credit/No Credit

SOC 192. Sociological Theory. 3 Units
Prerequisite(s): SOC 1.
Term Typically Offered: Fall, Spring
Surveys the history of sociological theory from Comte to the present.

SOC 193A. Mentoring in Sociology. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Provides opportunity for freshman, sophomores, and juniors majoring in sociology to be mentored for improved student success and retention. Students receive peer mentoring to facilitate closer integration into campus community through participation in events, organizations, and conferences sponsored by the sociology department. Students learn how to build productive relationships with professors and receive timely advising for better retention and success rates. Course does not count toward sociology major but toward degree requirements.
Note: May be repeated twice for credit; Three times with exception as determined by the instructor.
Credit/No Credit

SOC 193B. Peer Mentoring in Sociology. 2 Units
Prerequisite(s): One year of residency at Sac State; 2.8 GPA required; Open only to Sociology majors.
Term Typically Offered: Fall, Spring
Provides opportunities for junior and senior sociology majors to mentor and gain practical out-of-class experience. Students learn the principles of mentoring and contribute to student retention and success and close the retention gap. Course provides practical orientation and guidance for the best practices in mentoring that contribute to a positive campus culture.
Note: May be repeated twice for credit; Three times with exception to be determined by the instructor.
Credit/No Credit

SOC 194. Special Topics in Sociology. 3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring
Examines contemporary issues and social developments within the research specialization of department faculty. Provides a forum to discuss and evaluate controversies and advancements in the discipline of sociology, including theory and methodology.

SOC 195. Internship and Fieldwork. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Supervised internship and fieldwork experience in a variety of settings: (1) public or private agencies in the Sacramento community, and (2) ethnic and/or minority communities. Supervision is provided by authorized persons in the field and collaborative supervision is provided by sociology faculty at Sacramento State.
Credit/No Credit
SOC 198.  Linking Statistics Education and Practice.  1 - 2 Units
Prerequisite(s): SOC 101 and instructor permission
Term Typically Offered: Fall, Spring
Advanced exploration of the scholarship of learning as applied to sociological methods and/or data analysis. Students will work independently on an applied semester project, but will also attend agreed upon number of computer lab hours each week and engage in course activities with a focus on how to best structure learning opportunities and apply content.
Note: Admission requires approval of professor and Department Chair. No more than 3 units from SOC 195, SOC 198, or SOC 199 combined may be applied to the Sociology upper division major requirement.

SOC 199.  Individual Study Projects.  1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading; open only to students who appear competent to carry on individual work. Admission requires approval of the sponsor of the project and the Department Chair.
Credit/No Credit

SOC 200.  Orientation and Writing for Sociological Graduate Studies.  3 Units
Prerequisite(s): Admission to MA in Sociology program.
Term Typically Offered: Fall only
This course introduces students to our graduate program and provides students with insights into how the profession works. Students will learn about campus and departmental resources that will aid them in their studies. This class fulfills the requirements for the required Graduate Writing Intensive Course and will train students in the skills needed for successfully writing sociological papers at a graduate level. Students will also be introduced to department faculty who will share their research interests and writing strategies.

SOC 200A.  Orientation to Graduate Studies in Sociology.  1 Unit
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring
Describes our graduate program, clearly explains our requirements and standards for successful completion of the M.A., shows students how the profession works and how to work in the profession (public submissions, conference presentations, job searches), and explains how to get through the program in a timely manner with a strong thesis. We will discuss Ph.D. programs and the application process, job opportunities and the role of professional sociologists outside academe.

SOC 200B.  Thesis Prospectus/Project Preparation Seminar.  2 Units
Prerequisite(s): Completion of a minimum of 6 hours of graduate study. Completion of (or concurrent enrollment in) SOC 214 is recommended.
Term Typically Offered: Fall, Spring
Provides students with faculty and peer support for the process of developing a draft of a thesis prospectus or project proposal. This includes the clarification of expectations, familiarization with research resources, and support provided through feedback in a structured environment.
Credit/No Credit

SOC 210.  Urban Sociology.  3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring
Critically examines major theories, research, and debates in the field of urban sociology, including social ecology, Marxist, subcultural, and postmodernist perspectives. Course materials will be framed within two main themes; the dynamics of cooperation and conflict under urban conditions, and the tension between private interests and public life in urban settings. Methodological emphasis will be on case studies, ethnographic, and social historical analysis.

SOC 214.  Research Methods.  3 Units
Term Typically Offered: Fall, Spring
Deals specifically with such issues as the role of research within the discipline, the ethics of conducting research, the rationale behind field and survey methods, the validity and reliability of data collected through these methods and alternative approaches to data collection.
Note: Open to classified graduate students in sociology, all others by instructor permission only; Graduate Writing Intensive

SOC 215.  Data Analysis.  3 Units
Prerequisite(s): SOC 101 or equivalent, or instructor permission.
Term Typically Offered: Fall, Spring
Introduces techniques used to analyze sociological data. Emphasis will be placed on the basic concepts of quantitative models used to explore causality, along with an introduction to software to carry out multivariate analysis. Qualitative analytical techniques and software will also be introduced.

SOC 220.  Seminar: Social Change.  3 Units
Prerequisite(s): Classified graduate status in sociology; all others by instructor permission only.
Term Typically Offered: Fall, Spring
Course deals with main theoretical orientations in sociology representing radical, liberal and conservative viewpoints on social change. Examines the historical context of events that affected Western countries such as the Industrial Revolution, French Revolution, and the emergence of nationalism and human rights. Course approach is theoretical, historical and global.

SOC 222.  Immigration and Coloniality.  3 Units
Term Typically Offered: Fall, Spring
This course focuses on human migration and its modern origins and development in a global context of political-economic inequalities. The course offers historical, comparative, and theoretical perspectives on immigration and incorporation of immigrants to the United States. It examines competing and complementary theories on migration, and assesses their explanatory power on the basis of historical, empirical, and standpoint evidence. This graduate elective course aligns with various program learning objectives including critical thinking, intercultural knowledge and competency; and inquiry and analysis.

SOC 225.  Social Stratification.  3 Units
Prerequisite(s): Classified graduate status in sociology; all others by instructor permission only.
Term Typically Offered: Fall, Spring
Analyzes contemporary issues in stratification literature including class, status, power, sex/gender, identity, ethnicity, mobility, equality/inequality. Discusses differing theories, methodologies, and controversies according to student interests.
**SOC 226. Sociology of Gender.** 3 Units
Term Typically Offered: Fall, Spring

Intended to introduce graduate students to diverse theories that explain gender relations in contemporary society. Provides a critical perspective on how we construct men’s and women’s identities and how the consequences of such a construction affect institutions, culture and society. Broken up in four sections: origins of gender inequality and issues surrounding research, theoretical perspectives, marginalized groups, and gendered issues in society.

**SOC 230. Seminar: Social Organization.** 3 Units
Prerequisite(s): Classified graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Analyzes and critiques institutional structure. Studies shared understanding in groups, corporations, communities, institutions or societies and their hierarchical order.

**SOC 235. Social Psychology.** 3 Units
Prerequisite(s): Open to classified graduate students in sociology, all others by instructor permission only.
Term Typically Offered: Fall, Spring

Examines advanced social psychology. Focuses on symbolic interactionism, ethnomethodology and other recent developments in sociological social psychology, phenomenology, humanistic social psychology and critical reflexive sociology.

**SOC 238. Environmental Sociology.** 3 Units
Term Typically Offered: Fall, Spring

Examines the complex relationship between human society and its surrounding environment. Theoretical perspectives are complemented by empirical research on environmental issues. Special attention is given to issues relating to the local and regional California environment. Analyzes environmental issues in a global context.

**SOC 240. Seminar: Sociological Theory.** 3 Units
Prerequisite(s): Classified graduate status in sociology; all others by instructor permission only.
Term Typically Offered: Fall, Spring

Analyzes and critiques terms and issues in social and sociological theory including levels of social reality and differing perspectives - positivism, idealism, realism, post-modernism, feminism, etc.

**SOC 255. Social Research in Crime and Deviance.** 3 Units
Term Typically Offered: Fall, Spring

Comprehensively reviews and evaluates major sociological theories of crime and deviance, methods of studying crime and deviance, current empirical research in crime and deviance, empirical testing of sociological explanations of crime and deviance, and empirical evaluation of crime and deviance control policy.

**SOC 260. Contemporary Issues of the Middle East and North Africa.** 3 Units
Term Typically Offered: Fall, Spring

Discusses in-depth several contemporary issues such as the political dimension of Islam, population growth and food security, oil and development, regional conflict, national integration and forces of modernization, etc. The selection of the topics will depend on current events.

**SOC 265. Race and Ethnic Relations.** 3 Units
Term Typically Offered: Fall, Spring

Examines the social constructs of race and ethnicity as "central organizing principles" in the making and development of our modern world, particularly in the U.S., and how they have interacted with class and gender to create and maintain cultural and material social inequalities. Evaluates competing and complementary theoretical frameworks explaining how race and ethnicity affect individual and group social-structural location (e.g., class position, educational attainment, and political power).

**SOC 266. Sociology of The Family.** 3 Units
Prerequisite(s): Classified graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Sociologically examines the family, with an emphasis on the contemporary American family. The numerous stages and variations of the family life cycle will be considered, with an emphasis on changes and the causes and consequences of the changes.

**SOC 274. Special Topics in Sociology.** 3 Units
Prerequisite(s): Open to classified graduate students in sociology; all other sociology graduate students by instructor permission
Term Typically Offered: Fall, Spring

Examines contemporary issues and social developments within the research specialization of department faculty. Provides a forum to discuss and evaluate controversies and advancements in the discipline of sociology including theory and methodologies.

**Note:** May be repeated twice for credit

**SOC 294. Special Topics in Sociology.** 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Examines advanced topics in specialized areas. Individual topics vary by term. Credit/No Credit

**SOC 295. Internship and Fieldwork.** 1 - 3 Units
Prerequisite(s): Classified graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Supervised internship and fieldwork experience in a variety of settings: (1) public or private agencies in the Sacramento community, (2) ethnic and/or minority communities, and (3) educational institutions including area community colleges and universities. Supervision is provided by authorized persons in the field and collaborative supervision is provided by sociology faculty at Sacramento State. Credit/No Credit

**SOC 299. Special Problems.** 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

**Note:** Open only to students who appear competent to carry on individual work. Admission requires approval of the sponsor of the project and the Department Chair. Credit/No Credit

**SOC 500. Culminating Experience.** 3 - 6 Units
Prerequisite(s): Advancement to candidacy, successful thesis prospectus hearing, and a minimum 3.0 GPA.
Term Typically Offered: Fall, Spring

Completion of a thesis or a project. Thesis: the 6 unit master’s thesis requirement must be completed under the direction of the student’s thesis committee. Project: the 6 unit project requirement must be completed under the direction of the student’s project committee.
BA in Sociology

Units required for Major: 43
Total units required for BA: 120

Program Description
The sociology major and minor have few specific requirements, allowing
the student flexibility in selecting courses in the various subject areas
covered in the program. The areas covered are:

1. social theory and methods of inquiry;
2. advanced studies, such as family, immigration, education, politics, religion, sport and environment;
3. thematic areas of crime and deviance, diversity and inequality, socialization and interaction, globalization, and social change.

Pre-Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Lower Division Courses (7 Units)</td>
<td></td>
</tr>
<tr>
<td>SOC 1</td>
<td>Principles of Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2</td>
<td>You, Sociology and the University</td>
<td>1</td>
</tr>
<tr>
<td>SOC 3</td>
<td>Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SOC 5</td>
<td>Exploring Issues Facing Contemporary Families</td>
<td></td>
</tr>
<tr>
<td>SOC 8</td>
<td>Sense and Nonsense in Social Issues and Research</td>
<td>1</td>
</tr>
<tr>
<td>SOC 10</td>
<td>Issues in Crime and Social Control</td>
<td></td>
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<tr>
<td></td>
<td>Total Units</td>
<td>7</td>
</tr>
</tbody>
</table>

1 Course also satisfies General Education (GE)/Graduation Requirement.
2 Course is required to be taken during first semester as a Sociology major.

Program Requirements

Pre-Major Requirements must be completed.

Required Upper Division Courses: 6 units in progress from Group 2 or Group 3 will count toward the Major Requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 1</td>
<td>Sociology of Religion</td>
<td></td>
</tr>
<tr>
<td>SOC 128</td>
<td>Sociology Of Sexuality</td>
<td></td>
</tr>
<tr>
<td>SOC 134</td>
<td>Sociology of Film</td>
<td></td>
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<tr>
<td>SOC 135</td>
<td>Sociology of Popular Culture</td>
<td></td>
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<tr>
<td>SOC 146</td>
<td>Sociology of Aging</td>
<td></td>
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<tr>
<td>SOC 168</td>
<td>Self and Society</td>
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<tr>
<td>SOC 170</td>
<td>Sociology of Children and Adolescents</td>
<td></td>
</tr>
<tr>
<td>SOC 190</td>
<td>Sociology of Small Groups</td>
<td></td>
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<tr>
<td>SOC 195</td>
<td>Internship and Fieldwork</td>
<td></td>
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<tr>
<td>A 196 Series Course</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOC 198</td>
<td>Linking Statistics Education and Practice</td>
<td></td>
</tr>
<tr>
<td>SOC 199</td>
<td>Individual Study Projects</td>
<td></td>
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<tr>
<td></td>
<td>Total Units</td>
<td>36</td>
</tr>
</tbody>
</table>

Note: SOC 195, SOC 198, or SOC 199 can be taken for 1-3 units of credit. A maximum of 3 total units in SOC 195, SOC 198, and/or SOC 199 may be counted toward the major. Students may take up to 3 units of upper division courses outside the department in consultation with their undergraduate advisor.
General Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A: Basic Subjects (9 Units)</td>
<td>A1 - Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A2 - Written Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A3 - Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Area B: Physical Universe and Its Life Forms (10 Units)</td>
<td>B1 - Physical Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>B2 - Life Forms</td>
<td>3</td>
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<tr>
<td></td>
<td>B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)</td>
<td>1</td>
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<tr>
<td></td>
<td>B4 - Math Concepts</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area C: Arts and Humanities (12 Units)</td>
<td>C1 - Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>C2 - Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>C1/C2 - Area C Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area D: The Individual and Society (9 Units)</td>
<td>Area D Course</td>
<td>3</td>
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<td></td>
<td>Area D Course</td>
<td>3</td>
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<td></td>
<td>Area D Course</td>
<td>3</td>
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<tr>
<td></td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Area E: Understanding Personal Development (3 Units)</td>
<td>Area E Course</td>
<td>3</td>
</tr>
<tr>
<td>Total Units</td>
<td></td>
<td>43</td>
</tr>
</tbody>
</table>

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

2. Department recommends SOC 8 in the Pre-Major Requirements to meet Area A3.

3. Required in Major; also satisfies GE.

Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements (required by CSU) (9 Units)</td>
<td>American Institutions: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Writing Intensive (WI)</td>
<td>3</td>
</tr>
<tr>
<td>Graduation Requirements (required by Sacramento State) (12 Units)</td>
<td>English Composition II</td>
<td>3</td>
</tr>
</tbody>
</table>

Race and Ethnicity in American Society (RE) 3
Foreign Language Proficiency Requirement 6

Admissions for this program have been suspended for the 2023/2024 Academic Year. Please contact the Department of Sociology (https://www.csus.edu/college/social-sciences-interdisciplinary-studies/sociology/) for further information.

Total units required for MA: 30

Program Description

The Master of Arts Program in Sociology is designed to provide a broad academic foundation for a variety of professional opportunities and community needs such as survey research, evaluation research, social problems analysis, career interest in community organizations, and teaching.

The program offers small seminars and allows for close student-faculty contact. The program encourages students to seek internships and fieldwork, and participate in observation experience among the many government, voluntary, and private agencies in the Sacramento area. Students concentrate on theory and research methods as well as areas of specialization. Following coursework, students write a thesis based on original research.

Some graduates of the program enter Ph.D. programs at a variety of universities throughout the United States and others are employed in many state, local, and city government agencies and private businesses doing evaluation research, systems analysis, social problems analysis, and social impact assessment.

Admission Requirements

Admission as a classified graduate student in Sociology requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units attempted;
- satisfactory completion of a minimum of 18 units of undergraduate work in Sociology, including one course each in theory, statistics, and methodology, with a minimum 3.0 GPA;
• two letters of recommendation from faculty members in Sociology who know the applicant well enough to assess his/her potential for graduate study.

Students who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any such deficiencies will be noted on a written response to the admission application.

Admission Procedures
Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

• an online application for admission;
• two sets of official transcripts from all colleges and universities attended, other than Sacramento State; and
• two letters of recommendation from Sociology faculty members to the Graduate Coordinator in the Sociology Department.

For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

Minimum Units and Grade Requirement for the Degree
Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy
Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

• removed any deficiencies in admission requirements;
• completed at least 15 units in the graduate program with a minimum 3.0 GPA;
• completed a draft of the thesis prospectus; and
• take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento.

Advancement to candidacy forms are available in the Department Office. The student fills out the form after planning a degree program in consultation with a Sociology Graduate Advisor. The completed form should be returned to the Office of Graduate Studies for approval.

Note: A foreign language is not required for the degree. However, students who plan further graduate study are encouraged to study French, German, or Spanish since proficiency in one of these is sometimes required in doctoral programs.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 200A</td>
<td>Orientation to Graduate Studies in Sociology (Remove Course, Replaced with SOC 200)</td>
<td>1</td>
</tr>
<tr>
<td>SOC 200B</td>
<td>Thesis Prospectus/Project Preparation Seminar (Remove Course, Replaced with SOC 200)</td>
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</tr>
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</table>

Electives (9 Units)
Select 9 units from the following:

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>SOC 210</td>
<td>Urban Sociology</td>
</tr>
<tr>
<td>SOC 220</td>
<td>Seminar: Social Change</td>
</tr>
<tr>
<td>SOC 225</td>
<td>Social Stratification</td>
</tr>
<tr>
<td>SOC 226</td>
<td>Sociology of Gender</td>
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<tr>
<td>SOC 230</td>
<td>Seminar: Social Organization</td>
</tr>
<tr>
<td>SOC 238</td>
<td>Environmental Sociology</td>
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<tr>
<td>SOC 255</td>
<td>Social Research in Crime and Deviance</td>
</tr>
<tr>
<td>SOC 260</td>
<td>Contemporary Issues of the Middle East and North Africa</td>
</tr>
<tr>
<td>SOC 265</td>
<td>Race and Ethnic Relations</td>
</tr>
<tr>
<td>SOC 266</td>
<td>Sociology of The Family</td>
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<tr>
<td>SOC 295</td>
<td>Internship and Fieldwork</td>
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<td>SOC 299</td>
<td>Special Problems</td>
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Culminating Experience (6 Units)

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>SOC 500</td>
<td>Culminating Experience</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Units 33

1 No more than 3 units of SOC 295 and SOC 299 may be counted toward the degree.

Women's and Gender Studies

College of Social Sciences and Interdisciplinary Studies

Program Description
Women's and Gender Studies is a dynamic interdisciplinary field preparing students to be future leaders, scholars, and social justice activists. We are dedicated to studying the social production of gender and women's experiences in relation to formations of sexuality, race, class, nationality, ability, ageism, and other categories of difference. Scholarship and research in Women's and Gender Studies emphasize the importance of connecting what students learn in the classroom to political projects and personal experiences.

Our curriculum empowers students to be agents of change in their communities and society. It provides them tools to examine relations of gender in local, national, and global contexts. Our courses situate gender within specific historical and cultural contexts, allowing students to examine how our lives are shaped by social and economic institutions, political movements, and individual experiences. “Putting Theory into Practice” since 1971, we place a strong emphasis on community involvement and activism, and we offer many opportunities for internships and service work credit.

The B.S. in Women's and Gender Studies prepares students for careers in education as professors, teachers, or curriculum specialists; in counseling as school counselors, psychological or family therapists; in law; health; human services; student services; and public service.

Minimum total units required for the BS: 120; 40 units should be upper division.
Degree Programs
BS in Women's & Gender Studies (p. 1100)
Minor in LGBTQ Studies (p. 1101)
Minor in Women's & Gender Studies (p. 1102)

Contact Information
Sujatha Moni, Department Chair
Lora Bowler, Administrative Support Coordinator
Amador Hall 550
(916) 278-6817
www.csus.edu/ (http://www.csus.edu/woms/)sis/womens-gender-studies
womensstudies@csus.edu (Womensstudies@csus.edu)

Faculty

WGS 50. Introduction to Gender & Sexuality. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to basic concepts and issues informing studies in gender, gay, lesbian, bisexual and transgender (GLBT) identities. Classic and contemporary texts from different cultures will cover biological, historical and social constructions of gender and sexuality. Transformations in family and society, global and intersectional perspectives on GLBT identity, political activism, cultural and social perceptions of gender and sexuality will be discussed.

WGS 75. Introduction to Disability Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

This course is an introduction to disability studies. An intersectional approach to knowledge construction about disability will be examined. This interdisciplinary study draws on humanities and social sciences, feminism, medical and scientific literature, and popular sources. How gender, race, class, sexuality, ethnicity, and nationality intersect with disability to shape experience will be analyzed. Historical and contemporary social movements and activism by people with disabilities will also be discussed.

WGS 85. Introduction to Women's & Gender Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to major topics and issues within feminism. Using interdisciplinary and intersectional perspectives, the course will examine issues in women's and gender studies across the globe. Feminist methods and approaches will be examined using classic and contemporary texts. Topics include intersectionality, LGBTQ studies, domestic violence, reproductive justice, beauty standards, disability, and globalization.

WGS 110. Introduction to Feminist Movements in the United States. 3 Units
General Education Area/Graduation Requirement: GE AREA D, United States History
Term Typically Offered: Fall, Spring

An examination of the institutional structures, practices and ideals contributing to feminist struggles, and achievements of feminist movements in the United States. Including contemporary struggles for social justice by women and LGBTQ people, this course explores how factors of race, class, gender, and sexuality have contributed to the emergence of feminist consciousness and struggles for rights in the United States from the nineteenth century to the present time.

WGS 118. Asian American Women. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Using an interdisciplinary approach, course offers a broad introduction to broad principle values and traditions shaping Asian American women's lives in the U.S. Examines cultural diversity, gender inequality and conflicts between traditions and social practices through critical analysis of literature, film and cultural theories as expressions of identity. Topics covered include: cultural heritage and philosophies, intergenerational conflict, transnationalism, gender roles and socio-economic practices. Comprehensive understanding principle factors governing Asian American women's lives at the nexus of Asian and American cultures. Cross-listed: ETHN 118.

WGS 120. Mother Woman Person. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

This course applies principles of feminism to the study of motherhood as social institution and private experience. Students explore family, cultural and social values that influenced their mothers and grandmothers, analyzing the impact of social institutions on their own childhood and adulthood. Students develop awareness of the historic evolution of women's social and private roles and the changing emphasis on woman as mother, wife/sexual companion and wage earning person largely through African American women's social movements.

WGS 121. Women Of The Middle East. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Provides an introduction to historical and contemporary conditions affecting women's lives and contributions to Middle Eastern societies. Readings will be framed with a focus on women within state systems and political life, economic activity, family systems, religious thought and law, health, arts and literature.

WGS 125. Sex & Gender in South Asia. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring, Summer

This course focuses on love, sex & gender in the cultures of South Asia starting with ancient times to the present. The influence of social customs, traditions, religion, and social class on human relationships will be examined using various texts and films. Gender and sexual identity, sexual desire, eroticism, sex role stereotyping, violence against women, gay and transgender people, subversive desires and the threat they post to patriarchal structures will be explored.
WGS 133. Gender & Health. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

This course explores feminist analyses of medicine. An intersectional approach to how medical science constructs knowledge about health will be examined. This interdisciplinary study draws on humanities and social sciences; feminism; medical, scientific, and clinical literature; popular sources; and web discourses. How gender, race, class, sexuality, ethnicity, nationality, and disability intersect and shape behavior and experience will be analyzed. Contemporary social movements and activism by women and LGBTQIA+ people will also be discussed.

WGS 136. Gender, Race, and Class. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring

Designed to examine the effects of the dynamic interaction of gender, race, and class on women. The social construction of gender, race, and class will also be examined. Other topics to be discussed and researched are the effects of sexism, racism, and classicism on institutions such as academia, business, government, religion, and social movements. Also provides an analysis of effective techniques to end sexism, racism, and classicism.

WGS 137. Women of Color. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring, Winter

This course examines significant issues that have contributed to the historical experiences of cisgender and transgender women of color in the United States. Contemporary resistance to violence and struggles for social justice will also be examined. Topics such as racial and cultural stereotypes, economic exploitation, gender stratification, struggles over identity, immigration status, and community activism and organizing efforts by Black, Native American, Latinx, Middle Eastern and Asian American women will be examined using classic and contemporary feminist readings and films.

WGS 138. Women and Work. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

Explores topics basic to discussion of women's paid and unpaid work from historical and crosscultural perspectives. Consideration is given to popular conceptions and stereotypes of work and "women's issues" in the industrialized world; the private and public lives of women and men with emphasis on work and social realities; and the maintenance of patriarchy under capitalism, socialism and communism, with some possible feminist "solutions.

WGS 139. Violence Against Women. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines the gendered and systemic nature of violence. Focuses on understanding and preventing violence against women. This course investigates oppression and privilege using an intersectional and transnational feminist lens and looks at how gender-based violence is perpetuated through some of the following: sexual harassment and assault, domestic violence, child abuse, medical and psychiatric violence, economic violence, military violence, and state violence. This course also examines the ways that women are individually and collectively combating these various forms of violence.

WGS 140. Latinx Feminist Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

This course offers students feminist frameworks for understanding Latinx feminisms as a field of study and political inquiry. Latinx feminisms and their development are mapped alongside queer, trans, Black, Indigenous, women of color, and antiracist feminisms and movements. Centers the creative and critical ways in which Latinx feminists conceptualize oppression, resistance, social transformation, and the abolition of systems of domination. Students will analyze the complexity, heterogeneity, and interconnectedness of U.S. based Latinx feminists.

WGS 144. Women and Theatre: Staging Diversity. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Includes study of recent feminist performance theory and criticism and its application to acting, directing, and writing for the theatre. Students will participate in both lecture/discussion and activities, including the creation of a final performance. Lecture two hours; lab two hours. Cross Listed: THEA 144; only one may be counted for credit.

WGS 145. Feminism and the Spirit. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

This course examines Goddess cultures and the power of feminist spirituality and healing across different cultures and time-periods using Art & Literature. Sexism in institutionalized religions, advances women are making, and the backlash they are suffering will be discussed. The ‘witch craze’ which began in Europe, how women across the world continue to suffer from accusations of witchcraft today will be covered. We will examine aspects of the modern feminist spiritual movement and its strong ties to the environmental movements.

WGS 146. Women In Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Study of the unique and important contributions of women to the visual arts (Renaissance to present) and their personal struggle toward success and recognition. The Women’s Art Movement and its impact on education, museums and women’s status in the arts are important topics of this class.
WGS 147. Women & Globalization. 3 Units
Prerequisite(s): Minimum 45 units completed
Term Typically Offered: Fall only

This advanced interdisciplinary course will explore the gendered effects of globalization across the world at local, national, and global scales. Using feminist approaches, the course will examine issues of gender equity and uneven distribution of power created by the interconnection between capitalism, colonialism, and patriarchy. Topics such as economic globalization, war and militarism, tourism, sex trafficking, food security and environmental justice, gender-based violence, healthcare, migration and global activism will be covered in the course.

WGS 150. Introduction to Queer and Trans Studies. 3 Units
Prerequisite(s): WGS 50 or instructor permission.
Term Typically Offered: Fall only

Introduces students to the fields of queer theory and trans theory from a transnational feminist perspective. Includes theoretical approaches to the history of sexuality and the politics of sexual and gender normativity. Places queer and trans studies in conversation with Native studies, disability studies, postcolonial theory, critical race and ethnic studies, and feminist theory.

WGS 166. Gender and Politics. 3 Units
Term Typically Offered: Spring only

This course examines the influence of socially constructed meanings of femininity and masculinity on the political participation of women, candidate selection, election campaigns, and electoral outcomes in executive and legislative offices in the U.S. and worldwide. Students will develop a rich understanding of the relationship between gender and women’s political representation and analyze and discuss institutional, structural, cultural, and historical conditions associated with women’s voting behavior, political advancement, leadership styles, and impacts of political representation on women.

Cross Listed: POLS 166; only one may be counted for credit.

WGS 172A. LGBTQ Histories. 3 Units
Term Typically Offered: Spring only

This course provides an introduction to the study of lesbian, gay, bisexual, transgender, and queer (LGBTQ) histories. Uses an interdisciplinary and comparative approach to explore the historical emergence and development of LGBTQ identities, communities, and political movements. Includes theoretical analysis of the history of gender and sexuality and the practice of historical analysis.

Cross Listed: HIST 172A; only one may be taken for credit.

WGS 175. Gender & Disability. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

This interdisciplinary course utilizes texts from various humanities and social sciences disciplines to survey the field of feminist disability studies, with emphasis on intersectional feminist disability theory, narrative, and practice. Attention will be given to historical and contemporary social movements and activism by disabled people, focusing particularly on disability justice. Students will analyze how individual experiences of gender, race, class, sexuality, ethnicity, and nationality intersect with disability to reflect institutional bias against multiply marginalized disabled people.

WGS 180. Seminar in Feminist Theory. 3 Units
Prerequisite(s): WGS 110 or instructor permission.
Term Typically Offered: Spring only

Advanced course providing detailed inquiry into specific feminist theories, including their conceptual framework and development, relationship to other political theories and application to the current practices of feminism.

WGS 195A. Fieldwork in Women's Studies. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised experience in selected women's organizations and projects in the Sacramento area; for example, the Rape Crisis Center, Women Escaping a Violent Environment (WEAVE), Sacramento Women's Center. Credit/No Credit

WGS 198. Special Topics in Women's and Gender Studies. 3 Units
Prerequisite(s): WGS 85 or WGS 110
Term Typically Offered: Fall, Spring

Examines various topics within the field of women's and gender studies. Different issues will be covered based on the interests and expertise of the faculty teaching the course. Approaches topics from broadly intersectional perspectives using feminist concepts and methods. Potential topics include: Feminism & War; Queer & Trans Migrations; Gender, Sexuality & Mass Incarceration; Gender & Human Rights; Reproductive Justice; Feminist Disability Studies; LGBTQ Health; Black Motherhood; Black Feminist Activism; Gender & Education; Comparative Feminisms.

WGS 199. Special Problems. 1 - 3 Units
Prerequisite(s): WGS 115 and instructor permission.
Term Typically Offered: Fall, Spring

Supervised individual research projects or directed reading specifically related to Women's Studies topics. Should be taken by students who can work on an individual basis. Credit/No Credit
BS in Women’s and Gender Studies

Units required for Major: 36
Total units required for BS: 120

Program Description

Women’s and Gender Studies is a dynamic interdisciplinary field preparing students to be future leaders, scholars, and social justice activists. We are dedicated to studying the social production of gender and women’s experiences in relation to formations of sexuality, race, class, nationality, ability, ageism, and other categories of difference. Scholarship and research in Women’s and Gender Studies emphasize the importance of connecting what students learn in the classroom to political projects and personal experiences.

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The B.S. in Women’s and Gender Studies prepares students for careers in education, as professors, teachers, or curriculum specialists; counseling, as school counselors, psychological or family therapists; law, health; human services; student services; and public service.

Minimum total units required for the BS: 120; 40 units should be upper division.

Minimum Grade Requirement

A minimum grade of C- is required of courses applied to the major.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>A. Core Courses (12 Units)</td>
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</tr>
<tr>
<td>WGS 50</td>
<td>Introduction to Gender &amp; Sexuality 1</td>
<td>3</td>
</tr>
<tr>
<td>WGS 85</td>
<td>Introduction to Women’s &amp; Gender Studies 1</td>
<td>3</td>
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<tr>
<td>WGS 110</td>
<td>Introduction to Women’s Movements in the United States 1</td>
<td>3</td>
</tr>
<tr>
<td>WGS 180</td>
<td>Seminar in Feminist Theory</td>
<td>3</td>
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<td>B. Required Departmental Elective Courses (15-18 Units)</td>
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<tr>
<td>Select 5-6 courses from the following, with at least one course from each category:</td>
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Political and Social Movements / Applied

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>WGS 75</td>
<td>Introduction to Disability Studies</td>
<td></td>
</tr>
<tr>
<td>WGS 133</td>
<td>Gender &amp; Health 1</td>
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### General Education Requirements

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td><strong>Area A: Basic Subjects (6 Units)</strong></td>
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<tr>
<td>A1</td>
<td>Oral Communication</td>
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<tr>
<td>A2</td>
<td>Written Communication</td>
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</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
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<tr>
<td><strong>Area B: Physical Universe and Its Life Forms (10 Units)</strong></td>
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<tr>
<td>B1</td>
<td>Physical Science</td>
<td>3</td>
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<tr>
<td>B2</td>
<td>Life Forms</td>
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<td>B3</td>
<td>Lab (Note: Lab experience to be taken with one of the following)</td>
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<td></td>
<td>B1, B2 or B5</td>
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<tr>
<td>B4</td>
<td>Math Concepts</td>
<td>3</td>
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<tr>
<td>B5</td>
<td>Additional Course (Any B to reach 12 units) - Take upper-division</td>
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<td></td>
<td>course to complete Area &amp; upper division requirements. 2</td>
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<tr>
<td><strong>Area C: Arts and Humanities (12 Units)</strong></td>
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<tr>
<td>C1</td>
<td>Arts</td>
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<tr>
<td>C2</td>
<td>Humanities</td>
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<td>C1/C2</td>
<td>Area C Course</td>
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<td></td>
<td>C1/C2 - Area C Course - Take upper-division course to complete Area</td>
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<tr>
<td></td>
<td>&amp; upper division requirements. 2</td>
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<td><strong>Area D: The Individual and Society (3 Units)</strong></td>
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<td>Area D</td>
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<td>Area D</td>
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<tr>
<td>Area D</td>
<td>Area D Course - Take upper-division course to complete Area &amp; upper</td>
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<td><strong>Area E: Understanding Personal Development (3 Units)</strong></td>
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<td>Area E</td>
<td>Course</td>
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<tr>
<td><strong>Area F: Ethnic Studies</strong></td>
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<td>Area F</td>
<td>Course</td>
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</table>

**Total Units** 34

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1103).

**Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

### Graduation Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td><strong>Graduation Requirements (required by CSU) (6 Units)</strong></td>
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<tr>
<td>American Institutions: U.S. History</td>
<td>3</td>
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<tr>
<td>American Institutions: U.S. Constitution &amp; CA Government</td>
<td>3</td>
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</tr>
<tr>
<td>Writing Intensive (WI)</td>
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<tr>
<td><strong>Graduation Requirements (required by Sacramento State) (12 Units)</strong></td>
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<tr>
<td>English Composition II</td>
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<tr>
<td>Race and Ethnicity in American Society (RE)</td>
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<tr>
<td>Foreign Language Proficiency Requirement</td>
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**Total Units** 12

### Program Requirements

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<tr>
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<tr>
<td><strong>Required Core Courses (6 Units)</strong></td>
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</tr>
<tr>
<td>WGS 50</td>
<td>Introduction to Gender &amp; Sexuality</td>
<td>3</td>
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<tr>
<td>WGS 150</td>
<td>Introduction to Queer and Trans Studies</td>
<td>3</td>
</tr>
<tr>
<td><strong>Elective Courses (12-14 Units)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select four from the following:</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

**Minor in LGBTQ Studies**

Units required for Minor: 18

### Program Description

The LGBTQ Studies minor provides students with competency in interdisciplinary scholarship related to the study of lesbian, gay, bisexual, transgender, and queer lives and communities as well as to the study of gender and sexual structures. The minor familiarizes students with the theoretical and methodological tools used to study gender and sexuality from a variety of disciplinary perspectives. Students will gain an understanding of how non-normative sexualities and genders have been organized in previous historical moments and in different cultural and national contexts in the present. The minor equips students with awareness of sexual and gender diversity and how sexuality intersects with and informs other categories of identity and practice, such as race, class, ethnicity, age, and disability.

A minor in LGBTQ Studies prepares students for their pursuit of graduate and professional degrees. Given the increasing demand for nuance around issues of diversity in both the public and private sectors of the job market, this minor also positions Sacramento State graduates well for careers in education, social work, counseling, health care, social services, media, law and policy, and nonprofit advocacy.

### WGS Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 170M</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>ENGL 190Q</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>HIST 131</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 172B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 123</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Department recommends WGS Elective that meets the WI Graduation Requirement; see Program Requirements table above.

**Note:** WGS courses that meet the WI Graduation Requirement are displayed with a pencil icon.

2 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-proficiency-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-proficiency-requirement.html)
Minor in Women's and Gender Studies

Units required for the Minor: 21

Program Description

Women's and Gender Studies is a dynamic interdisciplinary field preparing students to be future leaders, scholars, and social justice activists. We are dedicated to studying the social production of gender and women's experiences in relation to formations of sexuality, race, class, nationality, ability, ageism, and other categories of difference. Scholarship and research in Women's and Gender studies emphasize the importance of connecting what students learn in the classroom to political projects and personal experiences.

Our curriculum empowers students to be agents of change in their communities and society. It provides them tools to examine relations of gender in local, national, and global contexts. Our courses situate gender within specific historical and cultural contexts, allowing students to examine how our lives are shaped by social and economic institutions, political movements, and individual experiences. "Putting Theory into Practice" since 1971, we place a strong emphasis on community involvement and activism, and we offer many opportunities for internships and service work credit.

The Minor in Women's and Gender Studies will help students prepare for careers in education, as professors, teachers, or curriculum specialists; counseling, as school counselors, psychological or family therapists; law; health; human services; student services; and public service.

Minimum Grade Requirement

A minimum grade of C- is required of courses applied to the minor.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Core Courses (9 Units)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WGS 85</td>
<td>Introduction to Women's &amp; Gender Studies</td>
<td>3</td>
</tr>
<tr>
<td>WGS 110</td>
<td>Introduction to Women's Movements in the United States</td>
<td>3</td>
</tr>
<tr>
<td>WGS 180</td>
<td>Seminar in Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>B. Required Departmental Elective Courses (9 Units)</td>
<td>Select one course from each of the following categories:</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Political and Social Movements / Applied

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>WGS 50</td>
<td>Introduction to Gender &amp; Disability Studies</td>
<td></td>
</tr>
<tr>
<td>WGS 75</td>
<td>Introduction to Disability Studies</td>
<td></td>
</tr>
<tr>
<td>WGS 133</td>
<td>Gender &amp; Health</td>
<td></td>
</tr>
<tr>
<td>WGS 136</td>
<td>Gender, Race, and Class</td>
<td></td>
</tr>
<tr>
<td>WGS 139</td>
<td>Violence Against Women</td>
<td></td>
</tr>
<tr>
<td>WGS 175</td>
<td>Gender &amp; Disability</td>
<td></td>
</tr>
<tr>
<td>WGS 195A</td>
<td>Fieldwork in Women's Studies</td>
<td></td>
</tr>
<tr>
<td>WGS 198</td>
<td>Special Topics in Women's and Gender Studies</td>
<td></td>
</tr>
<tr>
<td>WGS 199</td>
<td>Special Problems</td>
<td></td>
</tr>
</tbody>
</table>

Critical Cultural Studies

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 120</td>
<td>Mother Woman Person</td>
<td></td>
</tr>
<tr>
<td>WGS 137</td>
<td>Women Of Color</td>
<td></td>
</tr>
<tr>
<td>WGS 140</td>
<td>Latinx Feminist Studies</td>
<td></td>
</tr>
<tr>
<td>WGS 145</td>
<td>Feminism and the Spirit</td>
<td></td>
</tr>
<tr>
<td>WGS 146</td>
<td>Women In Art</td>
<td></td>
</tr>
<tr>
<td>WGS 150</td>
<td>Introduction to Queer and Trans Studies</td>
<td></td>
</tr>
</tbody>
</table>

Globalization and Transnational Feminisms

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS 121</td>
<td>Women Of The Middle East</td>
<td></td>
</tr>
<tr>
<td>WGS 125</td>
<td>Sex &amp; Gender in South Asia</td>
<td></td>
</tr>
<tr>
<td>WGS 138</td>
<td>Women and Work</td>
<td></td>
</tr>
<tr>
<td>WGS 147</td>
<td>Women's Global Issues</td>
<td></td>
</tr>
</tbody>
</table>

C. Interdisciplinary Elective Courses (3-4 Units)

Select one course from the following: 3 - 4

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJ 111</td>
<td>Women and the Criminal Justice System</td>
<td></td>
</tr>
<tr>
<td>ECON 184</td>
<td>Women and the Economy</td>
<td></td>
</tr>
<tr>
<td>EDUC 165</td>
<td>Sex Role Stereotyping in American Education</td>
<td></td>
</tr>
<tr>
<td>ETHN 132</td>
<td>La Mujer Chicana</td>
<td></td>
</tr>
<tr>
<td>ETHN 151</td>
<td>Native American Women</td>
<td></td>
</tr>
<tr>
<td>ETHN 172</td>
<td>Black Women In America</td>
<td></td>
</tr>
<tr>
<td>ENGL 185B</td>
<td>Twentieth Century Fiction by Women</td>
<td></td>
</tr>
<tr>
<td>ENGL 185C</td>
<td>British Women Novelists</td>
<td></td>
</tr>
<tr>
<td>ENGL 185D</td>
<td>American Women Writers</td>
<td></td>
</tr>
<tr>
<td>HIST 167</td>
<td>History of American Women</td>
<td></td>
</tr>
<tr>
<td>HIST 175A</td>
<td>Sex, Population, and Birth Control in America</td>
<td></td>
</tr>
<tr>
<td>HRS 185</td>
<td>Women in Film and American Culture</td>
<td></td>
</tr>
<tr>
<td>JOUR 172</td>
<td>Women in the Mass Media</td>
<td></td>
</tr>
<tr>
<td>PHIL 123</td>
<td>Philosophy and Feminism</td>
<td></td>
</tr>
<tr>
<td>PSYC 134</td>
<td>Psychology of Human Sexuality</td>
<td></td>
</tr>
<tr>
<td>PSYC 157</td>
<td>Psychology of Women</td>
<td></td>
</tr>
<tr>
<td>SOC 126</td>
<td>Sociology of Gender</td>
<td></td>
</tr>
<tr>
<td>SWRK 134</td>
<td>Crimes Without Victims</td>
<td></td>
</tr>
<tr>
<td>WGS/ETHN  118</td>
<td>Asian American Women</td>
<td></td>
</tr>
<tr>
<td>WGS/ETHN  144</td>
<td>Women and Theatre: Staging Diversity</td>
<td></td>
</tr>
<tr>
<td>WGS/POLS  166</td>
<td>Gender and Politics</td>
<td></td>
</tr>
<tr>
<td>WGS/THEA  144</td>
<td>Women and Theatre: Staging Diversity</td>
<td></td>
</tr>
<tr>
<td>WGS/THEA  144</td>
<td>Women and Theatre: Staging Diversity</td>
<td></td>
</tr>
</tbody>
</table>

Total Units 21-22
Office of Academic Affairs

Academic Affairs is the largest administrative unit in the University, encompassing the seven Academic Colleges, the University Library, and the College of Continuing Education.

Our Program Centers include: the Office of Graduate Studies, Research Administration, the Community Engagement Center, the Center for Teaching and Learning, Academic Technology & Creative Services, International Programs & Global Engagement, and the Center for College Readiness. Most important, we ensure quality academic programs for all students and support well qualified faculty to provide excellent teaching and learning.

Programs:

General Education (p. 1103)
General Education Honors (p. 1149)
Peace Corps Prep Certificate (p. 1022)
ROTC (p. 1151)
Special Major/Minor (p. 1155)

Academic Affairs
Sacramento State
6000 J Street
Sacramento, CA 95819-6016
Phone: (916) 278-6331
Fax: (916) 278-7648
Email: Academic Affairs (academicaffairs@csus.edu)

General Education

Click here for General Education Requirements prior to Fall 2018. (p. 1132)

Click here for General Education Requirements from Fall 2018 to Spring 2021.

One of the principles on which a modern university rests is the assumption that there is an important difference between learning to make a living and building the foundation for a life. While the first goal is important, the second is fundamental.

In focusing on the students’ development as whole or “educated” people, a university distinguishes itself from a trade school. The goal of a university education is not simply the acquisition and application of knowledge, but the creation of people who firmly grasp the worth of clear thinking and know how to do it; who understand and appreciate the differences between peoples and cultures as well as their similarities; who have a sense of history and social forces; who can express thought clearly and have quantitative ability; who know something about the arts as well as how to enjoy them; who can talk and think intelligently about the physical and life sciences, the humanities, and literature; and, above all, who have the desire and capability for learning. This goal is why a university degree is so highly valued by individuals, employers, and the community at large.

The Sacramento State General Education Program is designed to educate in this holistic sense. Thus, it is not simply a series of courses to complete or hoops for students to jump through as they complete the courses in their major. Rather, general education lies at the heart of what a university education is all about.

Therefore students should carefully select courses and actively seek subject areas that are new and may challenge their world views or cherished assumptions and offer new experiences, such as inquiry-based or community-based learning. In short, students should not take the easy way out. This is their opportunity to lay the foundation for the rest of their lives, and to define themselves as educated members of the human community. Their time at the university is precious and the General Education Program has been designed to help them begin the process of becoming truly educated people. In deciding to pursue a university degree, they have chosen well and should make the best use of the opportunities open to them.

Objectives

Upon completion of the General Education Program requirements, students will be expected to:

- read, write, and understand relatively complex and sophisticated English prose;
- construct a non-fallacious verbal argument, recognize fallacious arguments, and follow the verbal arguments of others;
- find and use common information resources, engage in specialized library research, use computers, and seek out appropriate expert opinion and advice;
- use mathematical ideas to accomplish a variety of tasks;
- gain a general understanding of current theory, concepts, knowledge, and scientific methods pertaining to the nature of the physical universe, ecosystems, and life on this planet;
- develop an acquaintance and understanding of cultures and major dynamic social institutions which affect one’s life,
- possess a significant and useful understanding of peoples from a diversity of cultures and backgrounds, including women and ethnic and other minority groups who have been the objects of prejudice and adverse discrimination within our society.

In addition to these basic skills, courses in the sciences, arts, humanities, and social sciences have been selected to help students attain the university’s baccalaureate learning goals and to satisfy particular GE Area Learning Outcomes. The Baccalaureate Learning Goals include:

- Competence in the Disciplines: The ability to demonstrate the competencies and values listed below in at least one major field of study and to demonstrate informed understandings of other fields, drawing on the knowledge and skills of disciplines outside the major.
- Knowledge of Human Cultures and the Physical and Natural World through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts. Focused by engagement with big questions, contemporary and enduring.
- Intellectual and Practical Skills, Including: inquiry and analysis, critical, philosophical, and creative thinking, written and oral communication, quantitative literacy, information literacy, teamwork and problem solving, practiced extensively across the curriculum, in the context of progressively more challenging problems, projects, and standards for performance.
- Personal and Social Responsibility, Including: civic knowledge and engagement—local and global, intercultural knowledge and competence, ethical reasoning and action, foundations and skills for lifelong learning anchored through active involvement with diverse communities and real-world challenges.
General Education

- **Integrative Learning**, including: synthesis and advanced accomplishment across general and specialized studies.

1. Understanding of and respect for those who are different from oneself and the ability to work collaboratively with those who come from diverse cultural backgrounds.

2. Interdisciplinary learning, learning communities, capstone or senior studies in the General Education program and/or in the major connecting learning goals with the content and practices of the educational programs including GE, departmental majors, the co-curriculum and assessments.

Sacramento State General Education courses are designed, selected, and approved by the faculty to meet these program objectives. Students will benefit from consultation with the Academic Advising Center or advisors in their major departments in planning their General Education course choices. Students may search the online Schedule of Classes by Area or other specification(s) for currently available GE courses.

### Course Requirements

The following courses have been approved to meet the 48-unit General Education pattern required of Sacramento State students. At least 9 units must be in upper division GE courses (100-199) from Areas B, C, and D taken after you complete 45 units of coursework. Enrollment in upper division General Education courses is limited to students who have completed Areas A1, A2, A3. Upper division General Education courses must be completed in residence with the CSU.

**General Education/Graduation Requirements Checklist**

A checklist is available to download here [https://www.csus.edu/academic-affairs/curriculum-workflow/_internal/_documents/ge_worksheet_sac-state.pdf](https://www.csus.edu/academic-affairs/curriculum-workflow/_internal/_documents/ge_worksheet_sac-state.pdf).

Students must choose their General Education classes from the Areas and classes listed below.

### Area A: Basic Subjects (p. 1104) (9 units)

These requirements must be completed before enrollment in upper division GE courses. A grade of "C-" or better is required in all courses taken in Area A.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1: Oral Communication</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMS 4</td>
<td>Introduction to Public Speaking</td>
<td></td>
</tr>
<tr>
<td>COMS 5</td>
<td>The Communication Experience</td>
<td></td>
</tr>
</tbody>
</table>

| A2: Written Communication | | 3 |

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 5</td>
<td>Accelerated Academic Literacies</td>
<td></td>
</tr>
<tr>
<td>ENGL 5M</td>
<td>Accelerated Academic Literacies - Multilingual</td>
<td></td>
</tr>
<tr>
<td>ENGL 11</td>
<td>Academic Literacies II</td>
<td></td>
</tr>
<tr>
<td>ENGL 11M</td>
<td>Academic Literacies II-Multilingual</td>
<td></td>
</tr>
</tbody>
</table>

| A3: Critical Thinking | | 3 |

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 4</td>
<td>Language, Culture, and Critical Thinking</td>
<td></td>
</tr>
<tr>
<td>COMS 2</td>
<td>Argumentation</td>
<td></td>
</tr>
<tr>
<td>EDUC 10</td>
<td>Critical Thinking and the Educated Person</td>
<td></td>
</tr>
<tr>
<td>EDUC 10H</td>
<td>Critical Thinking and the Educated Person: Honors</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 11</td>
<td>Environmental Issues and Critical Thinking</td>
<td></td>
</tr>
<tr>
<td>FASH 33</td>
<td>Fashion Sustainability, Global Impact, and Critical Thinking</td>
<td></td>
</tr>
<tr>
<td>HIST 10</td>
<td>History's Mysteries: Thinking Critically about the Past</td>
<td></td>
</tr>
<tr>
<td>HRS 60</td>
<td>Popular Culture: Thinking Critically About the World Around Us</td>
<td></td>
</tr>
<tr>
<td>JOUR 50</td>
<td>Media Literacy and Critical Thinking</td>
<td></td>
</tr>
<tr>
<td>NURS 9</td>
<td>Reasoning and Critical Thinking on Health Topics</td>
<td></td>
</tr>
<tr>
<td>PHIL 4</td>
<td>Critical Thinking</td>
<td></td>
</tr>
<tr>
<td>PHYS 30</td>
<td>Science and Pseudoscience</td>
<td></td>
</tr>
<tr>
<td>SOC 8</td>
<td>Sense and Nonsense in Social Issues and Research</td>
<td></td>
</tr>
</tbody>
</table>

### Area B: The Physical Universe and Its Life Forms (p. 1104) (12 Units)

At least 3 units must be taken in each of Areas B1, B2 and B4 and B5. At least one course with a laboratory component (B3) must be taken in conjunction with Area B1 or B2.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 4A</td>
<td>Introduction to the Solar System</td>
<td></td>
</tr>
<tr>
<td>ASTR 4B</td>
<td>Introduction to Stars, Galaxies, and Cosmology</td>
<td></td>
</tr>
<tr>
<td>ASTR 4C</td>
<td>Introduction to Astrobiology</td>
<td></td>
</tr>
<tr>
<td>ASTR 6</td>
<td>Astronomical Observation Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 6A</td>
<td>Introduction to General Chemistry</td>
<td></td>
</tr>
<tr>
<td>FASH 31</td>
<td>Science of Textile</td>
<td></td>
</tr>
<tr>
<td>GEOG 1</td>
<td>Physical Geography: The Distribution of Natural Phenomena</td>
<td></td>
</tr>
<tr>
<td>GEOG 5</td>
<td>Violent Weather/Changing Atmosphere</td>
<td></td>
</tr>
<tr>
<td>GEOG 11</td>
<td>Laboratory in Physical Geography</td>
<td></td>
</tr>
<tr>
<td>GEOL 5</td>
<td>Geology Of Mexico</td>
<td></td>
</tr>
<tr>
<td>GEOL 7</td>
<td>Natural Disasters</td>
<td></td>
</tr>
<tr>
<td>GEOL 8</td>
<td>Earth Science</td>
<td></td>
</tr>
<tr>
<td>GEOL 8L</td>
<td>Earth Science Lab</td>
<td></td>
</tr>
<tr>
<td>GEOL 10</td>
<td>Physical Geology</td>
<td></td>
</tr>
<tr>
<td>GEOL 10L</td>
<td>Physical Geology Lab</td>
<td></td>
</tr>
<tr>
<td>NUFD 5</td>
<td>Science of Food</td>
<td></td>
</tr>
<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
<td></td>
</tr>
<tr>
<td>PHYS 10</td>
<td>Physics In Our World</td>
<td></td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
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</tr>
</tbody>
</table>

**AREA B2: LIFE FORMS**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1</td>
<td>Introduction to Biological Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 1A</td>
<td>Biological Anthropology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td></td>
</tr>
<tr>
<td>BIO 7</td>
<td>Introduction to the Science of Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 9</td>
<td>Our Living World: Evolution, Ecology and Behavior</td>
<td></td>
</tr>
<tr>
<td>BIO 10</td>
<td>Basic Biological Concepts</td>
<td></td>
</tr>
<tr>
<td>BIO 20</td>
<td>Biology: A Human Perspective</td>
<td></td>
</tr>
</tbody>
</table>

[Back to top](#)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 10</td>
<td>Introduction to Environmental Science</td>
</tr>
<tr>
<td>ENVS 10H</td>
<td>Honors Environmental Science</td>
</tr>
</tbody>
</table>

**AREA B3: LAB**

Select a course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 6</td>
<td>Astronomical Observation Laboratory</td>
</tr>
<tr>
<td>ANTH 1A</td>
<td>Biological Anthropology Laboratory</td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
</tr>
<tr>
<td>BIO 7</td>
<td>Introduction to the Science of Biology</td>
</tr>
<tr>
<td>BIO 15L</td>
<td>Laboratory Investigations in Biology</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM 6A</td>
<td>Introduction to General Chemistry</td>
</tr>
<tr>
<td>GEO 11</td>
<td>Laboratory in Physical Geography</td>
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<td>GEOL 5</td>
<td>Geology Of Mexico</td>
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<td>GEOL 8L</td>
<td>Earth Science Lab</td>
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<td>Physical Geology Lab</td>
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<td>KINS 150</td>
<td>Exercise and Sport Physiology</td>
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<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
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<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
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**AREA B4: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING**

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<tr>
<td>MATH 1</td>
<td>Mathematical Reasoning</td>
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<td>Honors Mathematical Reasoning</td>
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<td>MATH 17</td>
<td>An Introduction to Exploration, Conjecture, and Proof in Mathematics</td>
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<td>MATH 24</td>
<td>Modern Business Mathematics</td>
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<td>Calculus I for the Social and Life Sciences</td>
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<td>Calculus II for the Social and Life Sciences</td>
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<td>Introduction to Probability and Statistics</td>
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<td>Introductory Statistics with Developmental Mathematics</td>
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**AREA B5: FURTHER STUDIES IN PHYSICAL SCIENCE, LIFE FORMS, AND QUANTITATIVE REASONING**

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<td>World Prehistory and the Evolution of Modern Humanity</td>
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<td>ANTH 118</td>
<td>The Anthropocene: Human Impacts on Ancient Environments</td>
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<tr>
<td>ANTH 132</td>
<td>Health, Culture, Power: Topics in Medical Anthropology</td>
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<td>ANTH 133</td>
<td>Life of Primates</td>
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<td>ANTH 159</td>
<td>Forensic Anthropology</td>
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<td>ASTR 131</td>
<td>The Solar System and Space Exploration</td>
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<td>ASTR 132</td>
<td>Stars, Galaxies and Cosmology</td>
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<td>Through Space and Time in the Planetarium</td>
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<td>BIO 100</td>
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<td>GEOG 116</td>
<td>Global Climate Change</td>
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<td>Visualizing Global Environments</td>
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<td>Volcanoes: An Introduction</td>
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<td>Oceanography</td>
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<td>Age of Dinosaurs</td>
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<td>GER 123</td>
<td>Research on Aging &amp; the Life Course</td>
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<td>History of the Physical Sciences</td>
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<td>Global Environmental History in the Age of Imperialism, 1450-Present Day</td>
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<td>History of Madness in the United States</td>
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<td>The Brain and Gender-Related Differences</td>
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<td>Research as the Foundation for Evidence-Based Nursing Practice</td>
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<td>Modern Physics for Everyone</td>
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<td>PHYS 182</td>
<td>Physics of Sports</td>
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<td>PHYS 186</td>
<td>Musical Acoustics: Science and Sound</td>
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<td>PHYS 187</td>
<td>Seeing the Light</td>
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<td>Quantitative Reasoning in Political Science</td>
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<td>PSYC 165</td>
<td>Evolutionary Psychology</td>
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### General Education

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<td>The Science of Nature Engagement and Human Health &amp; Wellbeing</td>
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<td>RPTA 126</td>
<td>The Science of Play</td>
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<td>RPTA 169</td>
<td>Traumatology: An Introduction to Posttraumatic Growth</td>
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<tr>
<td>WGS 133</td>
<td>Gender &amp; Health</td>
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**Total Units: 12**

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1 See the Math Department website: https://www.csus.edu/college/natural-sciences-mathematics/math-placement-exam/ A grade of "C-" or better is required in all courses taken in Area B4.

### Area C: The Arts and Humanities (p. 1106) (12 Units)

At least 3 lower division units must be completed in Area C1: ARTS and at least 3 lower division units must be completed in C2: HUMANITIES. At least 3 additional lower division units and 3 upper division units must be completed in either of the C1: Arts or C2: Humanities.

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<th>Units</th>
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Select 3-9 units from the following two divisions:

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<td>ART 1B</td>
<td>Art, Empires, and Cross-Cultural Exchange, 1400-1800</td>
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<td>ART 1C</td>
<td>Global Modern and Contemporary Art</td>
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<td>ART 2</td>
<td>History of Islamic Art</td>
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<td>ART 3A</td>
<td>Traditional Asian Art</td>
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<td>ART 3B</td>
<td>Modern and Contemporary Asian Art</td>
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<td>ART 4</td>
<td>European Visual Traditions</td>
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<td>ART 5</td>
<td>Art of the Americas</td>
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<td>ART 7</td>
<td>Introduction to Art and Visual Culture</td>
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<td>ART 20A</td>
<td>Beginning Drawing</td>
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<td>ART 70</td>
<td>Form, Space Vision</td>
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<td>ART 86</td>
<td>Clay Sculpture</td>
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<td>ART 88</td>
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<td>MUSC 8</td>
<td>Basic Music</td>
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<td>Music In World Cultures</td>
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<td>MUSC 10A</td>
<td>Survey of Music Literature I</td>
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<td>MUSC 10B</td>
<td>Survey of Music Literature II</td>
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<td>MUSC 18</td>
<td>Music Appreciation</td>
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<td>THEA 2</td>
<td>History of the Theatre: Ancient to Renaissance</td>
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<td>Theatre History After 1660</td>
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<td>Aesthetics of Theatre and Film</td>
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<td>Appreciation Of Acting</td>
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#### Upper Division: Select 0-3 Units

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<td>ART 102</td>
<td>Themes in World Art and Visual Culture</td>
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<td>ART 110</td>
<td>US and Caribbean Art: Race and Representation</td>
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<td>ART 111</td>
<td>Latin American and Latino Art History</td>
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<td>Art of India and Southeast Asia</td>
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<td>Art of China and Japan</td>
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<td>Public Art in the Americas</td>
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<td>DANCE 130</td>
<td>Appreciation and History of Dance</td>
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<td>Dance Cultures Of America</td>
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<td>Advanced Topics Race &amp; Intersectionality in Film</td>
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<td>History Of Western Fashion</td>
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<td>HIST 129D</td>
<td>A Cultural History of Russia</td>
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<td>Contemporary Issues in Film</td>
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<td>Introduction to Italian Cinema I</td>
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<td>American Popular Music: Jazz History</td>
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<td>MUSC 118D</td>
<td>Hip-Hop in Urban America</td>
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<td>MUSC 119A</td>
<td>World Music: Asia</td>
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<td>MUSC 119B</td>
<td>World Music: Africa</td>
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<td>MUSC 119C</td>
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<td>MUSC 127</td>
<td>The American Musical Theater</td>
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<td>MUSC 129</td>
<td>American Society and Its Music</td>
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<td>THEA 140</td>
<td>Black Drama in the African Diaspora</td>
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<td>THEA 170</td>
<td>African American Theatre and Culture</td>
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<td>Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present</td>
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#### AREA C2: HUMANITIES

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<td>Comparative Early Civilizations</td>
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<td>Elementary Mandarin</td>
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<td>DEAF 52</td>
<td>American Sign Language 2</td>
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<td>Asian Civilizations</td>
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<td>History of African Civilizations</td>
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<td>HIST 8</td>
<td>Islam and the West</td>
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<td>What We Ate: A Global History of Food</td>
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<td>World History I: to 1500</td>
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<td>Exploring World Religions</td>
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<td>Arts and Ideas of the West: Ancient to Medieval</td>
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<td>Arts and Ideas of the West: Renaissance to Modern</td>
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<td>Arts and Ideas of Asia: Ancient to Medieval</td>
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<td>Arts and Ideas of Asia: Medieval to Modern</td>
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<td>JAPN 1B</td>
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<td>Ethics</td>
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<td>PHIL 6</td>
<td>Introduction to Philosophy: Knowledge, World and Self</td>
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<td>History of Early Modern Philosophy</td>
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<td>The Meaning of Government: An Introduction to Political Ideas</td>
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Area D: The Individual and Society (p. 1109) (9 Units)

A minimum of two disciplines (e.g. ANTH, ECON, ETHN, HIST, POLS, RPTA, etc.) must be taken in Area D. Up to three units of the The American Institutions graduation requirement may be satisfied in Area D in either US History or US Constitution and California government (see American Institutions Graduation Requirement).

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<td>Sociology of Gender</td>
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<td>Labor and the American Social Structure</td>
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<td>SPAN 129</td>
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<td>Crosscultural Theory and Practice: Issues of Race, Gender and Class</td>
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<td>SWRK 134</td>
<td>Crimes Without Victims</td>
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<tr>
<td>SWRK 136</td>
<td>Poverty and Homelessness in America</td>
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</table>
Area E: Understanding Personal Development (p. 1111) (3 Units)

Only a single one-unit KINS activity course may be applied to this area. A one-unit KINS course cannot be combined with a two-unit DNCE course to meet this requirement. KINS 99 may be taken concurrently with any 1-unit KINS activity course for a total of 3 units of Area E GE credit.

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<td>KINS 99</td>
<td>Exercise for Healthy Living</td>
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<td>MGMT 21</td>
<td>First Year Seminar: Becoming an Educated Person</td>
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<td>MUSC 21</td>
<td>First Year Seminar: Becoming an Educated Person</td>
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<tr>
<td>NSM 21</td>
<td>First Year Seminar: Becoming an Educated Person</td>
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<td>NUFD 10</td>
<td>Nutrition And Wellness</td>
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<td>PHIL 21</td>
<td>First Year Seminar: Becoming an Educated Person</td>
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<td>PHOT 20</td>
<td>The Photographic Self</td>
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<td>PUBH 50</td>
<td>Healthy Lifestyles</td>
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<td>First Year Seminar: Becoming an Educated Person</td>
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<td>RPTA 22</td>
<td>Happiness, Quality of Life, and Recreation Over the Lifespan</td>
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<td>RPTA 32</td>
<td>Leadership and Group Development</td>
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<td>RPTA 34</td>
<td>The Outdoor Recreation Experience</td>
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<td>THEA 21</td>
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<tr>
<td>WLL 21</td>
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Total Units 9

Area F: Ethnic Studies (3 Units) (p. 1111)

Select one from the following:

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<td>ETHN 11</td>
<td>Introduction to Ethnic Studies</td>
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<td>ETHN 11H</td>
<td>Introduction to Ethnic Studies (Honors)</td>
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<td>ETHN 14</td>
<td>Introduction to Asian American Studies</td>
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<td>ETHN 30</td>
<td>Introduction to Chicano/Latino Studies</td>
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<td>ETHN 53</td>
<td>Introduction to Native American Studies</td>
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<td>ETHN 70</td>
<td>Introduction to Pan African Studies</td>
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<tr>
<td>ETHN 146</td>
<td>California Indian Studies</td>
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Total Units 3

Additional Graduation Requirements (p. 1111)

In addition to the 48-unit General Education Area Requirements, undergraduate students must also complete the following Graduation Requirements. Some courses that satisfy the GE Area Requirements may also satisfy Graduation Requirements.

S (p. 1111) Second Semester Composition Requirement

Second semester composition (ENGL 20, ENGL 20M or an approved equivalent) must be completed with a grade of C- or better.

Foreign Language Graduation Requirement (p. 1111)

Foreign language graduation requirement may be met by successfully completing appropriate coursework or passing proficiency exams. For details on challenge exams, please visit the Department of World Languages and Literatures website.
With a grade of "C-" or better, the following second semester or equivalent college-level language courses may satisfy both GE Area C2 units and the Foreign Language Requirement:

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<td>DEAF 52</td>
<td>American Sign Language 2</td>
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<tr>
<td>FREN 1B</td>
<td>Elementary French</td>
<td>4</td>
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<tr>
<td>FREN 2A</td>
<td>Intermediate French</td>
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<td>GERM 1B</td>
<td>Elementary German</td>
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<tr>
<td>ITAL 1B</td>
<td>Elementary Italian</td>
<td>4</td>
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<tr>
<td>JAPN 1B</td>
<td>Elementary Japanese</td>
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<tr>
<td>KORN 1B</td>
<td>Elementary Korean 1B</td>
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<tr>
<td>PUNJ 1B</td>
<td>Elementary Punjabi</td>
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<tr>
<td>RUSS 1B</td>
<td>Elementary Russian</td>
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</tr>
<tr>
<td>SPAN 1B</td>
<td>Elementary Spanish</td>
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**American Institutions (p. 1112)**

This requirement may be fulfilled by completing one course in US History and one course in the US Constitution and California Government from the following list. Up to three units of the American Institutions Requirement may also satisfy GE Area units requirements. In addition, students have the option of taking challenge exams in US History, and/or US Constitution and California State and Local Government. For details on challenge exams, please see the Departments of History or Political Science.

**US History**

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<td>Major Problems in U.S. History</td>
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<td>HIST 17A</td>
<td>United States History, 1607-1877</td>
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<td>HIST 17B</td>
<td>United States History, 1877-Present</td>
<td>3</td>
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<tr>
<td>HIST 18B</td>
<td>Becoming America: Immigrants in American History, 1877-Present</td>
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<td>HIST 151B</td>
<td>Founding Documents: American Democracy before 1800</td>
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<td>HIST 159</td>
<td>History of US Foreign Relations</td>
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<td>HIST 161</td>
<td>The African Vision</td>
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<td>HIST 162</td>
<td>Social History of the United States</td>
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<td>HIST 167</td>
<td>History of American Women</td>
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<td>HIST 177</td>
<td>The African-American Experience, 1603-Present</td>
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<td>WGS 110</td>
<td>Introduction to Feminist Movements in the United States</td>
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**US Constitution and CA Government**

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<td>American Governments</td>
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**CA Government** (California State and Local Government does not meet the U.S. Constitution requirement included in other government courses listed above but may be used by students who have taken a U.S. Constitution course outside of California. It fulfills the state and local government requirement only).

**Race & Ethnicity in American Society (p. 1112) (3-unit Supervenient Requirement)**

These courses also meet specific GE requirements in Areas C-E. One of these courses is required for students with catalog rights beginning Fall 1990 or later. The course may also be applied to the Area requirements.

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**Lower Division**

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<td>Health, Medicine, and Science in America, 1600-Present</td>
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<td>Becoming America: Immigrants in American History, 1877-Present</td>
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**Upper Division**

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<td>ASIA 111</td>
<td>Asian Diaspora and Migration</td>
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<td>American Criminal Justice and Minority Groups</td>
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<td>Dance Cultures Of America</td>
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<td>African-Caribbean Dance</td>
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<td>Economics of Racism</td>
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**Writing Intensive (p. 1113) and Graduate Writing Intensive (3-unit Supervenient Requirement)**

One Writing Intensive course, i.e., a course with comprehensive writing assignments (minimum 5,000 words) is required. Some Writing Intensive courses also satisfy a GE Area Requirement, a major requirement, or both. Prerequisite: Completion of GE Areas A2, A3, second semester composition (ENGL 20), junior standing, and either ENGL 109M/ ENGL 109W or completion of the WPJ. Successful completion of the writing intensive course with a grade of C- or better certifies the Graduation Writing Assessment Requirement (GWAR).

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**General Writing Intensive Courses**

**General Education Policies**

- All upper division GE courses require at least second semester sophomore standing (45 units) and completion of all GE Area A courses as prerequisites.
- At least 3 upper division GE units must be completed each in Area B, Area C, and Area D, for a total of at least 9 upper division GE units.
- Each course taken to satisfy Area A Basic Subjects, Area B4 Quantitative Reasoning, Second Semester Composition, Foreign Language, and Writing Intensive Requirements must be completed with a grade of “C-” or higher.
- A 2.0 cumulative GPA is required in General Education.

**Overlap Between General Education and Majors/Minors (Fall 1992 - Spring 2013)**

General Education requirements include five areas (A-E) in which you must take courses (area requirements), a nine-unit upper division requirement, a Race and Ethnicity requirement, and a Writing Intensive requirement. The overlap possibilities among these four aspects of General Education are outlined below. Students needing help applying these overlap policies are encouraged to seek advising through their College Advising Centers or through an advisor in the Academic Advising Center, Lassen Hall 1012.

1. A maximum of nine units of coursework from your major department may also be applied to the General Education requirements.
2. The Race and Ethnicity requirement can be met with an upper or lower division course from a student’s major or major department. Example: A Social Work major can use SWRK 102 to meet the Race and Ethnicity requirement.
3. The Writing Intensive requirement can be met with a course from the major or major department in specified majors, but not in all majors.
4. There is no restriction on the overlap of courses between GE and minor requirements*

**Note:** For Business majors, substitute “College of Business” for “major department.” For Social Science majors, substitute “History” for “major department.”

**Overlap Between General Education and Majors/Minors (Fall 2013 and Spring 2021)**

General Education requirements include five areas (A-E) in which you must take courses (area requirements), a nine-unit upper division requirement, a Race and Ethnicity requirement, and a Writing Intensive requirement. The overlap possibilities among these four aspects of General Education are outlined below. Students needing help applying these overlap policies are encouraged to seek advising through their College Advising Centers or through an advisor in the Academic Advising Center, Lassen Hall 1012.

1. There is no university restriction on the overlap of courses between GE and coursework approved for GE from your major department.
2. The Race and Ethnicity requirement can be met with an upper or lower division course from a student’s major or major department. Example: A Social Work major can use SWRK 102 to meet the Race and Ethnicity requirement.
3. The Writing Intensive requirement can be met with a course from the major or major department in specified majors, but not in all majors.
4. There is no restriction on the overlap of courses between GE and minor requirements

**Transfer Students**
Transfer students who have completed lower division General Education requirements at a California Community College, including those certified under the Intersegmental General Education Transfer Core Curriculum (IGETC), and/or those in receipt of an Associate Degree for Transfer (ADT), are required to complete 9 units of upper division GE at Sacramento State (or another CSU campus), meet the foreign language proficiency graduation requirement, meet the state “code” requirements in U.S. History, American and California Government, and the writing intensive requirement. These 9 units may or may not include the writing intensive requirement, depending on the policy of the student’s major department. Students who have not completed an approved course for the "Race and Ethnicity in American Society" category at a community college must take a course in this category at Sacramento State. In addition, all transfer students, except those fully certified as having completed the IGETC core curriculum, must complete the required second semester writing course or an approved course at a community college.

Note: Foreign Language Proficiency Requirement - If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or higher required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here (http://www.csus.edu/wll/for-students/graduation-requirement.html/).

For more information about IGETC requirements and/or Associate Degrees for Transfer, contact your community college counselor.

**Certificate in Global and Multicultural Perspectives**

Units required for Certificate: 12

**Program Description**
Total Units: 12 units minimum—9 of which must be upper division.
All courses in Section A and B are also approved for General Education.

All courses and petitions for substitution will be approved by the Office of Undergraduate Studies and will reflect the criteria and learning outcomes of the Certificate Program.

**Program Requirements**

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<td>The Nature of Culture</td>
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<td>Culture and Society in Mexico</td>
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<td>Peoples of Southeast Asia</td>
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<tr>
<td>GEOL 140</td>
<td>Geology and the Environment</td>
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</tr>
<tr>
<td>POLS/JOUR 134</td>
<td>War, Peace and the Mass Media</td>
<td></td>
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<tr>
<td>POLS 142</td>
<td>Government and Politics in Africa</td>
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</tr>
<tr>
<td>POLS 143</td>
<td>Causes of War, Causes of Peace</td>
<td></td>
</tr>
<tr>
<td>POLS 144</td>
<td>European Politics</td>
<td></td>
</tr>
<tr>
<td>POLS 147</td>
<td>Latin American Government and Politics</td>
<td></td>
</tr>
<tr>
<td>POLS 148</td>
<td>Governments and Politics in the Middle East</td>
<td></td>
</tr>
<tr>
<td>HIST 119</td>
<td>Europe Since 1945</td>
<td></td>
</tr>
<tr>
<td>HIST 130</td>
<td>The Fall Of Communism</td>
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</tr>
<tr>
<td>HIST 135B</td>
<td>Revolutionary and Modern Mexico</td>
<td></td>
</tr>
<tr>
<td>HIST 138A</td>
<td>Colonial Latin America</td>
<td></td>
</tr>
<tr>
<td>HIST 138B</td>
<td>Modern and Contemporary Latin America</td>
<td></td>
</tr>
<tr>
<td>HIST 143B</td>
<td>The Modern Middle East</td>
<td></td>
</tr>
<tr>
<td>HIST 146B</td>
<td>Modern Japan, 1800-present</td>
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</tr>
<tr>
<td>SOC 163</td>
<td>Conflict, Oil and Development in the Middle East</td>
<td></td>
</tr>
<tr>
<td>SOC 164</td>
<td>Sociology of Globalization</td>
<td></td>
</tr>
<tr>
<td>SWRK 102</td>
<td>Crosscultural Theory and Practice: Issues of Race, Gender and Class</td>
<td></td>
</tr>
<tr>
<td>WGS 110</td>
<td>Introduction to Women’s Movements in the United States</td>
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From GE Honors:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HONR 101</td>
<td>Science and the Public Good</td>
</tr>
<tr>
<td>HONR 103</td>
<td>Civic Engagement, Service Learning: Pursuing the Public Good</td>
</tr>
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</table>

**Global and Multicultural Perspectives on Arts and Humanities (3-6 Units)**

Select 3-6 units from the following:

**From Area C1 (Arts):**

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>ART 111</td>
<td>Latin American and Latino Art History</td>
</tr>
<tr>
<td>ART 117A</td>
<td>Art of India and Southeast Asia</td>
</tr>
<tr>
<td>ART 117B</td>
<td>Art of China and Japan</td>
</tr>
<tr>
<td>ASIA/HIST 140</td>
<td>Modern East Asian Cinema</td>
</tr>
<tr>
<td>DANCE 130</td>
<td>Appreciation and History of Dance</td>
</tr>
<tr>
<td>DANCE 131</td>
<td>Dance Cultures Of America</td>
</tr>
<tr>
<td>DANCE 132</td>
<td>African-Caribbean Dance</td>
</tr>
<tr>
<td>ENGL 191A</td>
<td>Masterpieces of the Cinema</td>
</tr>
<tr>
<td>HRS 180</td>
<td>The Film</td>
</tr>
<tr>
<td>HRS 181</td>
<td>Contemporary Issues in Film</td>
</tr>
<tr>
<td>ITAL 104A</td>
<td>Introduction to Italian Cinema I</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
</tr>
<tr>
<td>ANTH 121</td>
<td>Archaeology of Mexico</td>
</tr>
<tr>
<td>ANTH 134</td>
<td>Japanese Culture and Society</td>
</tr>
<tr>
<td>CHAD 141</td>
<td>History of Childhood: International and Interdisciplinary Perspectives</td>
</tr>
<tr>
<td>CHIN 120</td>
<td>Chinese Civilization</td>
</tr>
<tr>
<td>EDUC 121</td>
<td>European Economic History</td>
</tr>
<tr>
<td>ENGL 165D</td>
<td>Multicultural Children's Literature</td>
</tr>
<tr>
<td>ENGL 180Z</td>
<td>Topics in Multi-Ethnic Literatures</td>
</tr>
<tr>
<td>ENGL 185B</td>
<td>Twentieth Century Fiction by Women</td>
</tr>
<tr>
<td>ETHN 171</td>
<td>African Religions and Philosophies</td>
</tr>
<tr>
<td>FREN 120</td>
<td>French Civilization</td>
</tr>
<tr>
<td>GERM 140</td>
<td>Heroes, Dragons and Quests</td>
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<tr>
<td>GERM 141</td>
<td>German Mythology and Legend</td>
</tr>
<tr>
<td>GERM 142</td>
<td>German Folk Literature, Legend, and Lore</td>
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<tr>
<td>GERM 143</td>
<td>King Arthur and the Knights of the Round Table in Germany</td>
</tr>
<tr>
<td>GERM 150</td>
<td>German Civilization: Beginning to 16th Century</td>
</tr>
<tr>
<td>GERM 151</td>
<td>German Civilization: 17th Century to Present</td>
</tr>
<tr>
<td>HIST 103</td>
<td>Mediterranean Europe: From the Renaissance to the European Union</td>
</tr>
<tr>
<td>HIST 105</td>
<td>Great Ages and Issues in Modern European History</td>
</tr>
<tr>
<td>HIST 106</td>
<td>Everyday Life and Society in Antiquity</td>
</tr>
<tr>
<td>HIST 110</td>
<td>The Ancient Near East: A Cultural History</td>
</tr>
<tr>
<td>HIST 111</td>
<td>Ancient Greece</td>
</tr>
<tr>
<td>HIST 112</td>
<td>Ancient Rome</td>
</tr>
<tr>
<td>HIST 113</td>
<td>Early Medieval Europe</td>
</tr>
<tr>
<td>HIST 122A</td>
<td>History of Women in Western Civilization, Prehistory-Middle Ages</td>
</tr>
<tr>
<td>HIST 122B</td>
<td>History of Women in Western Civilization, Renaissance-Present</td>
</tr>
<tr>
<td>HIST 142</td>
<td>History of Women in Africa</td>
</tr>
<tr>
<td>HIST 143A</td>
<td>Middle Eastern History to 1800</td>
</tr>
<tr>
<td>HIST 146A</td>
<td>Cultural History of Japan to 1800</td>
</tr>
<tr>
<td>HIST 146C</td>
<td>The History of Manga</td>
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<tr>
<td>HIST/HRS 147</td>
<td>History of Buddhism</td>
</tr>
<tr>
<td>HIST 148A</td>
<td>China: Antiquity to 1600 AD</td>
</tr>
<tr>
<td>HRS 136</td>
<td>Birth Of The Modern</td>
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<tr>
<td>HRS 137</td>
<td>Global Crossings: Art and Culture 1945 to Present</td>
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<tr>
<td>HRS 140</td>
<td>Introduction to Islamic Cultures</td>
</tr>
<tr>
<td>HRS 145</td>
<td>African Arts and Cultures</td>
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<tr>
<td>HRS 151</td>
<td>World Mythology</td>
</tr>
<tr>
<td>HRS 152</td>
<td>Great Mystics of the World</td>
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<tr>
<td>HRS 171</td>
<td>Introduction to the East Asian World</td>
</tr>
<tr>
<td>HRS 172</td>
<td>The Classical Culture of China</td>
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<tr>
<td>HRS 173</td>
<td>Chinese Philosophy and Religion</td>
</tr>
<tr>
<td>HRS 174</td>
<td>Modern Japanese Literature and Culture</td>
</tr>
<tr>
<td>HRS 183</td>
<td>World Religions and Cultures in Cinema</td>
</tr>
<tr>
<td>HRS 188</td>
<td>Fantasy and Romance</td>
</tr>
<tr>
<td>ITAL 130</td>
<td>Italian Civilization: The Dialogue Form It's Origins and European Context</td>
</tr>
<tr>
<td>PHIL 145A</td>
<td>Chinese Philosophy</td>
</tr>
<tr>
<td>PHIL 145B</td>
<td>Philosophies Of India</td>
</tr>
<tr>
<td>RUSS 120</td>
<td>Russian Civilization</td>
</tr>
<tr>
<td>SOC 135</td>
<td>Sociology of Popular Culture</td>
</tr>
<tr>
<td>SOC 160</td>
<td>Asian Societies</td>
</tr>
<tr>
<td>SOC 162</td>
<td>Middle Eastern Societies and Culture</td>
</tr>
<tr>
<td>WGS 121</td>
<td>Women Of The Middle East</td>
</tr>
</tbody>
</table>

From GE Honors:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONR 102</td>
<td>The Public Good Through the Visual and Performing Arts</td>
</tr>
</tbody>
</table>

**Global and Multicultural Perspectives in the Discipline (3 Units)**

Select 3 units

**Total Units**: 9-15

---

1 3 units may be lower or upper division. Courses to be selected in consultation with major advisor.

---

**General Education (Fall 2018 to Spring 2021)**

Click here for General Education Requirements prior to Fall 2018. (p. 1132)

One of the principles on which a modern university rests is the assumption that there is an important difference between learning to make a living and building the foundation for a life. While the first goal is important, the second is fundamental.

In focusing on the students’ development as whole or “educated” people, a university distinguishes itself from a trade school. The goal of a university education is not simply the acquisition and application of knowledge, but the creation of people who firmly grasp the worth of clear thinking and know how to do it; who understand and appreciate the differences between peoples and cultures as well as their similarities; who have a sense of history and social forces; who can express thought clearly and have quantitative ability; who know something about the arts as well as how to enjoy them; who can talk and think intelligently about the physical and life sciences, the humanities, and literature; and, above all, who have the desire and capability for learning. This goal is why a university degree is so highly valued by individuals, employers, and the community at large.

The Sacramento State General Education Program is designed to educate in this holistic sense. Thus, it is not simply a series of courses to complete or hoops for students to jump through as they complete the courses in their major. Rather, general education lies at the heart of what a university education is all about.

Therefore students should carefully select courses and actively seek subject areas that are new and may challenge their world views or...
cherished assumptions and offer new experiences, such as inquiry-based or community-based learning. In short, students should not take the easy way out. This is their opportunity to lay the foundation for the rest of their lives, and to define themselves as educated members of the human community. Their time at the university is precious and the General Education Program has been designed to help them begin the process of becoming truly educated people. In deciding to pursue a university degree, they have chosen well and should make the best use of the opportunities open to them.

**Objectives**

Upon completion of the General Education Program requirements, students will be expected to:

- read, write, and understand relatively complex and sophisticated English prose;
- construct a non-fallacious verbal argument, recognize fallacious arguments, and follow the verbal arguments of others;
- find and use common information resources, engage in specialized library research, use computers, and seek out appropriate expert opinion and advice;
- use mathematical ideas to accomplish a variety of tasks;
- gain a general understanding of current theory, concepts, knowledge, and scientific methods pertaining to the nature of the physical universe, ecosystems, and life on this planet;
- develop an acquaintance and understanding of cultures and major dynamic social institutions which affect one's life,
- possess a significant and useful understanding of peoples from a diversity of cultures and backgrounds, including women and ethnic and other minority groups who have been the objects of prejudice and adverse discrimination within our society.

In addition to these basic skills, courses in the sciences, arts, humanities, and social sciences have been selected to help students attain the university’s baccalaureate learning goals and to satisfy particular GE Area Learning Outcomes. The Baccalaureate Learning Goals include:

- **Competence in the Disciplines:** The ability to demonstrate the competencies and values listed below in at least one major field of study and to demonstrate informed understandings of other fields, drawing on the knowledge and skills of disciplines outside the major.
- **Knowledge of Human Cultures and the Physical and Natural World** through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts. Focused by engagement with big questions, contemporary and enduring.
- **Intellectual and Practical Skills, Including:** inquiry and analysis, critical, philosophical, and creative thinking, written and oral communication, quantitative literacy, information literacy, teamwork and problem solving, practiced extensively across the curriculum, in the context of progressively more challenging problems, projects, and standards for performance.
- **Personal and Social Responsibility, Including:** civic knowledge and engagement—local and global, intercultural knowledge and competence¹, ethical reasoning and action, foundations and skills for lifelong learning anchored through active involvement with diverse communities and real-world challenges.
- **Integrative Learning**, Including: synthesis and advanced accomplishment across general and specialized studies.

1 Understanding of and respect for those who are different from oneself and the ability to work collaboratively with those who come from diverse cultural backgrounds.

2 Interdisciplinary learning, learning communities, capstone or senior studies in the General Education program and/or in the major connecting learning goals with the content and practices of the educational programs including GE, departmental majors, the co-curriculum and assessments.

Sacramento State General Education courses are designed, selected, and approved by the faculty to meet these program objectives. Students will benefit from consultation with the Academic Advising Center or advisors in their major departments in planning their General Education course choices. Students may search the online Schedule of Classes by Area or other specification(s) for currently available GE courses.

**Course Requirements**

The following courses have been approved to meet the 48-unit General Education pattern required of Sacramento State students. At least 9 units **must be in upper division GE courses (100-199) from Areas B, C, and D** taken after you complete 45 units of coursework. Enrollment in upper division GE courses is limited to students who have completed Areas A1, A2, A3. At least nine units of GE must be taken in residence (i.e., at Sacramento State). In addition, a second semester composition course and demonstration of proficiency in a foreign language are required for graduation.

**General Education/Graduation Requirements Checklist**

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements: (9 units must be taken at Sacramento State)</td>
<td>48</td>
</tr>
<tr>
<td><strong>Lower Division:</strong> A total of 39 units of General Education Courses must be taken at the lower-division level (courses numbered 1-99) covering Areas A, B, C, D, and E.</td>
<td>39</td>
</tr>
<tr>
<td><strong>Upper Division:</strong> A total of 9 units of General Education Courses must be taken at the upper-division level (courses numbered 100-199) from Areas B, C, or D. These units should be completed within the total unit requirements for Areas B, C, or D.</td>
<td>9</td>
</tr>
<tr>
<td><strong>Basic Subjects</strong> (Include 3 lower-division courses)</td>
<td>9</td>
</tr>
<tr>
<td>A1. Oral Communication &quot;C- or better required&quot;</td>
<td>3</td>
</tr>
<tr>
<td>A2. Written Communication &quot;C- or better required&quot;</td>
<td>3</td>
</tr>
</tbody>
</table>
### General Education (Fall 2018 to Spring 2021)

#### Code Title Units

<table>
<thead>
<tr>
<th>A3. Critical Thinking &quot;C- or better required&quot;</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Universe &amp; Its Life Forms (Must include 1 upper-division course)</td>
<td>12</td>
</tr>
<tr>
<td>B1. Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2. Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3. Lab NOTE: Lab experience to be taken with one of the following: B1, B2 or B5.</td>
<td>3</td>
</tr>
<tr>
<td>B4. Math Concepts &quot;C- or better required&quot;</td>
<td>3</td>
</tr>
<tr>
<td>B5. Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area &amp; upper-division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Arts &amp; Humanities (Must include 1 upper-division course)</td>
<td>12</td>
</tr>
<tr>
<td>C1. Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2. Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2. Any Area Course C. - Note: recommended (if needed): 6 units of the Foreign Language requirement in C2 which double-counts for the Foreign Language proficiency requirement.</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2. Any Area C Course - Take upper-division course to complete Area &amp; upper-division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>The Individual &amp; Society - Minimum of THREE disciplines must be taken in Area D (Must include 1 upper-division course)</td>
<td>12</td>
</tr>
<tr>
<td>D. Any Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D. Any Area D Course - Take upper-division course to complete Area &amp; upper-division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>D. Any Area D Course - Note: Recommend a U.S. History course which double-counts for the American Institutions Graduation Requirement.</td>
<td>3</td>
</tr>
<tr>
<td>Understanding Personal Development (Include 1 lower-division course)</td>
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<tr>
<td>E. Any Area E course</td>
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</table>

### Graduation Requirements

<table>
<thead>
<tr>
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<tbody>
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<td>A1: Oral Communication</td>
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<tr>
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<tr>
<td>COMS 4</td>
<td>Introduction to Public Speaking</td>
<td></td>
</tr>
<tr>
<td>COMS 5</td>
<td>The Communication Experience</td>
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</tr>
<tr>
<td>A2: Written Communication</td>
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</table>
Select one of the following:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ENGL 5</td>
<td>Accelerated Academic Literacies</td>
</tr>
<tr>
<td>ENGL 5M</td>
<td>Accelerated Academic Literacies - Multilingual</td>
</tr>
<tr>
<td>ENGL 11</td>
<td>Academic Literacies II</td>
</tr>
<tr>
<td>ENGL 11M</td>
<td>Academic Literacies II-Multilingual</td>
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</table>

**A3: Critical Thinking**  
3

Select one of the following:

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<tr>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ANTH 4</td>
<td>Language, Culture, and Critical Thinking</td>
</tr>
<tr>
<td>COMS 2</td>
<td>Argumentation</td>
</tr>
<tr>
<td>EDUC 10</td>
<td>Critical Thinking and the Educated Person</td>
</tr>
<tr>
<td>EDUC 10H</td>
<td>Critical Thinking and the Educated Person: Honors</td>
</tr>
<tr>
<td>ENVS 11</td>
<td>Environmental Issues and Critical Thinking</td>
</tr>
<tr>
<td>HIST 10</td>
<td>History's Mysteries: Thinking Critically about the Past</td>
</tr>
<tr>
<td>JOUR 50</td>
<td>Media Literacy and Critical Thinking</td>
</tr>
<tr>
<td>PHIL 4</td>
<td>Critical Thinking</td>
</tr>
<tr>
<td>PHYS 30</td>
<td>Science and Pseudoscience</td>
</tr>
<tr>
<td>SOC 8</td>
<td>Sense and Nonsense in Social Issues and Research</td>
</tr>
</tbody>
</table>

**Total Units**  
9

**Area B: The Physical Universe and Its Life Forms (p. 1119) (12 Units)**

At least 3 units must be taken in each of Areas B1, B2 and B4. At least one course with a laboratory component must be taken in Area B1 or B2.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 4A</td>
<td>Introduction to the Solar System</td>
</tr>
<tr>
<td>ASTR 4B</td>
<td>Introduction to Stars, Galaxies, and Cosmology</td>
</tr>
<tr>
<td>ASTR 4C</td>
<td>Introduction to Astrobiology</td>
</tr>
<tr>
<td>ASTR 6</td>
<td>Astronomical Observation Laboratory</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM 6A</td>
<td>Introduction to General Chemistry</td>
</tr>
<tr>
<td>GEOG 1</td>
<td>Physical Geography: The Distribution of Natural Phenomena</td>
</tr>
<tr>
<td>GEOG 5</td>
<td>Violent Weather/Changing Atmosphere</td>
</tr>
<tr>
<td>GEOG 11</td>
<td>Laboratory in Physical Geography</td>
</tr>
<tr>
<td>GEOL 5</td>
<td>Geology Of Mexico</td>
</tr>
<tr>
<td>GEOL 7</td>
<td>Natural Disasters</td>
</tr>
<tr>
<td>GEOL 8</td>
<td>Earth Science</td>
</tr>
<tr>
<td>GEOL 8L</td>
<td>Earth Science Lab</td>
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<tr>
<td>GEOL 10</td>
<td>Physical Geology</td>
</tr>
<tr>
<td>GEOL 10L</td>
<td>Physical Geology Lab</td>
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<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
</tr>
<tr>
<td>PHYS 10</td>
<td>Physics In Our World</td>
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<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
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**AREA B2: LIFE FORMS**  
3

Select one of the following:

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<tr>
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<tr>
<td>ANTH 1</td>
<td>Introduction to Biological Anthropology</td>
</tr>
<tr>
<td>ANTH 1A</td>
<td>Biological Anthropology Laboratory</td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
</tr>
</tbody>
</table>

**AREA B3: LAB**

Select one from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 6</td>
<td>Astronomical Observation Laboratory</td>
</tr>
<tr>
<td>ANTH 1A</td>
<td>Biological Anthropology Laboratory</td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
</tr>
<tr>
<td>BIO 15L</td>
<td>Laboratory Investigations in Biology</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
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**AREA B4: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING**  
3

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**AREA B5: FURTHER STUDIES IN PHYSICAL SCIENCE, LIFE FORMS, AND QUANTITATIVE REASONING**  
3

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Area C: The Arts and Humanities (p. 1120) (12 Units)

At least 3 units must be taken from Areas C1 (ARTS) and C2 (HUMANITIES).

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Upper Division

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1 Completion of ALEKS (unless exempt) is a prerequisite for courses in this Area. In addition, passage of course-based diagnostic exams is required. A grade of "C-" or better is required in all courses taken in Area B4.
### THEA 144
Women and Theatre: Staging Diversity (WGS 144)

### THEA 170
African American Theatre and Culture

### THEA 173
Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present

### THEA 174
Multicultural Perspectives in American Theatre

### THEA 175
Multicultural Perspectives in American Film

### WGS 146

### AREA C2: HUMANITIES

Select 3-9 units from the following two divisions

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## Area D: The Individual and Society

(p. 1122) (12 Units)

Minimum of three disciplines (e.g. ANTH, ECON, ETHN, FACS, GOVT, HIST, RPTA, etc.) must be taken in Area D. The American Institutions graduation requirement may be satisfied in Area D with 3 units of US history courses and 3 units of US Constitution and CA government courses (see Graduation Requirements: American Institutions).

### Code   Title                                                                 | Units |
| Select 12 units from the following two divisions | 12 |

### Lower Division

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**Upper Division**

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**Total Units:** 12

### Area E: Understanding Personal Development (p. 1124) (3 Units)

Only a single one-unit KINS activity course may be applied to this area. A one-unit KINS course cannot be combined with a two-unit DNCE course to meet this requirement. KINS 99 may be taken concurrently with any 1 unit KINS activity course for a total of 3 units of Area E GE credit.

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**Total Units:** 3
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Area D

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<td>Women Cross-Culturally</td>
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<td>HIST 146B</td>
<td>Modern Japan, 1800-present</td>
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<td>China, 1600 to Present</td>
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<td>The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present</td>
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<td>HIST 175A</td>
<td>Sex, Population, and Birth Control in America</td>
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<td>HIST 177</td>
<td>The African-American Experience, 1603-Present</td>
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<td>Women in Film and American Culture</td>
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<td>Causes of War, Causes of Peace</td>
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<td>POLS 144</td>
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<td>Latin American Government and Politics</td>
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<td>Governments and Politics in the Middle East</td>
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<td>POLS 150</td>
<td>American Governments</td>
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<td>POLS 163</td>
<td>Introduction to Black Politics in the U.S.</td>
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<tr>
<td>POLS 165</td>
<td>Politics of the Underrepresented</td>
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<td>POLS 169A</td>
<td>Science, Technology, and Politics</td>
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<td>Psychology of Multicultural Groups</td>
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<td>SOC 106</td>
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<td>SOC 120</td>
<td>Ethnic and Race Relations</td>
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<td>Sociology of Gender</td>
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<td>Delinquency</td>
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<td>Labor and the American Social Structure</td>
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<td>SPAN 129</td>
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<td>SWRK 102</td>
<td>Crosscultural Theory and Practice: Issues of Race, Gender and Class</td>
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<td>Theories of Criminal Behavior</td>
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<td>Poverty and Homelessness in America</td>
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<tr>
<td>SWRK 150</td>
<td>Welfare In America</td>
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</table>
Additional Graduation Requirements (p. 1129)
The 48-unit General Education requirement does not include the following two graduation requirements:

- Second semester composition (ENGL 20, ENGL 20M or an approved equivalent) must be completed with a grade of C- or better.
- Foreign language graduation requirement may be met by successfully completing appropriate coursework or passing proficiency exams. With a grade of "C-" or better, the following second semester or equivalent college-level language courses may satisfy both GE Area C2 units and the Foreign Language Requirement:

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<td>American Sign Language 2</td>
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<td>FREN 1B</td>
<td>Elementary French</td>
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<tr>
<td>FREN 2A</td>
<td>Intermediate French</td>
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<tr>
<td>GERM 1B</td>
<td>Elementary German</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 1B</td>
<td>Elementary Italian</td>
<td>4</td>
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<tr>
<td>JAPN 1B</td>
<td>Elementary Japanese</td>
<td>5</td>
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<tr>
<td>KORN 1B</td>
<td>Elementary Korean 1B</td>
<td>5</td>
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<tr>
<td>PUNJ 1B</td>
<td>Elementary Punjabi</td>
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<tr>
<td>RUSS 1B</td>
<td>Elementary Russian</td>
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</tr>
<tr>
<td>SPAN 1B</td>
<td>Elementary Spanish</td>
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</table>

American Institutions (p. 1129)
This requirement may be fulfilled by completing one Government and one US History course from the following list. The courses below also satisfy Area D units. In addition, students have the option of taking challenges in US History, US Constitution and California State and Local Government. For details on challenges exam, please visit the Department of World Languages and Literatures website (https://www.csus.edu/college/artslanguages/world-languages-literatures/foreign-language-requirement.html).

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<tr>
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<td>Major Problems in U.S. History</td>
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<td>HIST 17A</td>
<td>United States History, 1607-1877</td>
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<td>United States History, 1877-Present</td>
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<td>HIST 159</td>
<td>History of US Foreign Relations</td>
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<td>HIST 161</td>
<td>The American Vision</td>
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<td>HIST 162</td>
<td>Social History of the United States</td>
<td>3</td>
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| HIST 167        | History of American Women                 | 3     |
| HIST 177        | The African-American Experience, 1603-Present | 3 |
| WGS 110         |                                            |       |

US Constitution and CA Government

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<td>POLS 113</td>
<td>American Political Thought</td>
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</tr>
<tr>
<td>POLS 150</td>
<td>American Governments</td>
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</table>

CA Government (California State and Local Government does not meet the U.S. Constitution requirement included in other government courses listed above but may be used by students who have taken a U.S. Constitution course outside of California. It fulfills the state and local government requirement only).

<table>
<thead>
<tr>
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<tr>
<td>POLS 180</td>
<td>California State and Local Government</td>
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</table>

Race & Ethnicity in American Society (p. 1129) (3-unit Supervenient Requirement)
These courses also meet specific GE requirements in Areas C-E. One of these courses is required for students with catalog rights beginning Fall 1990 or later. The course may also be applied to the Area requirements.

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<td>ETHN 11H</td>
<td>Introduction to Ethnic Studies (Honors)</td>
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<td>ETHN 30</td>
<td>Introduction to Chicano/Latino Studies</td>
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<td>The Family and Social Issues</td>
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<td>United States History, 1877-Present</td>
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Lower Division

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<td>ANTH 186</td>
<td>Culture and Poverty</td>
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<td>CRJ 117</td>
<td>American Criminal Justice and Minority Groups</td>
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<td>DANCE 131</td>
<td>Dance Cultures Of America</td>
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<td>DANCE 132</td>
<td>African-Caribbean Dance</td>
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<td>ECON 181</td>
<td>Economics of Racism</td>
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<td>EDUC 121</td>
<td>Multicultural Children's Literature</td>
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<td>American Identities: In the Intersection of Race, Gender, and Ethnicity</td>
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<td>Asian American Literature</td>
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Upper Division
ETHN 100  Ethnic America  3
ETHN 131  La Raza Studies  3
ETHN 133  Crosscultural Studies  3
ETHN/ POLS ASSOCIATE DEAN, COLLEGE OF ARTS AND LETTERS 141  Politics of the African Diaspora  3
FSHD 150  Family Stress and Coping: Multicultural Focus  3
HIST/ HRS ASSOCIATE DEAN, COLLEGE OF ARTS AND LETTERS 168  Images Of America  3
HIST 173  The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present  3
HIST 177  The African-American Experience, 1603-Present  3
HIST 178  Mexican-American History  3
HRS 161  Multicultural America  3
KINS 118A  Martial Arts: Karate  3
KINS 118B  Martial Arts: Tae Kwon Do  3
KINS 118C  Martial Arts: Tai Chi  3
POLS 163  Introduction to Black Politics in the U.S.  3
POLS 165  Politics of the Underrepresented  3
PSYC 135  Psychology of Multicultural Groups  3
SOC 118  Chicano Community  3
SOC 120  Ethnic and Race Relations  3
SWRK 102  Crosscultural Theory and Practice: Issues of Race, Gender and Class  3
THEA 115A  Multicultural Puppetry  3
THEA 144  Women and Theatre: Staging Diversity (WGS 144)  3
THEA 174  Multicultural Perspectives in American Theatre  3
THEA 175  Multicultural Perspectives in American Film  3
WGS 136  3
WGS 137

Writing Intensive (p. 1130) (3-unit Supervenient Requirement)

One Writing Intensive course, i.e., a course with comprehensive writing assignments (minimum 5,000 words) is required. This requirement may be met either with a specifically marked GE courses or, in certain majors, with a course required for the major. (Writing Intensive courses taken to meet major requirements do not apply to the nine-unit upper division requirement in GE.) Prerequisite: Completion of GE Areas A2, A3, second semester composition (ENGL 20), junior standing, and ENGL 109M/ ENGL 109W. Students who take the WPJ instead of initially taking ENGL 109M/ ENGL 109W must score 70, 71, or 80. Students with a lower WPJ score will have to complete other prerequisites determined by their score. Successful completion of the writing intensive course with a grade of C- or better certifies the Graduation Writing Assessment Requirement (GWAR).


General Education Policies

- All upper division GE courses require at least second semester sophomore standing (45 units) and completion of all GE Area A courses as prerequisites.

- At least 9 units must be chosen from upper division GE courses (100-199) and at least 9 units must be taken in residence at Sacramento State (these units may overlap).

- Each course taken to satisfy the Area A Basic Subjects and Area B4 Quantitative Reasoning must be completed with a grade of "C-" or higher.

- A 2.0 cumulative GPA is required in General Education.

Overlap Between General Education and Majors/Minors

(Fall 1992 - Spring 2013)

General Education requirements include five areas (A-E) in which you must take courses (area requirements), a nine-unit upper division requirement, a Race and Ethnicity requirement, and a Writing Intensive requirement. The overlap possibilities among these four aspects of General Education are outlined below. Students needing help applying these overlap policies are encouraged to seek advising through their College Advising Centers or through an advisor in the Academic Advising Center, Lassen Hall 1012.

1. A maximum of nine units of coursework from your major department may also be applied to the General Education requirements.

2. The Race and Ethnicity requirement can be met with an upper or lower division course from a student’s major or major department. Example: A Social Work major can use SWRK 102 to meet the Race and Ethnicity requirement.

3. The Writing Intensive requirement can be met with a course from the major or major department in specified majors, but not in all majors.

4. There is no restriction on the overlap of courses between GE and minor requirements*

Note: For Business Administration majors, substitute “College of Business” for “major department.” For Social Science majors, substitute “History” for “major department.”

Overlap Between General Education and Majors/Minors (Fall 2013 and Later)

General Education requirements include five areas (A-E) in which you must take courses (area requirements), a nine-unit upper division requirement, a Race and Ethnicity requirement, and a Writing Intensive requirement. The overlap possibilities among these four aspects of General Education are outlined below. Students needing help applying these overlap policies are encouraged to seek advising through their College Advising Centers or through an advisor in the Academic Advising Center, Lassen Hall 1012.

1. There is no university restriction on the overlap of courses between GE and coursework approved for GE from your major department.

2. The Race and Ethnicity requirement can be met with an upper or lower division course from a student’s major or major department. Example: A Social Work major can use SWRK 102 to meet the Race and Ethnicity requirement.

3. The Writing Intensive requirement can be met with a course from the major or major department in specified majors, but not in all majors.

4. There is no restriction on the overlap of courses between GE and minor requirements.

Transfer Students

Transfer students who have completed lower division General Education requirements at a California Community College, including those certified under the Intersegmental General Education Transfer Core
Curriculum (IGETC), and/or those in receipt of an Associate Degree for Transfer (ADT), are required to complete 9 units of upper division GE at Sacramento State, meet the foreign language proficiency graduation requirement, meet the state “code” requirements in U.S. History, American and California Government, and the writing intensive requirement. These 9 units may or may not include the writing intensive requirement, depending on the policy of the student’s major department. Students who have not completed an approved course for the “Race and Ethnicity in American Society” category at a community college must take a course in this category at Sacramento State. In addition, all transfer students, except those fully certified as having completed the IGETC core curriculum, must complete the required second semester writing course or an approved course at a community college.

Note: Foreign Language Proficiency Requirement - If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or higher required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here (http://www.csus.edu/wll/for-students/graduation-requirement.html/).

For more information about IGETC requirements and/or Associate Degrees for Transfer, contact your community college counselor.

General Education (Prior to Fall 2018)

One of the principles on which a modern university rests is the assumption that there is an important difference between learning to make a living and building the foundation for a life. While the first goal is important, the second is fundamental.

In focusing on the students’ development as whole or “educated” people, a university distinguishes itself from a trade school. The goal of a university education is not simply the acquisition and application of knowledge, but the creation of people who firmly grasp the worth of clear thinking and know how to do it; who understand and appreciate the differences between peoples and cultures as well as their similarities; who have a sense of history and social forces; who can express thought clearly and have quantitative ability; who know something about the arts as well as how to enjoy them; who can talk and think intelligently about the physical and life sciences, the humanities, and literature; and, above all, who have the desire and capability for learning. This goal is why a university degree is so highly valued by individuals, employers, and the community at large.

The Sacramento State General Education Program is designed to educate in this holistic sense. Thus, it is not simply a series of courses to complete or hoops for students to jump through as they complete the courses in their major. Rather, general education lies at the heart of what a university education is all about.

Therefore students should carefully select courses and actively seek subject areas that are new and may challenge their world views or cherished assumptions and offer new experiences, such as inquiry-based or community-based learning. In short, students should not take the easy way out. This is their opportunity to lay the foundation for the rest of their lives, and to define themselves as educated members of the human community. Their time at the university is precious and the General Education Program has been designed to help them begin the process of becoming truly educated people. In deciding to pursue a university degree, they have chosen well and should make the best use of the opportunities open to them.

Objectives

Upon completion of the General Education Program requirements, students will be expected to:

- read, write, and understand relatively complex and sophisticated English prose;
- construct a non-fallacious verbal argument, recognize fallacious arguments, and follow the verbal arguments of others;
- find and use common information resources, engage in specialized library research, use computers, and seek out appropriate expert opinion and advice;
- use mathematical ideas to accomplish a variety of tasks;
- gain a general understanding of current theory, concepts, knowledge, and scientific methods pertaining to the nature of the physical universe, ecosystems, and life on this planet;
- develop an acquaintance and understanding of cultures and major dynamic social institutions which affect one’s life;
- possess a significant and useful understanding of peoples from a diversity of cultures and backgrounds, including women and ethnic and other minority groups who have been the objects of prejudice and adverse discrimination within our society.

In addition to these basic skills, courses in the sciences, arts, humanities, and social sciences have been selected to help students attain the university’s baccalaureate learning goals and to satisfy particular GE Area Learning Outcomes. The Baccalaureate Learning Goals include:

- Competence in the Disciplines: The ability to demonstrate the competencies and values listed below in at least one major field of study and to demonstrate informed understandings of other fields, drawing on the knowledge and skills of disciplines outside the major.
- Knowledge of Human Cultures and the Physical and Natural World through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts. Focused by engagement with big questions, contemporary and enduring.
- Intellectual and Practical Skills, Including: inquiry and analysis, critical, philosophical, and creative thinking, written and oral communication, quantitative literacy, information literacy, teamwork and problem solving, practiced extensively across the curriculum, in the context of progressively more challenging problems, projects, and standards for performance.
- Personal and Social Responsibility, Including: civic knowledge and engagement—local and global, intercultural knowledge and competence, ethical reasoning and action, foundations and skills for lifelong learning anchored through active involvement with diverse communities and real-world challenges.
- Integrative Learning, Including: synthesis and advanced accomplishment across general and specialized studies.

1 Understanding of and respect for those who are different from oneself and the ability to work collaboratively with those who come from diverse cultural backgrounds.
Interdisciplinary learning, learning communities, capstone or senior studies in the General Education program and/or in the major connecting learning goals with the content and practices of the educational programs including GE, departmental majors, the co-curriculum and assessments.

Sacramento State General Education courses are designed, selected, and approved by the faculty to meet these program objectives. Students will benefit from consultation with the Academic Advising Center or advisors in their major departments in planning their General Education course choices. Students may search the online Schedule of Classes by Area or other specification(s) for currently available GE courses.

**Course Requirements**

The following courses have been approved to meet the 48-unit General Education pattern required of Sacramento State students. At least 9 units must be in upper division GE courses (100-199) taken after you complete 60 units of coursework. Enrollment in upper division GE courses is limited to students who have completed Areas A1, A2, A3, and have taken at least 45 units (not limited to GE classes). At least nine units of GE must be taken in residence (i.e., at Sacramento State). In addition, a second semester composition course and demonstration of proficiency in a foreign language are required for graduation.

**General Education/Graduation Requirements Checklist**

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td>(9 units must be taken at Sacramento State)</td>
</tr>
<tr>
<td>Lower Division: A total of 39 units of General Education Courses must be taken at the lower-division level (courses numbered 1-99) covering Areas A, B, C, D, and E.</td>
<td>39</td>
</tr>
<tr>
<td>Upper Division: A total of 9 units of General Education Courses must be taken at the upper-division level (courses numbered 100-199) from Areas B, C, D, or E. These units should be completed within the total unit requirements for Areas B, C, D, or E.</td>
<td>9</td>
</tr>
<tr>
<td>Basic Subjects</td>
<td>9</td>
</tr>
<tr>
<td>A1. Oral Communication &quot;C- or better required&quot;</td>
<td>3</td>
</tr>
<tr>
<td>A2. Written Communication &quot;C- or better required&quot;</td>
<td>3</td>
</tr>
<tr>
<td>A3. Critical Thinking &quot;C- or better required&quot;</td>
<td>3</td>
</tr>
<tr>
<td>Physical Universe &amp; Its Life Forms</td>
<td>12</td>
</tr>
<tr>
<td>B1. Physical Science</td>
<td>3</td>
</tr>
<tr>
<td>B2. Life Forms</td>
<td>3</td>
</tr>
<tr>
<td>B3. Lab NOTE: Lab experience to be taken with one of the following: B1, B2 or B5.</td>
<td></td>
</tr>
<tr>
<td>B4. Math Concepts &quot;C- or better required&quot;</td>
<td>3</td>
</tr>
<tr>
<td>B5. Additional Course (Any B to reach 12 units) - Note: Possible upper-division course to complete Area &amp; upper-division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Arts &amp; Humanities</td>
<td>12</td>
</tr>
<tr>
<td>C1. Arts</td>
<td>3</td>
</tr>
<tr>
<td>C2. Humanities</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2. Any Area Course C. - Note: recommended (if needed): 6 units of the Foreign Language requirement in C2 which double-counts for the Foreign Language proficiency requirement.</td>
<td>3</td>
</tr>
<tr>
<td>C1/C2. Any Area C Course - Note: Possible upper-division course to complete Area &amp; upper-division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>*The Individual &amp; Society - Minimum of THREE disciplines (e.g. ANTH, ECON, ETHN, GOVT, HIST, RPTA, etc.) must be taken in Area D</td>
<td>12</td>
</tr>
<tr>
<td>D. Any Area D Course</td>
<td>3</td>
</tr>
<tr>
<td>D. Any Area D Course - Note: possible upper-division course to complete Area &amp; upper-division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>D. Any Area D Course - Note: Recommend a U.S. History course which double-counts for the American Institutions Graduation Requirement.</td>
<td>3</td>
</tr>
<tr>
<td>D. Any Area D Course - Note: Recommend a U.S. Constitution and CA Government course which double-counts for the American Institutions Graduation Requirement.</td>
<td>3</td>
</tr>
<tr>
<td>Understanding Personal Development</td>
<td>3</td>
</tr>
<tr>
<td>E. Any Area E course - Note: Possible upper-division course to complete Area &amp; upper-division requirements.</td>
<td>3</td>
</tr>
<tr>
<td>Graduation Requirements</td>
<td>Units</td>
</tr>
<tr>
<td>Minimum 2.0 GPA required for GE Graduation Requirements (required by CSU)</td>
<td></td>
</tr>
</tbody>
</table>
American Institutions: U.S. History - The following courses satisfy the U.S. History Graduation Requirement and Area D: HIST 17A, HIST 17B, HIST 159, HIST 161, HIST 162, HIST 177, ANTH 101

American Institutions: U.S. Constitution & CA Government - The following satisfy the U.S. Constitution & CA Government graduation requirement Area D: GOVT 1, GOVT 113, GOVT 150

Writing Intensive (WI) - May satisfy Upper Division General Education or Major "C- or better required"

Graduation Requirements (required by CA State University, Sacramento)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 5</td>
<td>Accelerated Academic Literacies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 5M</td>
<td>Accelerated Academic Literacies - Multilingual</td>
<td></td>
</tr>
<tr>
<td>ENGL 11</td>
<td>Academic Literacies II</td>
<td></td>
</tr>
<tr>
<td>ENGL 11M</td>
<td>Academic Literacies II-Multilingual</td>
<td></td>
</tr>
</tbody>
</table>

**Area A: Basic Subjects (p. 1134) (9 units)**

These requirements must be completed before enrollment in upper division GE courses. A grade of "C-" or better is required in all courses taken in Area A.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1: Oral Communication</td>
<td>Select one of the following: COMS 4 Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>COMS 5 The Communication Experience</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2: Written Communication</td>
<td>Select one of the following: ENGL 20 Accelerated Academic Literacies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area B: The Physical Universe and Its Life Forms (p. 1134) (12 units)**

At least 3 units must be taken in each of Areas B1, B2 and B4. At least one course with a laboratory component must be taken in Area B1 or B2.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREA B1: PHYSICAL SCIENCE</td>
<td>Select one of the following: ASTR 4A Introduction to the Solar System</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ASTR 4B Introduction to Stars, Galaxies, and Cosmology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ASTR 4C Introduction to Astrobiology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ASTR 6 Astronomical Observation Laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHEM 1A General Chemistry I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHEM 5 Chemistry for Nurses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHEM 6A Introduction to General Chemistry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GEOG 1 Physical Geography: The Distribution of Natural Phenomena</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEOG 5 Violent Weather/Changing Atmosphere</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GEOG 11 Laboratory in Physical Geography</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GEOL 5 Geology Of Mexico</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GEOL 7 Natural Disasters</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GEOL 8 Earth Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GEOL 8L Earth Science Lab</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GEOL 10 Physical Geology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GEOL 10L Physical Geology Lab</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHYS 5A General Physics: Mechanics, Heat, Sound</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHYS 10 Physics In Our World</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHYS 11A General Physics: Mechanics</td>
<td></td>
</tr>
</tbody>
</table>

**Area B2: LIFE FORMS (p. 1134) (3 units)**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1</td>
<td>Introduction to Biological Anthropology</td>
<td></td>
</tr>
<tr>
<td>ANTH 1A</td>
<td>Biological Anthropology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
<td></td>
</tr>
<tr>
<td>BIO 7</td>
<td>Introduction to the Science of Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 9</td>
<td>Our Living World: Evolution, Ecology and Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). There is no way to list all possible overlaps so please complete this checklist with a professional advisor. We can help you identify the best course of action. Academic Advising Center can be visited csus.edu/acad or please call: (916) 278-1000 or email at advising@csus.edu.

Students must choose their General Education classes from the Areas and classes listed below:
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 10</td>
<td>Basic Biological Concepts</td>
<td></td>
</tr>
<tr>
<td>BIO 15L</td>
<td>Laboratory Investigations in Biology</td>
<td></td>
</tr>
<tr>
<td>BIO 20</td>
<td>Biology: A Human Perspective</td>
<td></td>
</tr>
<tr>
<td>ENVS 10</td>
<td>Introduction to Environmental Science</td>
<td></td>
</tr>
<tr>
<td>ENVS 10H</td>
<td>Honors Environmental Science</td>
<td></td>
</tr>
</tbody>
</table>

**AREA B3: LAB**

Select a course from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 6</td>
<td>Astronomical Observation Laboratory</td>
</tr>
<tr>
<td>ANTH 1A</td>
<td>Biological Anthropology Laboratory</td>
</tr>
<tr>
<td>BIO 1</td>
<td>Biodiversity, Evolution and Ecology</td>
</tr>
<tr>
<td>BIO 15L</td>
<td>Laboratory Investigations in Biology</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>CHEM 5</td>
<td>Chemistry for Nurses</td>
</tr>
<tr>
<td>CHEM 6A</td>
<td>Introduction to General Chemistry</td>
</tr>
<tr>
<td>CHEM 6B</td>
<td>Introduction to Organic and Biological Chemistry</td>
</tr>
<tr>
<td>GEO 11</td>
<td>Laboratory in Physical Geography</td>
</tr>
<tr>
<td>GEO 5</td>
<td>Geology Of Mexico</td>
</tr>
<tr>
<td>GEO 8L</td>
<td>Earth Science Lab</td>
</tr>
<tr>
<td>GEO 10L</td>
<td>Physical Geology Lab</td>
</tr>
<tr>
<td>KINS 150</td>
<td>Exercise and Sport Physiology</td>
</tr>
<tr>
<td>PHYS 5A</td>
<td>General Physics: Mechanics, Heat, Sound</td>
</tr>
<tr>
<td>PHYS 11A</td>
<td>General Physics: Mechanics</td>
</tr>
</tbody>
</table>

**AREA B4: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1</td>
<td>Mathematical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 15H</td>
<td>Honors Mathematical Reasoning</td>
<td></td>
</tr>
<tr>
<td>MATH 17</td>
<td>An Introduction to Exploration, Conjecture, and Proof in Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 24</td>
<td>Modern Business Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 26A</td>
<td>Calculus I for the Social and Life Sciences</td>
<td></td>
</tr>
<tr>
<td>MATH 26B</td>
<td>Calculus II for the Social and Life Sciences</td>
<td></td>
</tr>
<tr>
<td>MATH 29</td>
<td>Pre-Calculus Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 30</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 31</td>
<td>Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 35</td>
<td>Introduction to Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>STAT 1</td>
<td>Introduction to Statistics</td>
<td></td>
</tr>
<tr>
<td>STAT 10A &amp; STAT 10B</td>
<td>Introductory Statistics with Developmental Mathematics</td>
<td></td>
</tr>
<tr>
<td>STAT 50</td>
<td>Introduction to Probability and Statistics</td>
<td></td>
</tr>
</tbody>
</table>

**AREA B5: FURTHER STUDIES IN PHYSICAL SCIENCE, LIFE FORMS, AND QUANTITATIVE REASONING**

Select one from the following two categories:

**Lower Division**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 15</td>
<td>World Prehistory and the Evolution of Modern Humanity</td>
<td></td>
</tr>
<tr>
<td>ANTH 17</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 6B</td>
<td>Introduction to Organic and Biological Chemistry</td>
<td></td>
</tr>
<tr>
<td>CSC 1</td>
<td>Introduction to Computer Science</td>
<td></td>
</tr>
<tr>
<td>CSC 10</td>
<td>Introduction to Programming Logic</td>
<td></td>
</tr>
</tbody>
</table>

**Upper Division**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 131</td>
<td>The Solar System and Space Exploration</td>
</tr>
<tr>
<td>ASTR 132</td>
<td>Stars, Galaxies and Cosmology</td>
</tr>
<tr>
<td>CHDV 143</td>
<td></td>
</tr>
<tr>
<td>FACS 112</td>
<td>Current Topics in Nutritional Sciences</td>
</tr>
<tr>
<td>FACS 113</td>
<td>Nutrition and Metabolism</td>
</tr>
<tr>
<td>GEOG 111</td>
<td>Elements Of Meteorology</td>
</tr>
<tr>
<td>GEOG 113</td>
<td>Climate</td>
</tr>
<tr>
<td>GEOG 115</td>
<td>Biogeography</td>
</tr>
<tr>
<td>GEOG 116</td>
<td>Global Climate Change</td>
</tr>
<tr>
<td>GEOL 130</td>
<td>Oceanography</td>
</tr>
<tr>
<td>HIST/PHSCASSOCIA DEAN, COLLEGE OF ARTS AND LETTERS107</td>
<td>History of the Physical Sciences</td>
</tr>
<tr>
<td>KINS 150</td>
<td>Exercise and Sport Physiology</td>
</tr>
<tr>
<td>NURS 168</td>
<td>The Brain and Gender-Related Differences</td>
</tr>
<tr>
<td>PHIL 125</td>
<td>Philosophy Of Science</td>
</tr>
</tbody>
</table>

**Total Units**

12

1. Completion of the ELM (unless exempt) is a prerequisite for courses in this Area. In addition, passage of course-based diagnostic exams is required. A grade of "C-" or better is required in all courses taken in Area B4.

2. Choose a course from this area or another from B1, B2, or B4 to total 12 units in Area B.

**Area C: The Arts and Humanities (p. 12 Units)**

At least 3 units must be taken from Areas C1 (ARTS) and C2 (HUMANITIES).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREA C1: ARTS</td>
<td></td>
<td>3 - 9</td>
</tr>
</tbody>
</table>

Select 3-9 units from the following two divisions:

**Lower Division**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1A</td>
<td>Art, Religions, and Power before 1400</td>
<td></td>
</tr>
<tr>
<td>ART 1B</td>
<td>Art, Empires, and Cross-Cultural Exchange, 1400-1800</td>
<td></td>
</tr>
<tr>
<td>ART 1C</td>
<td>Global Modern and Contemporary Art</td>
<td></td>
</tr>
<tr>
<td>ART 2</td>
<td>History of Islamic Art</td>
<td></td>
</tr>
<tr>
<td>ART 3A</td>
<td>Traditional Asian Art</td>
<td></td>
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<tr>
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**Upper Division**

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**DEAN, COLLEGE OF ARTS AND LETTERS140**

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**THEA 140** | Black Drama in the African Diaspora |
**THEA 144** | Women and Theatre: Staging Diversity (WGS 144) |
**THEA 170** | African American Theatre and Culture |
**THEA 173** | Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present |
**THEA 174** | Multicultural Perspectives in American Theatre |
**THEA 175** | Multicultural Perspectives in American Film |

**WGS 146**

**AREA C2: HUMANITIES**

Select 3-9 units from the following two divisions

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Area D: The Individual and Society

(p. ) (12 Units)

Minimum of three disciplines (e.g. ANTH, ECON, ETHN, FACS, GOVT, HIST, RPTA, etc.) must be taken in Area D. The American Institutions graduation requirement may be satisfied in Area D with 3 units of US history courses and 3 units of US Constitution and CA government courses (see Graduation Requirements: American Institutions).

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Total Units: 12
Area E: Understanding Personal Development (p. ) (3 Units)

Only a single one-unit KINS activity course may be applied to this area. A one-unit KINS course cannot be combined with a two-unit DNCE course to meet this requirement. KINS 99 may be taken concurrently with any 1 unit KINS activity course for a total of 3 units of Area E GE credit.

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Upper Division GE Courses (Areas B, C, D, and E) (p. )

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General Education (Prior to Fall 2018)

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</tr>
<tr>
<td>WGS 146</td>
<td>American Institutions (p. 44)</td>
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</table>

The 48-unit General Education requirement does not include the following two graduation requirements:

- Second semester composition (ENGL 20, ENGL 20M or an approved equivalent) must be completed with a grade of C- or better.
- Foreign language graduation requirement may be met by successfully completing appropriate coursework or passing proficiency exams. With a grade of "C-" or better, the following second semester or equivalent college-level language courses may satisfy both GE Area C2 units and the Foreign Language Requirement:

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<td>Elementary Korean 1B</td>
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<td>Elementary Punjabi</td>
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<td>Elementary Russian</td>
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<tr>
<td>SPAN 1B</td>
<td>Elementary Spanish</td>
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American Institutions (p. 44)
This requirement may be fulfilled by completing one Government and one US History course from the following list. The courses below also satisfy Area D units. In addition, students have the option of taking challenges in US History, US Constitution and California State and Local Government. For details on challenges exam, see http://www.csus.edu/CCR/Challenge %20Exams/.

<table>
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<tr>
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<td>HIST 17A</td>
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<td>HIST 17B</td>
<td>United States History, 1877-Present</td>
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<tr>
<td>HIST 159</td>
<td>History of US Foreign Relations</td>
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</table>
**Race & Ethnicity in American Society (p. 3) (3-unit Supervenient Requirement)**

These courses also meet specific GE requirements in Areas C-E. One of these courses is required for students with catalog rights beginning Fall 1990 or later. The course may also be applied to the Area requirements.

<table>
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</table>

**Writing Intensive (p. 3) (3-unit Supervenient Requirement)**

One Writing Intensive course, i.e., a course with comprehensive writing assignments (minimum 5,000 words) is required. This requirement may be met either with a specifically marked GE courses or, in certain majors, with a course required for the major. (Writing Intensive courses taken to meet major requirements do not apply to the nine-unit upper division requirement in GE.) Prerequisite: Completion of GE Areas A2, A3, second semester composition (ENGL 20), junior standing, and ENGL 109M/ENGL 109W. Students who take the WPJ instead of initially taking ENGL 109M/ENGL 109W must score 70, 71, or 80. Students with a lower WPJ score will have to complete other prerequisites determined by their score. Successful completion of the writing intensive course with a grade of C- or better certifies the Graduation Writing Assessment Requirement (GWAR).
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<td>ANTH 186</td>
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<td>History of Women in Western Civilization, Renaissance-Present</td>
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**Certificate—Global and Multicultural Perspectives**

Total Units: 12 units minimum—9 of which must be upper division.
All courses in Section A and B are also approved for General Education

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<tr>
<td>GOVT 148</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 119</td>
<td>Europe Since 1945</td>
<td></td>
</tr>
<tr>
<td>HIST 130</td>
<td>The Fall Of Communism</td>
<td></td>
</tr>
<tr>
<td>HIST 135B</td>
<td>Revolutionary and Modern Mexico</td>
<td></td>
</tr>
<tr>
<td>HIST 138A</td>
<td>Colonial Latin America</td>
<td></td>
</tr>
<tr>
<td>HIST 138B</td>
<td>Modern and Contemporary Latin America</td>
<td></td>
</tr>
<tr>
<td>HIST 143B</td>
<td>The Modern Middle East</td>
<td></td>
</tr>
<tr>
<td>HIST 146B</td>
<td>Modern Japan, 1800-present</td>
<td></td>
</tr>
<tr>
<td>JOUR 134</td>
<td>War, Peace and the Mass Media</td>
<td></td>
</tr>
<tr>
<td>SOC 163</td>
<td>Conflict, Oil and Development in the Middle East</td>
<td></td>
</tr>
<tr>
<td>SOC 164</td>
<td>Sociology of Globalization</td>
<td></td>
</tr>
<tr>
<td>SWRK 102</td>
<td>Crosscultural Theory and Practice: Issues of Race, Gender and Class</td>
<td></td>
</tr>
<tr>
<td>WGS 110</td>
<td></td>
<td></td>
</tr>
<tr>
<td>From GE Honors:</td>
<td></td>
<td></td>
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<tr>
<td>HONR 101</td>
<td>Science and the Public Good</td>
<td></td>
</tr>
<tr>
<td>HONR 103</td>
<td>Civic Engagement, Service Learning: Pursuing the Public Good</td>
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<tr>
<td></td>
<td><strong>Global and Multicultural Perspectives on Arts and Humanities (3-6 Units)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 3-6 units from the following:</td>
<td>3 - 6</td>
</tr>
</tbody>
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**From Area C1 (Arts):**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 111</td>
<td>Latin American and Latino Art History</td>
</tr>
<tr>
<td>ART 117A</td>
<td>Art of India and Southeast Asia</td>
</tr>
<tr>
<td>ART 117B</td>
<td>Art of China and Japan</td>
</tr>
<tr>
<td>ASIA/HISTASSOCIATE DEAN, COLLEGE OF ARTS AND LETTERS140</td>
<td>Modern East Asian Cinema</td>
</tr>
<tr>
<td>DNCE 130</td>
<td>Appreciation and History of Dance</td>
</tr>
<tr>
<td>DNCE 131</td>
<td>Dance Cultures Of America</td>
</tr>
<tr>
<td>DNCE 132</td>
<td>African-Caribbean Dance</td>
</tr>
<tr>
<td>ENGL 191A</td>
<td>Masterpieces of the Cinema</td>
</tr>
<tr>
<td>HRS 180</td>
<td>The Film</td>
</tr>
<tr>
<td>HRS 181</td>
<td>Contemporary Issues in Film</td>
</tr>
<tr>
<td>ITAL 104A</td>
<td>Introduction to Italian Cinema I</td>
</tr>
<tr>
<td>MUSC 119A</td>
<td>World Music: Asia</td>
</tr>
<tr>
<td>MUSC 119B</td>
<td>World Music: Africa</td>
</tr>
<tr>
<td>MUSC 119C</td>
<td>World Music: Latin America</td>
</tr>
<tr>
<td>THEA 115A</td>
<td>Multicultural Puppetry</td>
</tr>
<tr>
<td>THEA 140</td>
<td>Black Drama in the African Diaspora</td>
</tr>
<tr>
<td>THEA 144</td>
<td>Women and Theatre: Staging Diversity (WGS 144)</td>
</tr>
</tbody>
</table>

**From Area C2 (Humanities):**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 121</td>
<td>Archaeology of Mexico</td>
</tr>
<tr>
<td>ANTH 134</td>
<td>Japanese Culture and Society</td>
</tr>
<tr>
<td>CHDV 141</td>
<td></td>
</tr>
<tr>
<td>CHIN 120</td>
<td>Chinese Civilization</td>
</tr>
<tr>
<td>ECON 112</td>
<td>European Economic History</td>
</tr>
<tr>
<td>EDUC 121</td>
<td>Multicultural Children's Literature</td>
</tr>
<tr>
<td>ENGL 165D</td>
<td>Postcolonial Literature</td>
</tr>
<tr>
<td>ENGL 180Z</td>
<td>Topics in Multi-Ethnic Literatures</td>
</tr>
<tr>
<td>ENGL 185B</td>
<td>Twentieth Century Fiction by Women</td>
</tr>
<tr>
<td>ETHN 171</td>
<td>African Religions and Philosophies</td>
</tr>
<tr>
<td>FREN 120</td>
<td>French Civilization</td>
</tr>
<tr>
<td>GERM 140</td>
<td>Heroes, Dragons and Quests</td>
</tr>
<tr>
<td>GERM 141</td>
<td>German Mythology and Legend</td>
</tr>
<tr>
<td>GERM 142</td>
<td>German Folk Literature, Legend, and Lore</td>
</tr>
<tr>
<td>GERM 143</td>
<td>King Arthur and the Knights of the Round Table in Germany</td>
</tr>
<tr>
<td>GERM 150</td>
<td>German Civilization: Beginning to 16th Century</td>
</tr>
<tr>
<td>GERM 151</td>
<td>German Civilization: 17th Century to Present</td>
</tr>
<tr>
<td>HIST 103</td>
<td>Mediterranean Europe: From the Renaissance to the European Union</td>
</tr>
<tr>
<td>HIST 105</td>
<td>Great Ages and Issues in Modern European History</td>
</tr>
<tr>
<td>HIST 106</td>
<td>Everyday Life and Society in Antiquity</td>
</tr>
<tr>
<td>HIST 110</td>
<td>The Ancient Near East: A Cultural History</td>
</tr>
<tr>
<td>HIST 111</td>
<td>Ancient Greece</td>
</tr>
<tr>
<td>HIST 112</td>
<td>Ancient Rome</td>
</tr>
<tr>
<td>HIST 113</td>
<td>Early Medieval Europe</td>
</tr>
</tbody>
</table>
### General Education Policies

- All upper division GE courses require at least second semester sophomore standing (45 units) and completion of all GE Area A courses as prerequisites.
  
- At least 9 units must be chosen from upper division GE courses (100-199) and at least 9 units must be taken in residence at Sacramento State (these units may overlap).

- Each course taken to satisfy the Area A Basic Subjects and Area B4 Quantitative Reasoning must be completed with a grade of "C-" or higher.

- A 2.0 cumulative GPA is required in General Education.

#### Overlap Between General Education and Majors/Minors (Fall 1992 - Spring 2013)

General Education requirements include five areas (A-E) in which you must take courses (area requirements), a nine-unit upper division requirement, a Race and Ethnicity requirement, and a Writing Intensive requirement. The overlap possibilities among these four aspects of General Education are outlined below. Students needing help applying these overlap policies are encouraged to see an advisor in the Academic Advising Center, Lassen Hall 1012.

1. A maximum of nine units of coursework from your major department may also be applied to the General Education requirements.

2. The Race and Ethnicity requirement can be met with an upper or lower division course from a student’s major or major department. Example: A Social Work major can use SWRK 102 to meet the Race and Ethnicity requirement.

3. The Writing Intensive requirement can be met with a course from the major or major department in specified majors, but not in all majors.

4. There is no restriction on the overlap of courses between GE and minor requirements*

**Note:** For Business Administration majors, substitute “College of Business” for “major department.” For Social Science majors, substitute “History” for “major department.”

#### Overlap Between General Education and Majors/Minors (Fall 2013 and Later)

General Education requirements include five areas (A-E) in which you must take courses (area requirements), a nine-unit upper division requirement, a Race and Ethnicity requirement, and a Writing Intensive requirement. The overlap possibilities among these four aspects of General Education are outlined below. Students needing help applying these overlap policies are encouraged to see an advisor in the Academic Advising Center, Lassen Hall 1012.

1. There is no university restriction on the overlap of courses between GE and coursework approved for GE from your major department.

2. The Race and Ethnicity requirement can be met with an upper or lower division course from a student’s major or major department. Example: A Social Work major can use SWRK 102 to meet the Race and Ethnicity requirement.

3. The Writing Intensive requirement can be met with a course from the major or major department in specified majors, but not in all majors.

4. There is no restriction on the overlap of courses between GE and minor requirements.

Transfer Students

Transfer students who have completed lower division General Education requirements at a California Community College, including those certified under the Intersegmental General Education Transfer Core Curriculum (IGETC), and/or those in receipt of an Associate Degree for Transfer (ADT), are required to complete 9 units of upper division GE at
Sacramento State, meet the foreign language proficiency graduation requirement, meet the state “code” requirements in U.S. History, American and California Government, and the writing intensive requirement. These 9 units may or may not include the writing intensive requirement, depending on the policy of the student’s major department. Students who have not completed an approved course for the “Race and Ethnicity in American Society” category at a community college must take a course in this category at Sacramento State. In addition, all transfer students, except those fully certified as having completed the IGETC core curriculum, must complete the required second semester writing course or an approved course at a community college.

Note: Foreign Language Proficiency Requirement - If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). “C- or higher required.” The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: http://www.csus.edu/will/for-students/graduation-requirement.html

For more information about IGETC requirements and/or Associate Degrees for Transfer, contact your community college counselor.

General Education Honors Program
Program Description
“Education is not preparation for life; education is life itself.” – John Dewey

The General Education Honors Program is a course of study to provide academic challenges and enhanced learning for highly motivated students at Sacramento State. Honors students take most of these courses in their freshman and sophomore years. There is an additional nine-unit upper division Honors sequence that students take to earn an Honors certificate upon graduation. The Honors courses fulfill almost all Sacramento State General Education requirements.

The guiding principles of the Honors Programs are active learning, global subject matter, study of primary texts, and an interdisciplinary orientation. Specially selected faculty provide challenging and stimulating learning experiences in small class settings. The cornerstone experience of the freshmen and sophomore years is a three semester Honors seminar, in which students will read some of the great books of the civilizations of the world and discuss some of the issues raised by these authors.

Honors students have access to a lounge and central administrative office, where they can relax, study, meet with advisors, and talk with one another. The program is open to qualified entering freshmen; all others interested should contact the Honors Director.

For further information and application instructions, visit the Honors Web site at www.csus.edu/honorsprogram (http://www.csus.edu/honorsprogram/).

Academic Program
GE Honors Certificate (p. 1151)

Contact Information
Lee M. A. Simpson, Director
Rheena K. Muñoz, Administrative Support Coordinator II
Kaitlyn Ehrmantrout, Administrative Support Coordinator I
Academic Resource Center 4002
(916) 278-2804

www.csus.edu/honorsprogram (http://www.csus.edu/honorsprogram/)
Minor in Honors Global Engagement and Leadership

HONR 102. The Public Good Through the Visual and Performing Arts. 3 Units
Prerequisite(s): Upper division status in Honors Program; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
This course explores the role of the visual and performing arts as a catalyzing and infinitely variable means of pursuing the public good. Students will engage with the artistic process as well as learn how works of art have successfully challenged ideological conventions and helped change social and political systems. Strategies of making art will be examined in the form of specific visual and performativity methodologies, the context of the artist, and the public perception of various art forms.

HONR 103. Civic Engagement, Service Learning: Pursuing the Public Good. 3 Units
Prerequisite(s): Must be admitted to Honors Program
Term Typically Offered: Fall, Spring
Students to be an active participant in his/her own learning process through a service learning experience and participation in a corresponding seminar. Students are offered a reciprocal opportunity to acquire knowledge and develop skills while providing service and assistance to the community. Students will have the opportunity to assess the circumstances of an organization and provide feedback on their situation. The student will evaluate and assess his/her service learning from three perspectives: the physical universe and its life forms, social issues and social science research, and the arts.
Note: An international experience can be substituted for a local service learning experience. See Honors Program Director for more information.

HONR 102. Honors One World Seminar. 3 Units
Prerequisite(s): Open to students in the Honors program and permission of the program director.
Seminar dedicated to exploring the One World theme for the university. Topic changes annually.

HONR 150. Leadership Seminar. 3 Units
Prerequisite(s): Open only to Honors students.
Term Typically Offered: Fall, Spring
Seminar dedicated to exploring the principles of effective leadership.

HONR 196. Honors Senior Thesis. 3 Units
Prerequisite(s): Open only to students enrolled in the GE Honors program with permission of the program director.
Term Typically Offered: Fall, Spring
Honors research seminar in which students will complete a research paper in the discipline of their choice based on original research. Recommended for the student’s final semester of study.

HONR 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Open to students enrolled in the General Education Honors Program. Individual projects and directed reading for students who are competent to assume independent work. Requires approval of the Honors Program Director and Honors faculty member under whom the independent work is to be conducted.

Minor in Honors Global Engagement and Leadership

Program Description
The Honors minor in Global Engagement and Leadership builds upon the existing core upper division courses of the General Education Honors Program (Hons 101, 102, 103) and is dedicated to interdisciplinary inquiry. The minor provides the ideal avenue for students to hone their intellectual skills and apply their education in the real world. Building upon the campus initiative to encourage global education the coursework invites students to explore ideas beyond the boundaries of their majors and to engage in a scholarly conversation with the broad university community and community at large. Students who complete the minor should truly be life-long learners who view themselves and engage as global citizens.

Admission Requirements
Students must be admitted to the General Education Honors Program to participate in the minor.

Minimum GPA Requirement
To be admitted to the GE Honors Program incoming freshmen must have a minimum H.S. GPA of 3.5 or higher, 27 on the ACT or 1180 on the SAT. Current students and transfer students may apply to the Honors Program with a cumulative college GPA of 3.5 or higher. Once accepted into the minor students must maintain a cumulative GPA of 3.0 or higher.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONR 101</td>
<td>Science and the Public Good</td>
<td>3</td>
</tr>
<tr>
<td>HONR 102</td>
<td>The Public Good Through the Visual and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>HONR 103</td>
<td>Civic Engagement, Service Learning: Pursuing the Public Good</td>
<td>3</td>
</tr>
<tr>
<td>HONR 120</td>
<td>Honors One World Seminar</td>
<td>3</td>
</tr>
<tr>
<td>HONR 150</td>
<td>Leadership Seminar</td>
<td>3</td>
</tr>
<tr>
<td>HONR 195</td>
<td>Community Fieldwork and Internship</td>
<td>3</td>
</tr>
<tr>
<td>HONR 196</td>
<td>Honors Senior Thesis</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>
Additional requirements:

Students must complete a study abroad experience to complete the minor. A credit-bearing study abroad experience may be used to waive up to 3 courses depending on length and scope of trip, and required coursework.

Presentation of an honors thesis, creative project, or portfolio completed during the student's senior year. The thesis can be completed within the student's major.

GE Honors Certificate

Units required for Certificate: 42

Program Description

The General Education Honors Program is a course of study to provide academic challenges and enhanced learning for highly motivated students at Sacramento State. Honors students take most of these courses in their first two years. An additional nine-unit upper division Honors sequence is completed to earn an Honors certificate upon graduation. The Honors courses fulfill almost all Sacramento State General Education requirements.

Requirements

Honors students take forty-two (42) units of Honors courses (33 lower division and 9 upper division). Limited exceptions are permitted with permission of the Director.

In their first two years, Honors students take approximately three Honors courses (9 units) per semester, filling out their schedules with other General Education courses or courses required in their pre-major. Honors students must take at least 12 units overall per semester.

The core of the curriculum will be a three-semester Honors seminar in which students read some of the great books of world civilizations, consider some of the big issues raised by world thinkers and writers, and improve their skills in critical thinking and writing:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONR 1</td>
<td>First Year Seminar: Education, Self-Examination, and Living</td>
<td>3</td>
</tr>
<tr>
<td>HONR 2</td>
<td>Great Books and World Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HONR 3</td>
<td>Great Books and World Civilization II</td>
<td>3</td>
</tr>
</tbody>
</table>

The Honors courses fulfill almost all Sacramento State General Education requirements for graduation. GE courses that students take in addition to their Honors courses are: ENGL 5, Math, and a physical science course with lab. Students must also fulfill a university graduation requirement in foreign languages.

Honors students are assigned a faculty advisor upon arrival at Sacramento State. They must consult with their advisor at least once a semester before registering for their courses.

The freshman and sophomore courses for the first Honors cohort are approximately as follows:

<table>
<thead>
<tr>
<th>Program Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Year</td>
</tr>
<tr>
<td>First Semester</td>
</tr>
<tr>
<td>HIST 50H</td>
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<tr>
<td>HONR 1</td>
</tr>
<tr>
<td>HIST 15H</td>
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<tr>
<td>Second Semester</td>
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<tr>
<td>COMS 4H</td>
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<tr>
<td>EDUC 10H</td>
</tr>
<tr>
<td>HIST 51H</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Sophomore Year</td>
</tr>
<tr>
<td>Third Semester</td>
</tr>
<tr>
<td>ANTH 2H or ETHN 11H or GEOG 2H</td>
</tr>
<tr>
<td>ENV 10H</td>
</tr>
<tr>
<td>HONR 2</td>
</tr>
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<td></td>
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<tr>
<td>Fourth Semester</td>
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<tr>
<td>POLS 1H</td>
</tr>
<tr>
<td>HONR 3</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Junior and Senior Years</td>
</tr>
<tr>
<td>Honors students take three specially designed Honors courses to fulfill their upper division requirement in General Education:</td>
</tr>
<tr>
<td>HONR 101</td>
</tr>
<tr>
<td>HONR 102</td>
</tr>
<tr>
<td>HONR 103</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Total Units</td>
</tr>
</tbody>
</table>

1 May be completed in any semester in the program.

2 Students choose ANTH 2H, GEOG 2H or ETHN 11H to complete their Area D requirements.

ROTC

Office of Academic Affairs

Program Description

Aerospace Studies/Air Force

The Department of Aerospace Studies offers three and four year academic and training programs towards a commission in the United States Air Force. The Air Force Reserve Officer Training Corps (AFROTC) program is designed to develop officers in the USAF through leadership and academic training. Cadets participate in dialogues, problem solving, and other planning activities. Program goals are achieved through formal
academic classes, physical fitness training, and Leadership Laboratory (a 2-hour weekly military training session). Qualified undergraduate or specially qualified graduate students may apply for AFROTC. The program accepts students from most of the local two- and four-year community colleges and universities. Contact the Department (www.csus.edu/afrotc/ (http://www.csus.edu/afrotc/)) for information on open enrollment procedures for non-Sacramento State students.

Eligibility
As one of the prerequisites for commissioning, each cadet must attend a two-week field training encampment. This training is conducted at an Air Force base during the summer, normally between a cadet’s sophomore and junior years. Field training emphasizes military orientation, academics, physical fitness training, leadership exercises, teamwork, job specialty briefings, military drill and ceremonies.

Upon completion of the AFROTC program and all requirements for a bachelor’s degree, cadets are commissioned as second lieutenants and serve a minimum of four years in the Air Force. Graduate students are eligible for an Air Force commission upon successful completion of the AFROTC program. AFROTC students may compete to be selected and enter pilot, combat systems operator ("CSO"—navigators, weapon system operators, etc.), remotely piloted aircraft pilot, or air battle manager training after commissioning. These career fields, particularly pilot, are highly selective career fields and the competition is intense. Other commissionees go on active duty in specialties consistent with their academic majors, their desires, and the needs of the Air Force. Commissionees may request a delay from entry on active duty to continue their education, or they may apply for Air Force sponsored study to begin immediately upon entering on active duty service.

Scholarships
AFROTC may offer scholarships to qualified students. Less than 20% of AFROTC cadets are on scholarships and they are highly competitive. Scholarships usually provide for tuition, books, lab and incidental fees, and a tax-free monthly stipend ranging from $300-$500.

Except for scholarship recipients, students are under no obligation to the Air Force until they enter their junior cadet year. Upon entering their junior cadet year all cadets (scholarships/non-scholarships) begin receiving a monthly stipend ranging from $300-$500. More detailed program information is available upon request from AFROTC, Sacramento State, Chair, Department of Aerospace Studies, Yosemite Hall Room 122, (916) 278-7315 or at www.csus.edu/afrotc/ (http://www.csus.edu/afrotc/)

Program Description
Military Science/Army
The Military Science Department operates as an extension office of the Military Science Department at the University of California at Davis and offers hands-on training in management and leadership. The program stresses the following leadership dimensions: oral and written communications, oral presentations (formal briefings), initiative, sensitivity, influence, planning and organizing, delegation, administrative control, problem analysis, judgment, decisiveness, physical stamina, mission accomplishment, and fellowship. Also stressed are current events, national and international politics, military affairs, ethics training, and human relations with emphasis on eliminating racial and gender discrimination. Management and leadership are taught using the U.S. Army as a model. Military skills (such as drill and ceremonies, map reading, and squad tactics) are taught to create an environment where students can enter leadership positions and apply theories taught in the classroom. Students learn by doing. The program assists students in all academic fields to prepare for positions of leadership in military or civilian careers.

The Department offers two program tracks:
1. a purely academic track, and
2. a precommissioning track for those desiring a commission in the U.S. Army

The academic track entails no obligation to the military and is open to all students. Students pursuing the academic track do not wear a uniform or otherwise participate in extracurricular activities designed as part of the precommissioning process. Activities for all students include the Ranger club (a club designed for adventure activities such as rappelling, white-water rafting, orienteering, and trailing) and intramural sports teams.

Students who desire a commission in the U.S. Army participate in both the academic portion of the program and in the leadership laboratories and extracurricular activities designed to enhance their leadership and technical skills. They wear uniforms to leadership laboratories and selected classes and become ROTC cadets. Students may be cadets in the lower division courses without incurring a military obligation. Students participating in the upper division precommissioning program incur a military obligation. See below for details. Extracurricular activities for cadets include an intercollegiate sports team (Ranger Challenge), the university color guard, military honor society, a rifle/pistol team, and opportunities to participate in field training exercises.

Military Science Program Options
Students are enrolled in military science under one of two programs.

Four-Year Program
Students are enrolled in the basic course (lower division) for the first two years on a voluntary basis. There is no military obligation associated with attendance in lower division courses. Admission to the advanced course (upper division) is by application from second-year lower division students who meet the academic, physical, and military aptitude requirements. Qualified veterans can enter the advanced course immediately because of their military service experience, upon approval by the Department Chair. Upper division students receive $350 (Juniors) or $400 (Seniors) subsistence per month after executing a contract agreeing to complete the course and accept a commission if offered. During the course, all military science textbooks, uniforms and equipment are provided without cost. Students are given leadership development experience at summer camp (advanced camp) between their third and fourth years of the course. Emphasis is on individual participation, leadership development and the capability to function effectively in positions of significant responsibility.

Two-Year Program
The two-year program is for students who have not attended lower division Military Science classes. In lieu of lower division courses an applicant attends the Army ROTC National Leader’s Camp at Fort Knox, Kentucky. Applicants are paid for camp attendance and transportation costs. Applications are accepted during the winter and spring terms of the year preceding enrollment in the two-year program. All other provisions explained above for the upper division course apply to the two-year program.
Scholarships
The U.S. Army offers four-, three-, and two-year Active Duty and two-year Reserve Forces Duty or Dedicated California National Guard scholarships to students planning to attend or attending Sacramento State. The U.S. Army ROTC scholarship package pays tuition and educational fees. Also included in all scholarships is a flat rate of $600 per year for textbooks, up to $400 per year for miscellaneous fees such as laboratory, student activity, transcript, and graduation fees, and a subsistence allowance of up to $400 a month for 10 months for each year that the scholarship is in effect.

The Army Reserve Officers’ Training Corps four-year Active Duty merit scholarships are awarded to qualified high school seniors in a national competition each year. There are two cycles available for submission of the four-year scholarship application. High school juniors can compete for an Early Cycles scholarship by submitting their application complete and postmarked by July 15 between their junior and senior years. Applicants will receive notification of their final status by November 1. As high school seniors, students compete for the Regular Cycle scholarship by submitting their application complete and postmarked by December 1. Those applicants not selected in the Early Cycle are considered in the Regular Cycle competition. Applicants will receive notification of their final status by March 1 of their senior year in high school. Interested applicants should see their high school counselor for an application or contact the UC Davis Department of Military Science at (530) 752-7682.

The three-year Active Duty and two-year Reserve Forces Duty scholarships are awarded to college students who are already attending Sacramento State or transferring from a junior college to Sacramento State, and have three to two years remaining before graduating with a baccalaureate. Students interested in competing for these scholarships can submit their application beginning in November of each school year. The deadline for submission of an application is January 15 for the three-year scholarship and February 15 for the two-year scholarship. Students apply for and are awarded these Army scholarships through the Military Science Department.

Leadership Laboratory
During the course of the school year, several weekends and two hours per week are spent in the conduct of practical exercises. Classes emphasize adventure activities including offense, defense and patrolling techniques, weapons familiarization, rappel ling, rope bridging, obstacle course, leadership reaction course, and land navigation. All cadets are required to attend leadership laboratories at the UC Davis campus for practical leadership experience and to prepare for attendance at the Army ROTC Advanced Camp, held at Fort Knox, Kentucky.

Contact Information
AFROTC, Sacramento State
Department of Aerospace Studies
Lt Col Kenneth H. Morse, Department Chair
Catherine Davis, University Liaison
Yosemite Hall 122
(916) 278-7315
http://www.csus.edu/afrotc (http://www.csus.edu/afrotc/)

ARMY ROTC, Sacramento State (UC Davis Ext. Center)
Army ROTC
LTC Ryan Burkert, Program Chair
or the University Liaison
Yosemite Hall 157
(916) 278-2635
armyrotc@csus.edu
http://www.csus.edu/armyrotc (http://www.csus.edu/armyrotc/)

ARMY ROTC, UC-Davis Military Services
Department Office, 125 Hickey Gymnasium, UC Davis
(530) 752-5211
rotc@ucdavis.edu
http://milsci.ucdavis.edu

AERO 1A. Heritage and Values of the United States Air Force I. 1 Unit
Term Typically Offered: Fall, Spring
Orientation to the Air Force and AFROTC. This is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, organizations of the Air Force, and benefits of Air Force membership. Students will be required to complete an oral and written project.

AERO 1B. Heritage and Values of the United States Air Force II. 1 Unit
Term Typically Offered: Fall, Spring
Continuation of AERO 1A: completes students’ orientation to the Air Force. Specific topics include evolution of Airpower, Air Force structure, and social media and the Air Force. Students will be required to complete an oral and written project.

AERO 21A. Team Leadership and Fundamentals I. 1 Unit
Term Typically Offered: Fall, Spring
Focuses on laying the foundation for teams and leadership in the Air Force. Topics include skills that will allow cadets to improve their leadership on a personal level and within a team. Cadets will experience initial field training preparation. Communication skills will be emphasized and include: public speaking, writing, and class participation.

AERO 21B. Team Leadership and Fundamentals II. 1 Unit
Term Typically Offered: Fall, Spring
Continuation of AERO 21A. The purpose of this course is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadets to AFROTC offer candidates. Topics include conflict management, human relations, building teams. Communication skills will be emphasized and include: speaking, writing, and class participation.

AERO 99. Special Problems. 1 - 4 Units
Term Typically Offered: Fall, Spring
Academic study and evaluation in specified topics associated with aerospace development, technology, and doctrine.
Note: Open only to students who appear competent to complete assigned work and who meet prerequisites established by the Department of Aerospace Studies. Approval in writing by the Department Chair required.

Credit/No Credit
AERO 135A. Leading People and Effective Communication I. 3 Units
Term Typically Offered: Fall, Spring
This course teaches cadets advanced skills and knowledge in management and leadership. Also a survey of selected concepts, principles, and theories on decision making, change management, effective supervision and Air Force diversity issues. Students will be given the opportunity to improve speaking and writing skills.
AERO 135B. Leading People and Effective Communication II. 3 Units
Term Typically Offered: Fall, Spring

Continuation of AERO 135A. Survey of selected concepts, principles, and theories on negotiating in teams, bias, creating a vision, public affairs, and professionalism. Students will be given the opportunity to improve speaking and writing skills.

AERO 145A. National Security and Preparation for Active Duty I. 3 Units
Term Typically Offered: Fall, Spring

Provides an overview of the role of the military in our national security policy and processes. It includes an analysis of the roles of the three branches of government as they relate to national security; organization of the Air Force as well as other branches of the military; an overview of military ethics; how the Air Force deploys; and a discussion of global current events which impact our national security. Students are expected to participate in class discussions/complete written/oral presentations.

AERO 145B. National Security and Preparation for Active Duty II. 3 Units
Term Typically Offered: Fall, Spring

Continuation of AERO 145A. Presentation of critical issues facing today's military professionals. A wide variety of topics are discussed including: the military legal system; the laws of armed conflict; security issues; personal finance; professional/unprofessional relationships; information warfare; and issues pertinent to the first assignment after commissioning into the Air Force. Students will be expected to participate in class discussions and complete a written and oral presentation.

AERO 199. Special Problems. 1 - 4 Units
Term Typically Offered: Fall, Spring

Academic study and evaluation in specified topics associated with aerospace development, technology, and doctrine.

Note: Open only to those students who appear competent to complete assigned work and who meet prerequisites established by the Department of Aerospace Studies. Approval in writing by the Department Chair required.

Credit/No Credit

MILS 14. Introduction to Military Science I. 1 Unit
Term Typically Offered: Fall, Spring

Discussion of the military as one element of national power; its role in American defense; its purpose, weapons and organizations; its participation in international treaties. Discussion of other subjects required for a student to understand the military and its place in modern society. Fall only.

MILS 15. Introduction to Military Science II. 1 Unit
Term Typically Offered: Fall, Spring

Discussion of the military's role in American Society, current society attitudes, sources of its leaders, and an examination of its structure. Spring only.

MILS 24. Principles and Tactics of the Soldier. 1 Unit
Term Typically Offered: Fall, Spring

Familiarizes students with the nine principles of war, and gain an appreciation for the role of the commander in warfare. A study of small unit level will enable the student to understand the nature of the battlefield environment, and will put the decisions of the commander into perspective. These discussions will lead to the discussion of the elements of leadership to be presented in MILS 25. Fall only.

MILS 25. Leadership Assessment and Beginning Counseling Skills. 1 Unit
Term Typically Offered: Fall, Spring

Students will gain insight and practical experience in the manager-leader skills of counseling using the Army's sixteen leadership dimensions as a model. The student will understand the elements of leadership, and undergo the Army's Leadership Assessment Program in class. Interactive role playing scenarios will be conducted and behavior recorded in a group setting. The student will be given individual feedback on the results of the assessment by scheduling a private appointment with the instructor. Spring only.

MILS 99. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Intensive examination of one or more special problems in Military Science. Possible areas of study include examination of the structure of the military and its place in modern society, participation in international treaties, leadership skills, decision making, as well as other topics in military science.

MILS 134. Principles Of Instruction. 2 Units
Term Typically Offered: Fall, Spring

Principles and practice in fundamentals applicable to military instruction to include planning, presentation, execution and evaluation. Student presentations exemplify lecture material. Application of small combat unit tactics (squad and platoon) will solidify concepts discussed in class. Fall only.

MILS 135. Military Operations. 2 Units
Prerequisite(s): Upper division standing, MILS 134 or instructor permission.
Term Typically Offered: Fall, Spring

Military small unit tactical theory and application are taught and serve as a basis for leadership development. Introduces principals of combat contemporary operating environment, Geneva Law of Land Warfare, and military offensive and defensive operations. Emphasis is placed on developing critical thinking, problem solving, and communication skills. Spring only.

MILS 144. Principles of Military Administration. 2 Units
Term Typically Offered: Fall, Spring

Comprehensive course in the organization, structure, and functions of the various types of staffs and an introduction to the theory and application of military law and legal systems focusing on the Uniform Code of Military Justice and the rights of the accused under the Constitution. Fall only.
MILS 145. Military Leadership and Ethics. 2 Units
Term Typically Offered: Fall, Spring

Capstone seminar designed to bring together all previous Military Science instruction. Examines contemporary leadership problems. Designed to provide the ROTC cadet with the basic management skills necessary for a foundation for future growth as a junior officer. Spring only.

MILS 199. Special Problems. 1 - 3 Units
Prerequisite(s): MILS 14, MILS 15, MILS 24, MILS 25 and Department Chair permission.
Term Typically Offered: Fall, Spring

Intensive examination of one or more special problems in military science. Possible areas of study include leadership dimensions, professional ethics, critical thinking, problem solving, communication skills as well as other topics in military science.

Special Major/Minor
Special Major (Undergraduate) (p. 1155)
Special Major (Graduate) (p. 1155)

Contact Information
For Undergraduate Special Major:
Office of Undergraduate Studies
Sacramento Hall 234
(916) 278-5344
csus.edu/acaf/ge/general-education.html (http://csus.edu/acaf/ge/general-education.html)

Contact Information
For Graduate Programs:
Office of Graduate Studies
River Front Center 206
(916) 278-6470
www.csus.edu/gradstudies (http://www.csus.edu/gradstudies/)

Special Major (Graduate)

Graduate Program
The Special Major for the Master's degree provides an alternative for superior students whose special needs and interests cannot adequately be met by any one of the existing master's degree programs of the University. The student may earn a Master of Arts or a Master of Science, as appropriate to the department in which the culminating experience requirement is completed. The special major is a coherent program directed towards a clear theme, not available within an existing graduate major. The courses are chosen from two or more departments and may bridge more than one college within the University. The courses must be carefully selected for their correlation and clear applicability to the objective of the unique major being proposed. The proposed program must be compatible with the objectives of the University and supportable by courses already offered within the degree programs and by the expertise of the faculty members.

Eligibility
The Special Major program is restricted to superior graduate students who are eligible for admission to classified standing in one of the regular master's degree programs of the University.

Eligibility
Students must present evidence of overall undergraduate grade point averages of 3.0 and 3.0 in the last 60 semester units taken.

Courses taken to fulfill prerequisite requirements must be completed with a minimum GPA of 3.5, and they may not be counted toward the degree requirements.

Admission Requirements
Students may apply to the University as unclassified graduate students or directly into a Special Major program.

A Special Major application with department approvals must be submitted no later than the end of the first semester of attendance.

The applicant will need to obtain the assistance and approval of three or more faculty advisors. Because of the interdisciplinary nature of the Special Major, students are required to obtain the assistance and concurrence of faculty advisors from the key instructional units listed in the Program of Study. Obtain the detailed Graduate Special Major guidelines from the Office of Graduate Studies, River Front Center 206, (916) 278-6470. Prepare the program in consultation with the faculty committee.

Advancement to Candidacy
Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure may begin as soon as the classified graduate student has:

• removed any deficiencies in admission requirements;
• completed at least 12 units of 200-level courses with a minimum 3.0 GPA; and
• taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Master of Arts/Master of Science – Special Major
Minimum upper division and graduate level units required: 30

• At least 18 units must be in regularly established lecture or seminar courses at the 200 level (not to include 299 courses).
• No more than six units may be in Independent Study (299 or similar courses).
• No more than six units shall be in any one or in any combination of:
  a. approved extension credit;
  b. transfer credit, for work carrying graduate degree residence credit at another accredited institution. No more than half the units may be in any one department.

Special Major (Undergraduate)

Program Description
When an existing, authorized Bachelor's degree, Minor, Certificate, or Non-Certificate Program of Study does not meet the needs of a student, a Special Major or Minor can be requested. The Special Major or Minor can be a first and only program or a second major or minor. In the latter case, students are encouraged to develop a program of study which complements the first major. Programs will be interdisciplinary in nature and will require at least six units of coursework in each of
at least two academic units. Materials describing the procedures and requirements applying to special majors and minors can be obtained from the Dean’s office in each of the colleges or online at: https://sacramentostate.policystat.com/policy/11442935/latest/ All approvals should be obtained at least one year in advance of graduation date. Final special major program plans with appropriate signatures are submitted to the Dean for Undergraduate Studies, Sacramento Hall 234. The program does not qualify for special major authorization until all parties have approved the program.

Eligibility
To qualify for a Special Major or Minor a student must satisfy the following requirements:

- Before submitting the application to begin work on the Special Major, the student must have a combined grade point average of 2.5 on all coursework completed to that point.
- Describe the educational and career objectives sought.
- Identify and justify the relationship of the pattern of study requested to the objectives sought.
- Outline the coursework and academic activity necessary to complete the objectives cited.
- No more than 6 units may be in Independent Study (199 or similar courses) and Fieldwork (195 or similar courses).
- Obtain the assistance and approval of two or more faculty advisors from the key instructional units listed in the Program of Study as well as the Department or Academic Unit Chairs from those units.
- Obtain the approval of the appropriate college dean(s).
- Submit all materials for review and approval to the Office of Undergraduate Studies, Sequoia Hall, 311.

Specific Degree Requirements
- A minimum/maximum total of 120 units are required for the Bachelor of Arts or Bachelor of Science Special Major
- A BA Special Major must have a minimum of 24 units
- A BS Special Major must have a minimum of 36 units
- Each Special Major must have a minimum of 6 units in each of the key areas of the degree program
- All other University requirements for a Bachelor’s degree, such as State Code, General Education, upper division minimum requirements, etc. must be met.
- At least two-thirds of the upper division units must be taken in residence at California State University, Sacramento

Program Requirements

Special Major
A minimum of 120 units are required for the Bachelor of Arts or Bachelor of Science Special Major. No more than 6 units may be in Independent Study (199 or similar courses) and Fieldwork (195 or similar courses).

The unit requirements for the major are:

- BA: no less than 24 units with at least 12 upper division units
- BS: no less than 36 units with at least 18 upper division units

In all cases at least two thirds of the upper division units must be taken in residence, i.e., at Sacramento State.

Special Minor
Total units required for the Special Minor: 12, including a minimum of 6 upper division units in the field of specialization.

Office of the President
Office of the President (http://www.csus.edu/president/)
California State University, Sacramento
6000 J Street
Sacramento, CA 95819
(916) 278 - 7737

Programs:
Athletics (p. 1156)

Athletics

President’s Office

Program Description
The program of intercollegiate athletics is organized and conducted as an integral part of the total educational program of the University. Academic excellence and athletic accomplishments go hand in hand at Sacramento State. There are three separate and unique missions in this program: to contribute to the educational objectives of the University; to provide a healthy, competitive athletic experience to individual student-athletes; to serve as a public relations vehicle within the community.

The Department of Intercollegiate Athletics offers both academic courses and an intercollegiate athletics program. Academic courses offer the opportunity for individuals to gain knowledge and understanding in a particular area of expertise related to intercollegiate athletics.

Sacramento State has made a strong commitment to the achievement of national excellence at the NCAA Division I level. It also is committed to maintaining an equitable program between men and women.

Special Features
- Most of Sacramento State’s sports are affiliated with the Big Sky Conference.
- Baseball is a member of the Western Athletic Conference
- Men’s Soccer and Beach Volleyball are members of the Big West Conference.
- Gymnastics is a member of the Mountain Pacific Sports Federation.
- Rowing is a member of the American Athletic Conference.
- The Student-Athlete Resource Center (SARC) (Lassen Hall 3002) offers a counseling system for student-athletes, designed specifically by the Department of Intercollegiate Athletics and Student Affairs to ensure academic development.

Student-Athlete Special Action Review Committee
The Student-Athlete Special Action (SASA) Committee serves to review admission appeals for prospective undergraduate Sacramento State student-athletes who do not meet University admission standards, NCAA initial-eligibility requirements, and/or admission exceptions provided through the athletic admissions process. The SASA Committee will also follow the requirements of Assembly Bill 1383-Admission by Exception. The Committee will consider and provide final decisions to the Director of Admissions or their designee on whether an applicant is granted special admission to the University based on previous academic
coursework, grade-point-averages, and test scores (as applicable). Additional educational evidence may also be considered (e.g., academic performance issues, multi-factor background details, and/or those requiring accommodations or appropriate adjustments for equal access to Sacramento State).

The SASA Committee will be comprised of the following individuals and should include at least three voting representatives reviewing each admissions request. For AB 1383 purposes, three senior-level (Associate Vice President or higher-level) administrators must participate in the process (unless the prospect is a California resident expected to be on athletic-related scholarship).

1. Vice President for Student Affairs (Admin IV)
2. Associate Vice President for Enrollment Management and Student Services (Admin III)
3. AVP for Student Affairs and Dean of Students (Admin III)
4. NCAA Faculty Athletic Representative
5. AVP or Vice Provost from Academic Affairs with preference given to the administrator who oversees IPGE
6. Alternate – One Admin III AVP, Vice Provost or Dean, as selected by the VPSA, to serve if an existing member is unable to participate or must recuse themselves from a specific case.

The Committee may request other campus officials input to provide background or serve as support to the committee based on their relationship to the particular case. Examples: athletic coach, admissions representative, Student-Athlete Resource Center staff, or IPGE staff.

The following process will be used in the review of each case:

1. If a prospective student-athlete does not meet University admission standards or a reasonable admission exception during the evaluation process; is denied admission; or denied an admissions appeal to the University, Intercollegiate Athletics (via the head coach and Director of Athletics) may request in writing, a SASA Committee review of the prospect to determine whether the granting of a special exception is warranted.

2. The prospective student-athlete, coaching staff, and/or Director of Athletics should forward or present any relevant information to the SASA Committee for its review and consideration. This can include providing additional documentation and/or meeting in-person or virtually with the Committee.

3. The admission decision recommended by the SASA Committee for each applicant will be forwarded in writing to the Director of Admission or their designee or the AVP for IPGE or their designee (if the review involves an international prospect) and the Student Athlete Resource Center, and should include any requirements or expectations that relate to the student-athlete's admissions recommendation. The SASA Committee's decision is final.

4. The Student Athlete Resource Center Director and staff will assist in the communication of decisions to Intercollegiate Athletics staff (Director of Athletics, Head coach, etc.).

5. Approved prospects will coordinate with the Student Athlete Resource Center for late-admissions procedures, orientation, late-registration and any other requirements or expectations set-forth by the SASA Committee and Sacramento State.

Note: Student-athlete prospects admitted on exception who are not on athletic-related financial aid (i.e. non-scholarship) or non-California resident student-athlete prospects (regardless of athletic-related financial aid status) must participate (i.e. remain on roster) in their sport for a minimum of one year per Assembly Bill 1383.

The SASA Committee's role is intended to review admissions primarily on scholarship student-athlete prospects who are expected to meet at least Academic Redshirt NCAA initial-eligibility requirement status.

Contact Information
Mark Orr, Director of Athletics
Caitlin Prothe, Executive Assistant
Hornet Athletic Center
(916) 278-6348
www.hornetsports.com

Faculty
BRAKEL, KAMDEN
CHRISTIANSEN, REGGIE
CONNORS, MICHAEL
DEDINI, RANDY
JACKSON, EDWARD
KURTZ, KEVIN
LINENBERGER, MICHAEL
MCDANIELS, KENNY
PEREZ, LORI
TAYLOR, TROY
SOLORIO, RANDY
SUTHERLAND, DAVID
VOLTA, RUBEN

ATIC 61. Men's Cross Country. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring
Practice begins mid-August and the season ends in mid-November.
Credit/No Credit

ATIC 62. Men's Tennis. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring
Practice begins the first day of the fall semester and the spring schedule ends the last of May.
Credit/No Credit
ATIC 63. Men's Track and Field. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Indoor Track and Field practice begins in the fall. The competitive season is in the winter. Outdoor Track and Field practice begins the first day of spring semester and the season ends the last week of May.

ATIC 64. Men's Baseball. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins in the fall with the competitive season starting February 1. The 56-game schedule is followed by the NCAA Championships for qualified teams in May.

ATIC 65. Men's Basketball. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-October. The season ends in late February and leads to NCAA Championships for qualified teams.

ATIC 66. Men's Football. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Daily afternoon practice begins in late August. The 10-11 game schedule is followed by NCAA Championships for qualified teams.

ATIC 67. Men's Golf. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins fall semester Monday through Friday starting at noon.

ATIC 68. Men's Soccer. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-October. The competitive season begins in November and continues to the end of February leading to the NCAA Championships for qualified teams.

ATIC 69. Women's Tennis. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins the first day of the fall semester and the spring schedule ends the last of May.

ATIC 70. Women's Track and Field. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Indoor Track and Field practice begins in the fall. The competitive season is in the winter. Outdoor Track and Field practice begins the first day of spring semester and the season ends the last week of May.

ATIC 71. Women's Basketball. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-October. The competitive season begins in November and continues to the end of February leading to the NCAA Championships for qualified teams.

ATIC 72. Women's Soccer. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins in the fall with the competitive season starting November 1. The 10-11 game schedule is followed by NCAA Championships for qualified teams in May.

ATIC 73. Women's Softball. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins the second week of September. Competition consists of one or two matches in the fall and the remaining part of the schedule is during the spring semester. Interested student-athletes who would like to walk on and try out for the team should contact the coach.

ATIC 74. Women's Golf. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins the second week of September. Competition consists of one or two matches in the fall and the remaining part of the schedule is during the spring semester. Interested student-athletes who would like to walk on and try out for the team should contact the coach.

ATIC 75. Women's Rowing. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins the second week of September. Competition consists of one or two matches in the fall and the remaining part of the schedule is during the spring semester. Interested student-athletes who would like to walk on and try out for the team should contact the coach.
ATIC 87. Women's Volleyball. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Preseason begins in mid-August. Competition begins September 1 and ends in mid-December with NCAA Championships for qualified teams. Daily practices are 2:00-5:00 p.m. Interested student-athletes must contact the coach prior to the preseason, be cleared by the Clearinghouse, and meet all eligibility requirements in order to participate in tryouts.
Credit/No Credit

ATIC 88. Women's Cross Country. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-August and the season ends in mid-November.
Credit/No Credit

ATIC 89. Women's Track and Field. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Indoor Track and Field practice begins in the fall. The competitive season is in the Winter. Outdoor Track and Field practice begins the first day of spring semester and the season ends the last week of May.
Credit/No Credit

ATIC 167. Coaching of Football. 3 Units
Term Typically Offered: Fall, Spring

Examines all phases of the game, including offense, defense and special teams. Other topics covered are public/media relations, budget management, academic rules, marketing strategies, officiating, equipment and many other aspects. Lecture two hours, activity two hours.

ATIC 175. Sports Information Fieldwork. 1 - 3 Units
Prerequisite(s): JOUR 123 or instructor permission.
Term Typically Offered: Fall, Spring

Directed observations and work experience with intercollegiate athletics sports information support services. Field work is offered to give students orientation in the profession of sports information services. Supervision is provided by the instructional staff of the university. Each student is required to maintain a record of activities and assignments and to prepare periodic reports.
Note: May be repeated once for credit.
Credit/No Credit

ATIC 195. Field Experience in Intercollegiate Athletics. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed experience in athletics. Student interns keep records of daily experiences and prepare periodic progress reports. Succeeding enrollments should be in different sports.
Note: Registration requires prior approval of Director of Athletics.
Credit/No Credit

ATIC 199. Directed Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research, project or directed reading.
Note: Registration requires approval of the faculty under whom the individual work is to be conducted and the Director of Athletics.
Credit/No Credit
APPENDICES

Appendix A: Determination of Residency for Tuition Purposes

University requirements for establishing residency for tuition purposes are independent from requirements for establishing residency for other purposes, such as for tax purposes, or other state or institutional residency. These regulations were promulgated not to determine whether a student is a resident or nonresident of California, but rather to determine whether a student qualifies to pay university fees at the in-state or out-of-state rate. A resident for tuition purposes is someone who meets the requirements set forth in the Uniform Student Residency Requirements. These laws governing residency for tuition purposes at the California State University are California Education Code sections 68000-68086, 68120-68133, and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900-41915. This material can be viewed by accessing the California State University Office of General Counsel (https://www.calstate.edu/csu-system/administration/general-counsel/) website.

Each CSUs Admissions Office is responsible for determining the residency status of that university’s new and returning students based, as applicable, on the student’s Application for Admission, Residency Questionnaire, and, as necessary, other information the student furnishes. A student who fails to provide sufficient information to establish resident status will be classified a nonresident.

Residency Requirements

Initial Determination: Eligible Immigration Status, Physical Presence and Intent

A student seeking to pay in-state tuition at a California State University (CSU) as a first-time freshman, transfer, or as a post-baccalaureate/graduate student must have an eligible immigration status to establish residency (see https://www.calstate.edu/apply/california-residency-for-tuition-purposes/Pages/default.aspx) Immigration Information, meet physical presence by the Residence Determination Date, and demonstrate intent to indefinitely remain in the State of California for more than one year immediately preceding the Residence Determination Date. If the student is under the age of 19 (with limited exceptions), the student’s residence status is derived from that of the parent or from that of the legal guardian.

Requirements for Residency for Tuition Purposes

Physical Presence: The student or parent/guardian must be physically present in California for more than one year immediately preceding the Residence Determination Date in which enrollment is contemplated. For example, if a student plans to attend the CSU for the Fall 2022 academic term, and the Residence Determination Date for that term is September 20, 2022, the student must establish physical presence in California no later than September 19, 2021.

Intent: California law stipulates the burden of proof rests with the student, and merely living in California for a year does not support a claim for residency for tuition purposes. The student, or in some cases a parent or legal guardian, must demonstrate intent to remain indefinitely in the state for more than one year immediately preceding the Residence Determination Date (RDD) and sever all residential ties with the former state or country of residence. If the student is under the age of 19, the student’s residence status is derived from that of the parent or legal guardian unless an exception applies. There must be sufficient documentation to demonstrate that intent was established more than one year (a minimum of one year and one day) before the RDD.

Documents must include the student’s name, the student’s California address, and a date at least one year and one day prior or on the RDD for the term. For students under the age of 19, documents must be in the parent or legal guardian’s name unless an exception applies. Also, a parent or legal guardian’s immigration status does not preclude a student from establishing residency; therefore, the parent or legal guardian is not required to provide any immigration documents to demonstrate intent.

Evidence demonstrating intent to remain in the State of California indefinitely may vary from case to case, but will include, and is not necessarily limited to, the absence of residential ties to any other state, California voter registration and history of actually voting in California elections, maintaining California vehicle registration and driver’s license, maintaining active California bank accounts, filing California income tax returns and listing a California address on federal tax returns, owning residential property or occupying or renting a residence where permanent belongings are kept, maintaining active memberships in California professional or social organizations, and maintaining a permanent military address and home of record in California.

Immigration Information

A student seeking to pay in-state tuition at a California State University as a first-time freshman, transfer, or as a post-baccalaureate/graduate student must have an eligible immigration status to establish residency. Therefore, the student must be a United States citizen, a permanent resident (Green Card holder), or hold an eligible visa status (see list). If a student does not qualify as a California resident, the student may be eligible for certain exceptions and exemptions.

Nonimmigrant Statuses and Other Categories that are Eligible to Establish California Residency for Tuition Purposes

The Immigration and Nationality Act allows individuals in certain nonimmigrant statuses to establish permanent residency in the United States. Therefore, they are entitled to establish California residency for tuition purposes. For a complete list of eligible visas and other eligible categories, review the Nonimmigrant list Students must hold an eligible visa status at least one year before the Residence Determination Date (RDD) to be eligible to establish California residency for tuition purposes.

Students in the category of Deferred Action for Childhood Arrivals (DACA) or Temporary Protected Status (TPS) are also eligible to establish residency for tuition purposes. Also, students who are adjusting their immigration status, such as asylum, may qualify for residency depending on where they are in the application process.

Most nonimmigrant visa holders, such as an F-1 or J-1 visa holder, are not eligible to establish California residency for tuition purposes. Students with a visa or without an immigration status should contact the university Admissions Office.

Exceptions

Exceptions to the general residency requirements are contained in California Education Code sections 68070-68086 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41906-41906.6, 41910. Whether an exception applies to a particular student can only be determined after the submission of an application for admission and, as necessary, additional supporting documentation. Because neither the university nor the Chancellor’s Office staff may give legal advice,
applicants are strongly urged to review the material for themselves and consult with a legal advisor.

**Quarter Term CSUs**

<table>
<thead>
<tr>
<th>Term</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Winter</td>
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<tr>
<td>Spring</td>
<td>April 1</td>
</tr>
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<td>Summer</td>
<td>July 1</td>
</tr>
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**Semester Term CSUs**

<table>
<thead>
<tr>
<th>Term</th>
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<tbody>
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<tr>
<td>Spring</td>
<td>January 25</td>
</tr>
<tr>
<td>Summer</td>
<td>June 1</td>
</tr>
</tbody>
</table>

**Reclassification - Financial Independence (only applies to continuing students)**

A student classified as a nonresident for a prior term may seek reclassification in any subsequent term; however, reclassification requires that, in addition to satisfying the requirements of physical presence and intent to remain indefinitely in the state, the student must also satisfy the requirement of financial independence as outlined in Title 5 CCR § 41905.5. To do so, the student must contact the appropriate person in the university admissions office and complete a Residency Questionnaire Form and provide supporting documents.

Residence Reclassification - Financial Independence Requirement

- Any nonresident student requesting reclassification to resident for tuition purposes must demonstrate financial independence;
- Student has not and will not be claimed as an exemption for state and federal tax purposes by his/her parent in the calendar year the reclassification application is made and in any of the three calendar years prior to the reclassification application;
- Student has not and will not receive more than seven hundred fifty dollars ($750) per year in financial assistance from his/her parent in the calendar year the reclassification application is made and in any of the three calendar years prior to the reclassification application;
- Student has not lived and will not live for more than six weeks in the home of his/her parent during the calendar year the reclassification application is made and in any of the three calendar years prior to the reclassification application;
- Student has not lived and will not live for more than six weeks in the home of his/her parent during the calendar year the reclassification application is made and in any of the three calendar years prior to the reclassification application;
- Note: Students who receive a government scholarship and/or financial assistance should be viewed the same as state and federal financial aid, and athletics grants-is-aid; and should not be counted as parental support;
- Effective Fall 2020 academic term, if the student meets at least one of the following criteria, the student does not have to meet the financial independence requirement. Student must provide the university admissions office supporting documents (e.g. state income tax returns, court documents, marriage certificate, military order form) that demonstrate they meet the criteria.
- Dependent on a parent who has California residence for more than one year immediately preceding the residence determination date;
- Enrolled in a graduate or postbaccalaureate program, regardless of age;
- Turned 24 years of age by the residence determination date;
- Married or registered domestic partner as of the residence determination date;
- Active duty members serving in the U.S Armed Forces;
- Veteran of the U.S. Armed Forces;
- Legal dependent other than spouse or registered domestic partner;
- Former ward of the court, foster youth or both parents are deceased;
- Declared by a court to be an emancipated minor;
- Unaccompanied youth who is homeless or at risk of becoming homeless.

**Residency Appeals**

A student classified as a nonresident may appeal a final university decision within 30 days of notification by the university. Appeals will be accepted only if at least one of the following criteria applies:

1. The decisions was based on:
   a. A significant error of fact by the university;
   b. A significant procedural error by the university;
   c. An incorrect application of the law which, if corrected would require that the student be reclassified as a California resident; and/or
   d. Significant new information, not previously known or available to the student, became available after the date of the university decision classifying the student as a nonresident and based on the new information, the classification as a nonresident is incorrect.

Instructions to submit an appeal and additional information can be found on the California Residency for Tuition Purposes Website (https://www2.calstate.edu/apply/california-residency-for-tuition-purposes/).

Appeals via email, fax and U.S. mail will not be accepted. A student with a documented disability who is requesting an accommodation to submit an appeal through the California State University (CSU) website (http://www.calstate.edu/) should contact Student Affairs and Enrollment Management at residencyappeals@calstate. (residencyappeals@calstate.edu) or (residencyappeals@calstate.edu).

The office of the Chancellor will either decide the appeal or send the matter back to the university for further review.

A student incorrectly classified as a resident or incorrectly granted an exception from nonresident tuition is subject to reclassification as a nonresident or withdrawal of the exception and subject to payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student may also be subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations. A student previously classified as a resident or previously granted an exception is required to immediately notify the Admissions Office if the student has reason to believe that the student no longer qualifies as a resident or no longer meets the criteria for an exception.

Changes may have been made in the rate of nonresident tuition and in the statutes and regulations governing residency for tuition purposes in California between the time this information is published and the relevant residency determination date. Students are urged to review the statutes and regulations stated above.
Appendix B: Student Conduct

Title 5, California Code of Regulations, § 41301 Standards for Student Conduct.

University Community Values

The university is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the university community should choose behaviors that contribute toward this end. Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the university community, and contribute positively to student and university life.

Grounds for Student Discipline

Student behavior that is not consistent with the Student Conduct Code is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences. The following are the grounds upon which student discipline can be based:

1. Dishonesty, including:
   a. Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage.
   b. Furnishing false information to a University official, faculty member, or university office.
   c. Forgery, alteration, or misuse of a University document, key, or identification instrument.
   d. Misrepresenting one's self to be an authorized agent of the University or one of its auxiliaries.
2. Unauthorized entry into, presence in, use of, or misuse of university property.
3. Willful, material and substantial disruption or obstruction of a university-related activity, or any on-campus activity.
4. Participating in an activity that substantially and materially disrupts the normal operations of the university, or infringes on the rights of members of the university community.
5. Willful, material, and substantial obstruction of the free flow of pedestrian or other traffic, on or leading to university property or an off-campus university related activity.
6. Disorderly, lewd, indecent, or obscene behavior at a university related activity, or directed toward a member of the university community.
7. Conduct that threatens or endangers the health or safety of any person within or related to the university community, including physical abuse, threats, intimidation, harassment, or sexual misconduct.
8. Hazing or conspiracy to haze. Hazing is defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which is likely to cause serious bodily injury to any former, current, or prospective student of any school, community college, college, university or other educational institution in this state (Penal Code 245.6), and in addition, any act likely to cause physical harm, personal degradation or disgrace resulting in physical or mental harm, to any former, current, or prospective student of any school, community college, college, university or other educational institution. The term "hazing" does not include customary athletic events or school sanctioned events. Neither the express or implied consent of a victim of hazing, nor the lack of active participation in a particular hazing incident is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.
9. Use, possession, manufacture, or distribution of illegal drugs or drug-related paraphernalia, (except as expressly permitted by law and university regulations) or the misuse of legal pharmaceutical drugs.
10. Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and university regulations), or public intoxication while on university or at a university related activity.
11. Theft of property or services from the university community, or misappropriation of university resources.
12. Unauthorized destruction, or damage to university property or other property in the university community.
13. Possession or misuse of firearms or guns, replicas, ammunition, explosives, fireworks, knives, other weapons, or dangerous chemicals (without the prior authorization of the university president) on campus or at a university related activity.
14. Unauthorized recording, dissemination, or publication of academic presentations (including handwritten notes) for a commercial purpose.
15. Misuse of computer facilities or resources, including:
   a. Unauthorized transfer into a file, for any purpose.
   b. Unauthorized transfer of a file.
   c. Use of another's identification or password.
   d. Use of computing facilities, university network, or other resources to interfere with the work of another member of the university community.
   e. Use of computing facilities and resources to send obscene or intimidating and abusive messages.
   f. Use of computing facilities and resources to interfere with normal University operations.
   g. Use of computing facilities and resources in violation of copyright laws.
   h. Violation of a university computer use policy.
16. Violation of any published University policy, rule, regulation, or presidential order.
17. Failure to comply with directions of, or interference with, any University official or any public safety officer while acting in the performance of his/her duties.
18. Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or wellbeing of members of the University community, to property within the university community or poses a significant threat of disruption or interference with university operations.
19. Violation of the Student Conduct Procedures, including:
   a. Falsification, distortion, or misrepresentation of information related to a student discipline matter.
   b. Disruption or interference with the orderly progress of a student discipline proceeding.
   c. Initiation of a student discipline proceeding in bad faith.
   d. Attempting to discourage another from participating in the student discipline matter.
   e. Attempting to influence the impartiality of any participant in a student discipline matter.
   f. Verbal or physical harassment or intimidation of any participant in a student discipline matter.
   g. Failure to comply with the sanction(s) imposed under a student discipline proceeding.
20. Encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.

Procedures for Enforcing This Code
The Chancellor shall adopt procedures to ensure students are afforded appropriate notice and an opportunity to be heard before the university imposes any sanction for a violation of the Student Conduct Code 1.

1 At the time of publication, such procedures are set forth in California State University Executive Order 1098 (Revised March 29, 2019), available at https://calstate.policystat.com/policy/6742449/latest/.

Application of This Code
Sanctions for the conduct listed above can be imposed on applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending. Conduct that threatens the safety or security of the university community, or substantially disrupts the functions or operation of the University is within the jurisdiction of this Article regardless of whether it occurs on or off university. Nothing in this Code may conflict with Education Code Section 66301 that prohibits disciplinary action against students based on behavior protected by the First Amendment.

Title 5, California Code of Regulations, Section 41302. Disposition of Fees: University Emergency; Interim Suspension
The President of the university may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of university emergency, as determined by the President of the individual university, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any of the CSUs other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

Appendix C: Privacy Rights of Students in Education Records
The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) (FERPA) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect students’ privacy in their educational records maintained by the university. The statute and regulations govern access to certain student records maintained by the university and the release of those records. FERPA provides that the university must give students access to most records directly related to the student, and must also provide opportunity for a hearing to challenge the records if the student claims they are inaccurate, misleading, or otherwise inappropriate. The right to petition to correct a record under FERPA does not include the right to challenge the appropriateness of a grade determined by the instructor. In addition, FERPA generally requires the university obtain a student’s written consent before releasing personally identifiable data pertaining to the student. The university has adopted a set of policies and procedures governing the implementation of FERPA and its regulations. Copies of these policies and procedures may be obtained at Lassen Hall 3008. Among the types of information included in the university statement of policies and procedures is:

1. The student records maintained and the information they contain;
2. The university official responsible for maintaining each record;
3. The location of access lists indicating persons requesting or receiving information from the record;
4. Policies for reviewing and expunging records;
5. Student access rights to their records;
6. Procedure for challenging the content of student records; and
7. The right of the student to file a complaint with the Department of Education.

The Department of Education has established an office and review board to investigate complaints and adjudicate violations. The designated office is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, D.C. 20202-5920.

FERPA authorizes the university to release “directory information” pertaining to students. “Directory information” may include the student’s name, address, telephone listing, electronic mail address, photograph, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, grade level, enrollment status, degrees, honors, and awards received, and the most recent previous educational agency or institution the student attended. The university may release the “directory information” at any time unless the university has received prior written objection from the student specifying the information the student requests not be released. Written objections should be sent to the Office of the University Registrar (Lassen Hall 2000).

The university is authorized to provide access to student records to university officials and employees who have legitimate educational interests in such access. These persons have responsibilities in the university’s academic, administrative or service functions and have reason for accessing student records associated with their university or other related academic responsibilities. Student records will be disclosed to the CSU Chancellor’s Office to conduct research, to analyze trends, or to provide other administrative services. Student records may also be disclosed to other persons or organizations under certain conditions (e.g., as part of the accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; or to other institutions to which the student is transferring).

All student records of the California State University, including California State University, Sacramento, are kept in accordance with the provisions of the FERPA, as amended.
FERPA affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student’s education records within 45 days of the day the University receives a request for access. Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom request should be addressed.

2. The right to request the amendment of the student’s education records that the student believes are inaccurate or misleading. Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student’s education records and the right to withdraw consent to disclosure FERPA authorizes disclosure without consent to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an auditor, clearinghouse, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. In addition, the University may disclose education records without consent upon request a) to officials of another school in which a student seeks or intends to enroll, and b) to a parent who establishes that student’s status as a dependent according to Internal Revenue Code.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by California State University, Sacramento to comply with the requirements of FERPA. The name and address of the office that administers FERPA is: Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-4605

5. California State University, Sacramento shall exercise its prerogative within the Family Educational Rights and Privacy Act, as amended, and release directory information to any person, party, or agency, so long as the student has not requested confidentiality. University directory information is defined as that information contained in an education record of the student that generally would not be considered harmful or an invasion of privacy if disclosed. The following is considered Direct Information and Sacramento State will release and make available to the public unless notified by the student to withhold release of this information: Student’s name, addresses, University email address, telephone number, likenesses used in University publications including photographs, date of birth, major field of study, class level, dates of attendance, enrollment status (part/full-time), degrees earned, awards and honors (e.g., Dean’s Honor List) received, participation in University recognized activities and sports, weight and health of members of athletic teams and most recent educational agency or institution attended by the student. For student employees covered by the Unit 11 Collective Bargaining Agreement with the United Auto Workers (e.g., Teaching Associates, Graduate Assistants, and Instructional Student Assistants), directory information which may be released by the CSU to the UAW also includes: enrollment status (undergraduate vs. graduate, part-time vs. full-time), department employed and employment status (e.g., TA, GA, or ISA). Data may be added to or removed from the definition of directory information from time to time. Only currently enrolled students may withhold disclosure of directory information by filing a request form with the Office of the Registrar through the Student Services Counter.

For more information about FERPA, please go to the University Registrar’s website (http://www.csus.edu/registrar/Confidentiality%20FERPA/).

Appendix D: Average Support Cost & Source of Funds Per Full-Time Equivalent Student

The total support cost per full-time equivalent student (FTES) includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of FTES. The total CSU 2022-23 budget amounts were $4,589,590,000 from State General Fund (GF) appropriations, before a $(68.5) million CalPERS retirement adjustment, $2,446,491,000 from gross tuition revenue, and $672,655,000 from other fee revenues for a total of $7,708,736,000. The 2022-23 resident FTES target is 383,680 and the nonresident FTES based on past-year actual is 19,953 for a total of 403,633 FTES. The GF appropriation is applicable to resident students only whereas fee revenues are collected from resident and nonresident students. FTES is derived by dividing the total student credit units attempted by a fixed amount depending on academic level (e.g., 30 for a semester university and 45 for a quarter university, the figures that define a full-time undergraduate or postbaccalaureate student’s academic load).

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<th>Source of Funds</th>
<th>Amount</th>
<th>Average Cost per FTES</th>
<th>Percentage</th>
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<td>State Appropriation (GF)</td>
<td>$4,589,590,000</td>
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<tr>
<td>Gross Tuition Revenue</td>
<td>$2,446,491,000</td>
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<td>31.7%</td>
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<tr>
<td>Other Fees Revenue</td>
<td>$672,655,000</td>
<td>$1,667</td>
<td>8.7%</td>
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<tr>
<td>Total Support Cost</td>
<td>$7,708,736,000</td>
<td>$19,690</td>
<td>100%</td>
</tr>
</tbody>
</table>

1 Represents state GF appropriation in the Budget Act of 2022-23; GF is divisible by resident students only (383,680 FTES).
The 2022-23 average support cost per FTES based on GF appropriation and tuition fee revenue only is $18,023 and is $19,960, which includes all fee revenue (e.g., tuition fees, application fees, and campus mandatory fees) in the CSU Operating Fund. Of this amount, the average tuition and other fee revenue per FTES is $7,728.

The average CSU 2022-23 academic year, resident, undergraduate student basic tuition and other mandatory fees required to apply to, enroll in, or attend the university is $7,520 ($5,742 tuition fee plus $1,778 average campus-based fees). However, the costs paid by individual students will vary depending on the university, program, and whether a student is part-time, full-time, resident, or nonresident.

Appendix E: Procedure for the Establishment or Abolishment of University-Based Mandatory Fees

The law governing the California State University provides that specific university fees defined as mandatory, such as a student association fee and a student center fee, may be established. A student association fee must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code, Section 89300). The university President may adjust the student association fee only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose. The required fee shall be subject to referendum at any time upon the presentation of a petition to the university President containing the signatures of 10 percent of the regularly enrolled students at the university. Student association fees support a variety of cultural and recreational programs, childcare centers, and special student support programs. A student body center fee may be established only after a fee referendum is held which approves by a two-thirds favorable vote the establishment of the fee (Education Code, Section 89304). Once bonds are issued, authority to set and adjust student center fees is governed by provisions of the State University Revenue Bond Act of 1947, including, but not limited to, Education Code sections 90012, 90027, and 90068. A student success fee may be established or adjusted only after the university undertakes a rigorous consultation process and a fee referendum is held with a simple majority favorable vote (Education Code, Section 89712). The student success fee may be rescinded by a majority vote of the students only after six years have elapsed following the vote to implement the fee.

The process to establish and adjust other university-based mandatory fees requires consideration by the university fee advisory committee and a consultation of student referendum process as established by California State University Student Fee Policy, Section III (or any successor policy). The university President may use consultation mechanisms if he/she determines that a referendum is not the best mechanism to achieve appropriate and meaningful consultation, and referendum is not required by the Education Code of Student Success Fee policy. Results of the referendum and the fee committee review are advisory to the university President. The President may adjust university-based mandatory fees but must request the Chancellor to establish a new mandatory fee. The President shall provide to the university fee advisory committee a report of all university-based mandatory fees. The university shall report annually to the Chancellor a complete inventory of all university-based mandatory fees.

For more information or questions, please contact the System Budget Office in the CSU Chancellor’s Office at (562) 951-4560.

Appendix F: Nondiscrimination Policy and Complaint Procedures

Protected Status: Age, Genetic Information, Marital Status, Medical Condition, Nationality, Race or Ethnicity (including color, caste, or ancestry), Religion or Religious Creed, and Veteran or Military Status.

California State University does not discriminate on the basis of age, genetic information, marital status, medical condition, nationality, race or ethnicity (including color, caste and ancestry), religion (or religious creed), and veteran or military status – as these terms are defined in the CSU Policy Prohibiting Discrimination, Harassment, Sexual Misconduct, Sexual Exploitation, Dating Violence, Domestic Violence, Stalking, and Retaliation (Nondiscrimination Policy) in its programs and activities, including admission and access. Federal and state laws, including Title VI of the Civil Rights Act of 1964 and the California Equity in Higher Education Act, prohibit such discrimination. The Office for Equal Opportunity has been designated to coordinate the efforts of California State University, Sacramento to comply with all applicable federal and state laws prohibiting discrimination on these bases. Inquiries concerning compliance may be presented to Skip Bishop, Director of Equal Opportunity, at California State University, Sacramento 6000 J Street, Sacramento, CA 95819-6032, (916) 278-5770. CSU Policy Prohibiting Discrimination, Harassment, Sexual Misconduct, Sexual Exploitation, Dating Violence, Domestic Violence, Stalking, and Retaliation (Nondiscrimination Policy) Made Against a Student, (or any successor policy) is the systemwide procedure for all complaints or discrimination, harassment or retaliation made against other CSU students. CSU Policy Prohibiting Discrimination, Harassment, Sexual Misconduct, Sexual Exploitation, Dating Violence, Domestic Violence, Stalking, and Retaliation (Nondiscrimination Policy) Made Against an Employee or Third-Party (or any successor procedure) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made against the CSU, a CSU employee or a third party.

Protected Status: Disability

The California State University does not discriminate on the basis of disability (physical and mental) – as this term is defined in the CSU Policy Prohibiting Discrimination, Harassment, Sexual Misconduct, Sexual Exploitation, Dating Violence, Domestic Violence, Stalking, and Retaliation (Nondiscrimination Policy) – in its programs and activities, including admission and access. Federal and state laws, including sections 504 and 508 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, prohibit such discrimination. The Office for Equal Opportunity has been designated to coordinate the efforts of California State University, Sacramento to comply with all applicable federal and state laws prohibiting discrimination on the basis of disability. Inquiries concerning compliance may be presented to Skip Bishop, Director of Equal Opportunity, at California State University, Sacramento 6000 J Street, Sacramento, CA 95819-6032, (916) 278-5770. CSU Policy Prohibiting Discrimination, Harassment, Sexual Misconduct, Sexual Exploitation, Dating Violence, Domestic Violence, Stalking, and Retaliation (Nondiscrimination Policy) Made Against a Student (or any successor policy) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made against other CSU students. CSU Policy Prohibiting Discrimination, Harassment, Sexual
Misconduct, Sexual Exploitation, Dating Violence, Domestic Violence, Stalking, and Retaliation (Nondiscrimination Policy) Made Against an Employee or Third-Party (or any successor procedure) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made against the CSU, a CSU employee or a third party)

**Protected Status: Gender (or sex), Gender Identity (including nonbinary and transgender), Gender Expression and Sexual Orientation**

California State University does not discriminate on the basis of gender (or sex), gender (including nonbinary and transgender), gender expression or sexual orientation – as these terms are defined in CSU policy – in its programs and activities, including admission and access. Federal and state laws, including Title IX of the Education Amendments of 1972, prohibit such discrimination. The Office of Equal Opportunity, has been designated to coordinate the efforts of California State University, Sacramento to comply with all applicable federal and state laws prohibiting discrimination on these bases. Inquiries concerning compliance may be presented to Skip Bishop at (916) 278-5770, equalopportunity@csus.edu, or visit our website at www.csus.edu/hr/departments/equal-opportunity/ (http://www.csus.edu/hr/departments/equal-opportunity/). The California State University is committed to providing equal opportunities to all CSU students in all university programs, including intercollegiate athletics. CSU Policy Prohibiting Discrimination, Harassment, Sexual Misconduct, Sexual Exploitation, Dating Violence, Domestic Violence, Stalking, and Retaliation (Nondiscrimination Policy) Made Against a Student (or any successor) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made against other CSU students. CSU Policy Prohibiting Discrimination, Harassment, Sexual Misconduct, Sexual Exploitation, Dating Violence, Domestic Violence, Stalking, and Retaliation (Nondiscrimination Policy) Made Against an Employee or Third-Party (or any successor procedure) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made against the CSU, a CSU employee or a third party).

As a matter of federal and state law and California State University policy, the following types of conduct are prohibited:

**Sex Discrimination or Gender Discrimination** is (an) adverse action taken against a complainant because of their protected status.

**Adverse Action** means an action engaged in by the respondent that has a substantial and material adverse effect on the complainant's ability to participate in a university program, activity, or employment. Minor or trivial actions or conduct not reasonably likely to do more than anger or upset a complainant does not constitute and adverse action.

**Sexual Harassment** means unwelcome verbal, nonverbal or physical conduct of a sexual nature that includes, but is not limited to, sexual advances, requests for sexual favors, offering employment benefits or giving preferential treatment in exchange for sexual favors, or indecent exposure, and any other conduct of a sexual nature where:

1. Submission to, or rejection of, the conduct is explicitly or implicitly used as the basis for any decision affecting a Complainant's academic status or progress, or access to benefits and services, honors, programs, or activities available at or through the university; or
2. Submission to, or rejection of, the conduct by the Complainant is explicitly or implicitly used as the basis for any decision affecting a term or condition of the Complainant's employment, or an employment decision; or
3. The conduct is sufficiently severe, persistent, or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the Complainant, and is in fact considered by the Complainant, as limiting their ability to participate in or benefit from the services, activities or opportunities offered by the university; or
4. The conduct is sufficiently severe, persistent, or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the Complainant, and is in fact considered by the Complainant, as creating an intimidating, hostile or offensive environment.

Sexual Harassment could include being forced to engage in unwanted sexual contact as a condition of membership in a student organization or in exchange for a raise or promotion; being subjected to video exploitation or a campaign of sexually explicit graffiti; or being exposed to unwanted images of a sexual nature in a work environment, or in a classroom where the images are unrelated to the coursework.

Claiming that the conduct was not motivated by sexual desire is not a defense to a complaint of Sexual Harassment.

Sexual and/or romantic relationships between members of the campus community may begin as consensual, and may develop into situations that lead to Discrimination, Harassment, Retaliation, Sexual Misconduct, Dating or Domestic Violence, or Stalking subject to this policy.

**Sexual Misconduct**

All sexual activity between members of the CSU community must be based on **Affirmative Consent**. Engaging in any sexual activity without first obtaining Affirmative Consent to the specific activity is Sexual Misconduct, whether or not the conduct violates any civil or criminal law.

Sexual activity includes, but is not limited to:

- Kissing
- Touching intimate body parts
- Fondling
- Intercourse
- Penetration, no matter how slight, of the vagina or anus with any part or object
- Oral copulation of a sex organ by another person.

Sexual Misconduct includes, but is not limited to, the following conduct:

- An attempt, coupled with the ability, to commit a violent injury on the person of another because of that person's Gender or Sex,
- The intentional touching of another person's intimate body parts without Affirmative Consent,
- Intentionally causing a person to touch the intimate body parts of another without Affirmative Consent,
- Using a person's own intimate body part to intentionally touch another person's body without Affirmative Consent,
- Any unwelcome physical sexual acts, such as unwelcome sexual touching,
- Using physical force, violence, threat, or intimidation to engage in sexual activity,
- Ignoring the objections of the other person to engage in sexual activity,
- Causing the other person's incapacitation through the use of drugs or alcohol to engage in sexual activity,
• taking advantage of the other person’s incapacitation to engage in sexual activity.

1. Intimate body part means the sexual organ, anus, groin, buttocks, or breasts of any person.

2. Sexual activity between a Minor (a person younger than 18 years old) and a person who is at least 18 and two years older than the Minor always constitutes Sexual Misconduct, even if there is Affirmative Consent to all sexual activity. The existence of Affirmative Consent and/or the type of sexual activity may be relevant to the determination of an appropriate Sanction.

3. Persons of all Genders, Gender Identities, Gender Expressions, and Sexual Orientations can be victims of these forms of Sexual Misconduct. Sexual Misconduct can be committed by an individual known to the victim including a person the Complainant may have just met, i.e., at a party, introduced through a friend, or on a social networking website.

4. Affirmative Consent
   Affirmative Consent must be voluntary, and given without coercion, force, threats, or intimidation.
   It is the responsibility of each person involved in the sexual activity to ensure Affirmative Consent has been obtained from the other participant(s) prior to engaging in the sexual activity.
   Affirmative Consent means an agreement to engage in sexual activity that is:
   • Informed
   • Affirmative
   • Conscious
   • Voluntary and
   • Mutual
   • Lack of protest or resistance does not mean there is Affirmative Consent.
   • Silence does not mean there is Affirmative Consent.
   • The existence of a dating or social relationship between those involved, or the fact of past sexual activities between them, should never by itself be assumed to be an indicator of Affirmative Consent.
   • A request for someone to use a condom or birth control does not, in and of itself, mean there is Affirmative Consent.
   • Affirmative Consent can be withdrawn or revoked. Consent must be ongoing throughout a sexual activity and can be revoked at any time, including after sexual activity begins. Once consent is withdrawn or revoked, the sexual activity must stop immediately. Consent to one form of sexual activity (or one sexual act) does not constitute consent to other forms of sexual activity. Consent given to sexual activity on one occasion does not constitute consent on another occasion.

1. Incapacitation
   Affirmative Consent cannot be given by a person who is incapacitated. A person is unable to consent when asleep, unconscious, or incapacitated due to the influence of drugs, alcohol, or medication so that the person could not understand the fact, nature, or extent of the sexual activity. A person is incapacitated if the person lacks the physical and/or mental ability to make informed, rational decisions. A person with a medical or mental disability may also lack the capacity to give consent.
   Whether an intoxicated person (as a result of using alcohol or other drugs) is incapacitated depends on the extent to which the alcohol or other drugs impact the person’s decision-making ability, awareness of consequences, and ability to make informed judgments. A person’s own intoxication or incapacitation from drugs or alcohol does not diminish that person’s responsibility to obtain Affirmative Consent before engaging in sexual activity.
   Sexual activity with a minor (a person under 18 years old) is not consensual, because a minor is considered incapable of giving consent due to age.
   It shall not be a valid excuse that a person affirmatively consented to the sexual activity if the Respondent knew or reasonably should have known that the person was unable to consent to the sexual activity under any of the following circumstances:
   • The person was asleep or unconscious
   • The person was incapacitated due to the influence of drugs, alcohol, or medication, so that the person could not understand the fact, nature, or extent of the sexual activity
   • The person could not understand the fact, nature, or extent of the sexual activity, or was unable to communicate, due to a mental or physical condition
   It shall not be a valid excuse that the Respondent believed that the person consented to the sexual activity under either of the following circumstances:
   • The Respondent’s belief in Affirmative Consent arose from the intoxication or recklessness of the Respondent;
   • The Respondent did not take reasonable steps, in the circumstances known to the Respondent at the time, to ascertain whether the person affirmatively consented.

1. Dating Violence and Domestic Violence
   Dating Violence means physical violence or threat of physical violence committed by a person—
   a. who is or has been in a social relationship of a romantic or intimate nature with the Complainant; and
   b. where the existence of such a relationship shall be determined based on a consideration of the following factors:
   I. The length of the relationship.
   II. The type of relationship.
   III. The frequency of interaction between the persons involved in the relationship.
   Domestic Violence means physical violence or threat of physical violence committed by a current or former spouse or intimate partner of the Complainant, by a person with whom the Complainant shares a child in common, by a person who is cohabitating with or has cohabitated with the Complainant as a spouse or intimate partner, or by a person similarly situated to a spouse of the Complainant.
   Physical violence means physical conduct that intentionally or recklessly threatens the health and safety of the recipient of the behavior, including assault.

2. Stalking
   Stalking means engaging in a Course of Conduct directed at a specific person that would cause a reasonable person to fear for the safety of self or others’ safety or to suffer Substantial Emotional Distress. For purposes of this definition:
   Course of Conduct means two or more acts, including but not limited to, acts in which one party directly, indirectly, or through third parties, by any action, method, device, or means, follows, monitors,
observes, surveils, threatens, or communicates to or about the other party, or interferes with the other party's property.

Substantial Emotional Distress means significant mental suffering or anguish that may but does not necessarily require medical or other professional treatment or counseling.

1. Prohibited Consensual Relationships
A Prohibited Consensual Relationship is a consensual sexual or romantic relationship between an Employee and any Student or Employee over whom they exercise direct or otherwise significant academic, administrative, supervisory, evaluative, counseling, or extracurricular authority.

2. Retaliation
Retaliation means that a substantial motivating reason for an Adverse Action taken against a person was because the person has or is believed to have:

a. Exercised their rights under this policy,
b. Reported or opposed conduct which was reasonably and in good faith believed to be in violation of this policy,
c. Assisted or participated in an investigation/proceeding under this policy, regardless of whether the Complaint was substantiated,
d. Assisted someone in reporting or opposing a violation of this policy or assisted someone in reporting or opposing Retaliation under this policy.

Adverse Action means an action engaged in by the Respondent that has a substantial and material adverse effect on the Complainant’s ability to participate in a university program, activity, or employment. Minor or trivial actions or conduct not reasonably likely to do more than anger or upset a Complainant does not constitute an Adverse Action.

Retaliation may occur whether or not there is a power or authority differential between the individuals involved.

Additional Prohibited Conduct Definitions

3. Sexual Harassment means conduct on the basis of Sex that satisfies one or more of the following:

a. An Employee conditioning the provision of an aid, benefit, or service of the University on an individual's participation in unwelcome sexual conduct;
b. Unwelcome conduct determined based on the reasonable person standard to be so severe, pervasive, and objectively offensive that it effectively denies a person equal access to an Education Program or Activity.
c. Sexual Assault includes the following:
   i. Rape is the penetration, or attempted penetration, no matter how slight, of the vagina or anus with any body part or object, or oral penetration by a sex organ of another person, without the Affirmative Consent of the Complainant. Rape also includes the attempted penetration, no matter how slight, of the vagina or anus with any body part or object, or oral penetration by a sex organ of another person, without the Affirmative Consent of the Complainant, with the present ability and the intent to commit Rape.
   ii. Fondling is the touching of the private body parts of another person for the purpose of sexual gratification, without the Affirmative Consent of the victim, including instances where the Complainant is incapable of giving Affirmative Consent because of their age or because of their temporary or permanent mental incapacity.
   iii. Incest is sexual intercourse between persons who are related to each other within the degrees wherein marriage is prohibited by law.
   iv. Statutory Rape is sexual intercourse with a person who is under the age of 18 years, the California statutory age of consent.

The definition of Affirmative Consent is that under Article VII.A.3 above.

d. Dating Violence means physical violence or threat of physical violence committed by a person:
   i. who is or has been in a social relationship of a romantic or intimate nature with the Complainant; and
   ii. where the existence of such a relationship shall be determined based on a consideration of the following factors:
      1. The length of the relationship.
      2. The type of relationship.
      3. The frequency of interaction between the persons involved in the relationship.

e. Domestic Violence means physical violence or threat of physical violence committed by a current or former spouse or intimate partner of the Complainant, by a person with whom the Complainant shares a child in common, by a person who is cohabitating with or has cohabitated with the Complainant as a spouse or intimate partner, or by a person similarly situated to a spouse of the Complainant.

f. Stalking means engaging in a course of conduct directed at a specific person that would cause a reasonable person to:
   i. fear for their safety or the safety of others; or
   ii. suffer substantial emotional distress.

See further information in the California State University Sacramento sexual violence prevention and education statement, Title IX Notice of Nondiscrimination (which includes facts and myths about sexual violence), and Victim's Rights and Options Notice (https://www.csus.edu/title-ix/_internal/_documents/eo1095/rights-and-options.pdf).

Whom to Contact If You Have Complaints, Questions or Concerns

Title IX requires the university to designate a Title IX Coordinator to monitor and oversee overall Title IX compliance. The university Title IX Coordinator is available to explain and discuss the university’s complaint process, including the investigation and hearing process; the availability of reasonable supportive measures (both on and off campus regardless of whether the person chooses to report the conduct); the right to file a criminal complaint (for example, in cases of sexual misconduct); how confidentiality is handled; and other related matters. If you are in the midst of an emergency, please call the police immediately by dialing 9-1-1.

University Title IX Coordinator:
Skip Bishop
Director for Equal Opportunity
6000 J Street, Sacramento CA 95819-6139
(916) 278-5770
Monday—Friday, 8:00 am—5:00 pm

Deputy Title IX Coordinators:
Alison Nygard
Office for Equal Opportunity Investigator
alison.morgan@csus.edu
systemwide procedure for all complaints of discrimination, harassment or retaliation made against the CSU, a CSU employee or a third party.

Duty to Report

Except as provided below under confidentiality and sexual misconduct, dating violence, domestic violence, and stalking, any university employee who knows or has reason to know of allegations or acts that violate university policy shall promptly inform the Title IX Coordinator. These employees are required to disclose all information including the names of the parties, even where the person has requested that their name remain confidential. The Title IX Coordinator will determine whether confidentiality is appropriate given the circumstances of each such incident. (See confidential reporting options outlined below.)

Regardless of whether an alleged victim of gender discrimination ultimately files a complaint, if the university knows or has reason to know about possible sexual discrimination, harassment or misconduct, it must review the matter to determine if an investigation is warranted. The university must then take appropriate steps to eliminate any gender discrimination/harassment/misconduct, prevent its recurrence, and remedy its effects.

U.S. Department of Education, Office for Civil Rights:

(800) 421-3481 (main office), or (415) 486-5555 (California office), or (800) 877-8339 (TDD) or ocr@ed.gov (main office) or ocr.sanfrancisco@ed.gov (California office)

If you wish to fill out a complaint form online with the OCR, you may do so using the Electronic Complaint Form (http://www2.ed.gov/about/offices/list/ocr/complaintintro.html).

If you wish to fill out a complaint form online with the OCR, you may do so at: www2.ed.gov/about/offices/list/ocr/complaintintro.html (http://www2.ed.gov/about/offices/list/ocr/complaintintro.html).

Safety of the Campus Community is Primary

The university’s primary concern is the safety of its university community members. The use of alcohol or drugs never makes the victim at fault for gender discrimination, harassment or sexual misconduct; therefore, victims should not be deterred from reporting incidents of sexual misconduct out of a concern that they might be disciplined for related violations of drug, alcohol or other university policies. Except in extreme circumstances, victims of sexual misconduct shall not be subject to discipline for related violations of the Student Conduct Code.

Information Regarding University, Criminal and Civil Consequences of Committing Acts of Sexual Violence

Individuals alleged to have committed sexual misconduct may face criminal prosecution by law enforcement and may incur penalties as a result of civil litigation. In addition, students may face discipline at the university, up to including suspension or expulsion and withholding of their degrees. Employees may face sanctions up to and including suspension, demotion, or dismissal from employment, pursuant to established CSU policies and provisions of applicable collective bargaining unit agreements.

Students who are found responsible by the university with gender discrimination, harassment or sexual misconduct will be subject to discipline, pursuant to Interim Procedures for Complaints of Discrimination, Harassment, Sexual Misconduct, Sexual Exploitation, Dating Violence, Domestic Violence, Stalking and Retaliation Made Against a Student and the California State University and Student
Conduct Procedures (see the Student Conduct Procedures Policy [https://calstate.policystat.com/policy/6742449/latest/], revised August 14, 2020 (or any successor policy) and will be subject to appropriate sanctions. In addition, during any investigation, the university may implement interim measures in order to maintain a safe and non-discriminatory educational environment. Such measures may include, but not be limited to: immediate interim suspension from the university; a required move from university-owned or affiliated housing; adjustments to course schedule; and/or prohibition from contact with parties involved in the alleged incident.

Confidentiality and Sexual Misconduct, Dating Violence, Domestic Violence and Stalking

The University encourages victims of sexual misconduct, dating violence, domestic violence, or stalking (collectively sexual misconduct) to talk to someone about what happened – so they can get the support they need, and so the university can respond appropriately.

Privileged and Confidential Communications

Physicians, Psychotherapists, Professional Counselors, Licensed Clinical Social Workers, and Clergy – Physicians, psychotherapists, professional, licensed counselors, licensed clinical social workers, and clergy who work or volunteer on or off campus, acting solely in those roles or capacities as part of their employment, and who provide medical or mental health treatment or counseling (and those who act under their supervision, including all individuals who work or volunteer in their centers and offices) may not report any information about an incident of sexual misconduct to anyone else at the University, including the Title IX Coordinator, without the victim's consent. A victim can seek assistance and support from physicians, psychotherapists, professional, licensed counselors, licensed clinical social workers, and clergy without triggering a university investigation that could reveal the victim’s identity or the fact of the victim’s disclosure. However, see limited exceptions below regarding when health care practitioners must report to local law enforcement agencies. Health care practitioners should explain these limited exceptions to victims, if applicable.

Sexual Assault and Domestic Violence Counselors and Advocates – Sexual assault and domestic violence counselors and advocates who work or volunteer on or off campus in sexual assault centers, victim advocacy offices, women's centers, and health centers (including those who act in that role under their supervision, along with nonprofessional counselors or advocates who or volunteer in sexual assault centers, victim advocacy offices, women's centers, gender equity centers, or health centers) may talk to a victim without revealing any information about the victim and the incident of sexual misconduct to anyone else at the University, including the Title IX Coordinator, without the victim’s consent. A victim can seek assistance and support from these counselors and advocates without triggering a university investigation that could reveal his/her identity or that a victim disclosed an incident to them. However, see limited exceptions below regarding when sexual assault and domestic violence counselors and advocates must report to local law enforcement agencies. Counselors and advocates should explain these limited exceptions to victims, if applicable.

The university will be unable to conduct an investigation into a particular incident or pursue disciplinary action against a perpetrator if a victim chooses to:

1. Speak only to a physician, professional licensed counselor, licensed clinical social worker, clergy member, sexual assault counselor, domestic violence counselor or advocate;

2. Maintain complete confidentiality. Even so, these individuals will assist victims in receiving other necessary protection and support, such as victim advocacy, disability services, medical/health services, or legal services, and will advise victims regarding their right to file a Title IX complaint with the University and a separate complaint with local or campus police. If a victim insists on confidentiality, such professionals, counselors and advocates will likely not be able to assist the victim with: campus academic support or accommodations; changes to campus-based living or working schedules; or adjustments to course schedules. A victim who at first requests confidentiality may later decide to file a complaint with the university or report the incident to the police, and thus have the incident fully investigated. These counselors and advocates can provide victims with that assistance if requested by the victim. These counselors and advocates will also explain that Title IX includes protections against retaliation, and that the university will not only take steps to prevent retaliation when it knows or reasonably should know of possible retaliation, but will also take strong responsive action if it occurs.

Exceptions: Under California law, any health practitioner employed in a health facility, clinic, physician’s office, or local or state public health department or clinic is required to make a report to local law enforcement if the health practitioner provides medical services for a physical condition to a patient/victim who the health practitioner knows or reasonably suspects is suffering from:

1. A wound or physical injury inflicted by a firearm;
2. Any wound or other physical injury inflicted upon a victim where the injury is the result of assaultive or abusive conduct (including sexual misconduct, domestic violence, and dating violence). This exception does not apply to sexual assault and domestic violence counselors and advocates. Health care practitioners should explain this limited exception to victims, if applicable.

Additionally, under California law, all professionals described above (physicians, psychotherapists, professional counselors, licensed clinical social workers, clergy, and sexual assault and domestic violence counselors and advocates) are mandatory child abuse and neglect reporters, and are required to report incidents involving victims under 18 years of age to local law enforcement. These professionals will explain this limited exception to victims, if applicable.

Finally, some or all of these professionals may also have reporting obligations under California law to:

1. Local law enforcement in cases involving threats of immediate or imminent harm to self or others where disclosure of the information is necessary to prevent the threatened danger;
2. To the court if compelled by court order or subpoena in a criminal proceeding related to the sexual violence incident. If applicable, these professionals will explain this limited exception to victims.

Reporting to Campus Police or Local Police

If a victim reports to local or campus police about sexual misconduct crimes, the police are required to notify victims that their names will become a matter of public record unless confidentiality is requested. If a victim requests that their identity be kept confidential, their name will not become a matter of public record. However, even if the victim requests confidentiality of identity, campus police should specifically ask the victim if the victim’s name can be provided to the Title IX Office so that the Title IX Coordinator can contact the victim to discuss supportive measures that can be offered. If a victim gives consent to law
enforcement to provide their name to the Title IX Coordinator, their name will not become a matter of public record. Even if a victim does not give the police permission to provide their name to the Title IX Coordinator, campus police will report the facts of the incident itself to the Title IX Coordinator being sure not to reveal to the Title IX Coordinator victim names/identities or compromise their own criminal investigation. The university is required by the federal Clery Act to report certain types of crimes (including certain sex offenses) in statistical reports. However, while the university will report the type of incident in the annual crime statistics report known as the Annual Security Report, victim names/identities will not be revealed.

Reporting to the Title IX Coordinator and Other University Employees

Most university employees have a duty to report sexual misconduct incidents when they are on notice of it. When a victim tells the Title IX Coordinator or another University employee about a sexual misconduct incident, the victim has the right to expect the University to take immediate and appropriate steps to investigate what happened and to resolve the matter promptly and equitably. In all cases, the university strongly encourages victims to report incidents of sexual misconduct directly to the university Title IX Coordinator. As detailed above, in the "Privileged and Confidential Communications" section of this policy, all university employees except physicians, licensed professional counselors, licensed clinical social workers, sexual assault counselors and advocates, must report to the Title IX Coordinator all relevant details about any incidents of sexual misconduct of which they become aware. The university will need to determine what happened - and will need to know the names of the victim(s) and perpetrator(s), any witnesses, and any other relevant facts, including the date, time and specific location of the incident.

To the extent possible, information reported to the Title IX Coordinator or other University employees will be shared only with individuals responsible for handling the University's response to the incident. The University will protect the privacy of individuals involved in a sexual misconduct incident except as otherwise required by law or University policy. A sexual misconduct report may result in the gathering of extremely sensitive information about individuals in the campus community. While such information is considered confidential, University policy regarding access to public records and disclosure of personal information may require disclosure of certain information concerning a report of sexual misconduct. In such cases, efforts will be made to redact the records, as appropriate, in order to protect the victim's identity and privacy and the privacy of other involved individuals. Except as detailed in the section on Privileged and Confidential Communications above, no University employee, including the Title IX Coordinator, should disclose the victim's identity to the police without the victim's consent or unless the victim has also reported the incident to the police.

If a victim requests of the Title IX Coordinator or another University employee that their identity remain completely confidential, the Title IX Coordinator will explain that the University cannot always honor that request and guarantee complete confidentiality. If a victim wishes to remain confidential or request that no investigation be conducted or disciplinary action taken, the University must weigh that request against the University's obligation to provide a safe, non-discriminatory environment for all students, employees, and third parties, including the victim. Under those circumstances, the Title IX Coordinator will determine whether the victim's request for complete confidentiality and/or no investigation can be honored under the facts and circumstances of the particular case, including whether the University has a legal obligation to report the incident, conduct an investigation or take other appropriate steps. Without information about a victim's identity, the University's ability to meaningfully investigate the incident and pursue disciplinary action against the perpetrator may be severely limited. See Executive Order 1095 (https://calstate.policystat.com/policy/6741651/latest/) for further details around confidential reporting, and other related matters.

Additional Resources

Campus Services

Sacramento State's Violence and Sexual Assault Support Services

- Student Health & Counseling Services at The WELL – www.csus.edu/shcs (http://www.csus.edu/shcs/)
- WEAVE (via contract with Sacramento State) 916-920-2952 http://www.weaveinc.org/
- Multi-Cultural Center: 916-278-6101 – http://www.csus.edu/mcc/
- PRIDE Center: 916-278-8720 – http://www.csus.edu/PRIDE/
- Veterans Success Center: 916-278-6733 – http://www.csus.edu/vets/
- ASI Legal Services (Please contact Associated Students, Inc): http://www.asi.csus.edu/
- Student Code of Conduct: http://www.csus.edu/umanual/student/UMS16150.HTM
- California State University, Sacramento's Notice of Nondiscrimination on the Basis of Sex, Myths and Facts about Sexual Violence, and Rights and Options for Victims of Sexual Violence, Dating Violence, Domestic Violence, and Stalking: http://www.csus.edu/titleix/

Off-Campus Services

- U.S. Department of Education, regional office: Office for Civil Rights 50 United Nations Plaza San Francisco, CA 94102 (415) 486-5555 TDD (877) 521-2172 ocr.sanfrancisco@ed.gov
- U.S. Department of Education, national office: Office for Civil Rights (800) 421-3481 TDD (800) 877-8339 OCR@ed.gov
- C A L C A S A (The California Coalition Against Sexual Assault) 1215 K ST, Suite 1100 Esquire Plaza Sacramento, CA 95814 916-446-2520
- Sacramento County Domestic Violence Hotline: 916-920-2952
- National Dating Abuse Helpline: 1-866-331-9474
- National Sexual Assault Hotline: 1-800-656-HOPE (4673)
- My Sister's House: 916-428-3271
Appendices

- A Community for Peace: 916-728-7210
- Sacramento County Mental Health Crisis Intervention (24/7): 1-888-881-4881
- Suicide Prevention Crisis Line: 916-368-3111
- California Department of Veterans Affairs: 1-800-952-5626 - (TTY): 1-800-324-5966
- California Department of Rehabilitation: 916-324-1313; 916-558-5807 (TTY) https://www.dor.ca.gov/
- Sacramento Regional Human Rights/Fair Housing Commission: 916-444-6903 https://sccob.saccounty.gov/Pages/FairHousingAgendas.aspx
- California Department of Fair Employment and Housing: 1-800-884-1684 http://www.dfeh.ca.gov/
- Legal Services of Northern California Legal Aid Office: 916-551-2150
- http://lsnc.net/

Inquiries Concerning Compliance

Inquiries concerning compliance or the application of these laws and programs and activities of Sacramento State may be referred to the specific university officers identified above or to the Regional Director of the Office for Civil Rights, United States Department of Education, 50 Beale Street, Suite 7200, San Francisco, California 94105.

Appendix G: University Library Policy and Procedures

(916) 278-6926
library.csus.edu (http://www.library.csus.edu)

Library Hours
For Library hours visit http://library.csus.edu/hours/ or call (916) 278-6926.

Library Privileges
The Sacramento State OneCard serves as a library card. Students, faculty, and staff must present a valid OneCard each time an item is checked out or renewed. Library privileges are nontransferable and the OneCard may be used only by the person to whom it has been issued.

Loan Periods and Renewal Procedures
The basic loan period is 16 weeks, with automatic renewals of the same period. All items are subject to recall. All due date reminders and other notices are sent via Sac State email.

Overdue and Lost Item Fees
An item is overdue one day after the due date. Unless the item is recalled, no fees will accrue until 44 full days after the due date. After that date a bill listing a $90.00 item replacement fee will be sent. For more information regarding Suspensions and Fines, including information on Course Reserves, please visit: http://library.csus.edu (http://library.csus.edu/content2.asp?pageId=727.html)

To avoid overdue fees check your account at one of the following web locations:
My Library Account: http://library.csus.edu (http://library.csus.edu/content2.asp?pageId=727.html)

My Sac State, Library tab: http://my.csus.edu

Overdue Reminder, Bills, and Overdue Fee Notices
All notices are emailed to your Sac State email address. Notices include: loan receipts, borrowing activity summaries, courtesy, due date change, lost item replacement, and hold shelf notices.

Appendix H: Schedule of Tuition and Fees - 2022/23 & 2023/2024

The CSU makes every effort to keep student costs to a minimum. Tuition and fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU reserves the right, even after tuition or fees are initially charged or initial payments are made, to increase or modify any listed tuition or fees. All listed fees, other than mandatory systemwide tuition, are subject to change without notice, until the date when instruction for a particular semester or quarter has begun. All CSU-listed tuition and fees should be regarded as estimates that are subject to change upon approval by the Board of Trustees, the chancellor or the presidents, as appropriate. Changes in mandatory systemwide tuition will be made in accordance with the requirements of the Working Families Student Fee Transparency and Accountability Act (Sections 66028 through 66028.6 of the California Education Code).

The following reflects applicable systemwide tuition and fees for both semester and quarter universities. These rates are subject to change.

All Students
Application fee (nonrefundable), payable online at the time of application via credit card, e-check or PayPal: $70

2022-2023 Basic Tuition

<table>
<thead>
<tr>
<th>Units</th>
<th>Per Semester</th>
<th>Per Quarter</th>
<th>Per Academic Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Tuition</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.1 or more units</td>
<td>$2,871</td>
<td>$1,914</td>
<td>$5,742</td>
</tr>
<tr>
<td>0 to 6.0 units</td>
<td>$1,665</td>
<td>$1,110</td>
<td>$3,330</td>
</tr>
<tr>
<td>Credential Program Tuition</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.1 or more units</td>
<td>$3,330</td>
<td>$2,220</td>
<td>$6,660</td>
</tr>
<tr>
<td>0 to 6.0 units</td>
<td>$1,932</td>
<td>$1,288</td>
<td>$3,864</td>
</tr>
<tr>
<td>Graduate/Post Baccalaureate Tuition</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.1 or more units</td>
<td>$3,588</td>
<td>$2,392</td>
<td>$7,176</td>
</tr>
<tr>
<td>0 to 6.0 units</td>
<td>$2,082</td>
<td>$1,388</td>
<td>$4,164</td>
</tr>
</tbody>
</table>

2022/2023 Doctorate Tuition

<table>
<thead>
<tr>
<th>Units</th>
<th>Per Semester</th>
<th>Per Quarter</th>
<th>Per Academic Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audiology - All Students</td>
<td>$7,371</td>
<td></td>
<td>$14,742</td>
</tr>
<tr>
<td>Education - All Students</td>
<td>$5,919</td>
<td>$3,946</td>
<td>$11,838</td>
</tr>
<tr>
<td>Nursing Practice - All Students</td>
<td>$7,635</td>
<td></td>
<td>$15,270</td>
</tr>
<tr>
<td>All Students</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupational Therapy - All Students</td>
<td>$8,598</td>
<td></td>
<td>$17,196</td>
</tr>
</tbody>
</table>
Accountability Act (Sections 66028 – 66028.6 of the Education Code). 

requirements of the Working Families Student Fee Transparency and in mandatory systemwide tuition will be made in accordance with the of Trustees, the chancellor or the presidents, as appropriate. Changes as estimates that are subject to change upon approval by the Board or quarter has begun. All CSU-listed tuition and fees should be regarded without notice, until the date when instruction for a particular semester are made, to increase or modify any listed tuition or fees. All listed can be increased when public funding is inadequate. Therefore, CSU reserves and fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU reserves additional fees charged all students) for all CSUs:

### 2022/23 Graduate Business Professional Fee

Charge per Unit: Per Semester = $270, Per Quarter = $180

The Graduate Business Professional Fee is paid on a per unit basis, in addition to basic tuition and university fees, for the specific graduate business programs authorized to assess the fee. A list of academic programs authorized to assess the fee can be found on the CSU Tuition website (https://www.calstate.edu/attend/paying-for-college/csu-costs/tuition-and-fees/Pages/basic-tuition-and-fees.aspx).

2022/23 Nonresident Students (U.S. and Foreign)

Nonresident tuition (in addition to basic tuition and other systemwide fees charged all students) for all CSUs:

Charge Per Unit: Per Semester = $396, Per Quarter = $264.

The total nonresident tuition paid per term will be determined by the number of units taken.

Mandatory systemwide tuition is waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see section on fee waivers).

Students are charged campus fees in addition to tuition and systemwide fees. Information on campus fees can be found by contacting the individual CSUs.

Credit Cards

Visa and MasterCard credit cards may be used for payment of student tuition and fees but may be subject to a non-refundable credit card processing fee.

### Schedule of Tuition and Fees, 2023/24

The CSU makes every effort to keep student costs to a minimum. Tuition and fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU reserves the right, even after tuition or fees are initially charged or initial payments are made, to increase or modify any listed tuition or fees. All listed fees, other than mandatory systemwide tuition, are subject to change without notice, until the date when instruction for a particular semester or quarter has begun. All CSU-listed tuition and fees should be regarded as estimates that are subject to change upon approval by the Board of Trustees, the chancellor or the presidents, as appropriate. Changes in mandatory systemwide tuition will be made in accordance with the requirements of the Working Families Student Fee Transparency and Accountability Act (Sections 66028 – 66028.6 of the Education Code).

<table>
<thead>
<tr>
<th>Physical Therapy</th>
<th>$8,598</th>
<th>$17,196</th>
</tr>
</thead>
<tbody>
<tr>
<td>- All Students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Health - All</td>
<td>$9,450</td>
<td>$18,900</td>
</tr>
<tr>
<td>Students</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Applicable term tuition applies for universities with special terms, as determined by the university. Total college year tuition cannot exceed the academic year plus summer term tuition. The summer term tuition for the education doctorate at quarter universities is equal to the per semester tuition listed in the table. Total tuition for the education doctorate over the college year equals the per academic year tuition plus the per semester tuition for the summer term at all CSUs.

### 2022/23 Basic Tuition

<table>
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Students are charged campus fees in addition to tuition and systemwide fees. Information on campus fees can be found by contacting the individual campus(es).

Credit Cards

Visa, MasterCard, American Express and Discover credit cards may be used for payment of student tuition and fees but may be subject to a non-refundable credit card processing fee.

Appendix I: Availability of Institutional and Financial Assistance Information

The following information concerning student financial assistance may be obtained from the Financial Aid Office, Lassen Hall 1006, (916) 278-6554:

• A description of the federal, state, institutional, local, and private student financial assistance programs available to students who enroll at Sacramento State;
• For each aid program, a description of procedures and forms by which students apply for assistance, student eligibility requirements, criteria for selecting recipients from the group of eligible applicants, and criteria for determining the amount of a student's award;
• A description of the rights and responsibilities of students receiving financial assistance, including federal Title IV student assistance programs, and criteria for continued student eligibility under each program;
• The satisfactory academic progress standards that students must maintain for the purpose of receiving financial assistance and criteria by which a student who has failed to maintain satisfactory progress may reestablish eligibility for financial assistance;
• The method by which financial assistance disbursements will be made to students and the frequency of those disbursements;
• The way the school provides for Pell-eligible students to obtain or purchase required books and supplies by the seventh day of a payment period and how the student may opt out;
• The terms of any loan received as part of the student’s financial aid package, a sample loan repayment schedule, and the necessity for repaying loans;
• The general conditions and terms applicable to any employment provided as part of the student’s financial aid package;
• The terms and conditions of the loans students receive under the Direct Loan and Perkins Loan Programs;
• The exit counseling information the school provides and collects for student borrowers; and
• Contact information for university offices available for disputes concerning federal, institutional and private loans.

• Information concerning the cost of attending Sacramento State is available from the following and includes tuition and fees; the estimated costs of books and supplies; estimates of typical student room, board, and transportation costs; and, if requested, additional costs for specific programs.

Information concerning the refund policies of Sacramento State for the return of unearned tuition and fees or other refundable portions of institutional charges is available from:

Anita Kermes, Director of Financial Aid Office
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6074.

Information concerning policies regarding the return of federal Title IV student assistance funds as required by regulation is available from:

Anita Kermes, Director of Financial Aid Office
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6074.

Information regarding special facilities and services available to students with disabilities may be obtained from:

Rahsaan Ellison-Johnson, Interim Director, Office of Services to Students with Disabilities
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6955.

Information concerning Sacramento State policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus may be obtained from:

Chet Madison, Chief of Police
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6000.

Information concerning Sacramento State annual campus security report and annual fire safety report may be obtained from:

Chet Madison, Chief of Police
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6000.

Information concerning the prevention of drug and alcohol abuse and rehabilitation programs may be obtained from:

Reva Wittenberg, Associate Director of University Wellness
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-82036.
Information regarding student retention and graduation rates at Sacramento State and, if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest may be obtained from:

Yvonne Harris, Associate Vice President, Research Affairs, California State University, Sacramento 6000 J Street Sacramento, CA 95819-6032 (916) 278-6402.

Information concerning athletic opportunities available to male and female students and the financial resources and personnel that Sacramento State dedicates to its men’s and women’s teams may be obtained from:

Mark Or, Director of Athletics California State University, Sacramento 6000 J Street Sacramento, CA 95819-6032 (916) 278-6348.

Information concerning teacher preparation programs at Sacramento State, including the pass rate on teacher certification examinations, may be obtained from:

Elizabeth Christian, Credentials Analysts Office California State University, Sacramento 6000 J Street Sacramento, CA 95819-6032 (916) 278-4567.

Information concerning grievance procedures for students who feel aggrieved in their relationships with the University, its policies, practices, and procedures, or its faculty and staff may be obtained from:

Dr. Ed Mills, Vice President, Student Affairs California State University, Sacramento 6000 J Street Sacramento, CA 95819-6032 (916) 278-6060.

Information concerning student body diversity at Sacramento State, including the percentage of enrolled, full-time students who are (1) male, (2) female, (3) Pell Grant recipients, and (4) self-identified members of a specific racial or ethnic group, must be obtained from:

Yvonne Harris, Associate Vice President, Research Affairs California State University, Sacramento 6000 J Street Sacramento, CA 95819-6032 (916) 278-6402.

Information concerning student activities at California State University, Sacramento is available at http://www.csus.edu/soal/

The federal Military Selective Service Act (the "Act") requires most males residing in the United States to present themselves for registration with the Selective Service System within 30 days of their 18th birthday. Most males between the ages of 18 and 25 must be registered.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. For more information on the Selective Service System and to initiate the registration process, visit www.sss.gov (http://www.sss.gov).

Appendix J: Personal Safety and Protection of Property

Personal Safety and Protection of Public Property

Police Department Building

Police Emergency: (916) 278-6000 or dial 911 from any university phone www.csus.edu/police (http://www.csus.edu/police/)


www.twitter.com/sacstategopolice (https://twitter.com/sacstategopolice/)

The University and the Sacramento State Police Department (formerly known as the Department of Public Safety) encourage the prompt reporting of any incident that compromises the safety, health, or rights of Sacramento State community members. The Sacramento State Police Department is the primary respondent for university emergencies and reports of criminal activity on campus. Officers are fully certified by the State of California with full arrest powers and cooperate with State and local police agencies (Sacramento City Police and Sacramento County Sheriff’s Departments), resulting in the University’s awareness of criminal activity perpetrated beyond the university. Reports of criminal activity will be fully investigated, and appropriate referrals made to the courts, the University, or both.

University Buildings: Buildings on the Sacramento State campus remain open only through the completion of the last scheduled event. A daily schedule is provided to Facilities Management and buildings are electronically locked on the basis of that schedule. For those buildings that are not electronically controlled, Custodial Services and Community Service Specialists are responsible for the unlocking of buildings on a daily basis for scheduled classes. After buildings are locked, only employees with offices and personnel with maintenance responsibilities have access to buildings.

Personal Safety Training: The Sacramento State Police Department has full-time Police Officers who are available, on request, for personal safety presentations to increase awareness and personal responsibility of students, faculty, or staff. Please call (916) 278-6000 for an appointment. Presentations are offered consistently during the semester. Police Department personnel are available for seminars concerning personal safety for women through the Violence and Sexual Assault Support Services (916) 278-3799. In addition, students are employed through the Sacramento State Police Department as Community Service Officers (CSOs) with primary responsibility for providing patrols and community assistance on campus. The CSOs provide directed patrols in the Residential Life Complex, Academic Information Resource Center, and the Library.

Residence Halls: Sacramento State Residence Hall policy requires that exterior doors be locked at all times. All residents are issued a fob for personal access to the exterior doors and rest rooms. A resident must accompany all guests. Additional information is contained in the Guide to Residential Life available through the Office of Residential Life in Sierra Hall.

Publications: Brochures are available through the Sacramento State Police Department which provides additional information and training under the following titles: A Guide to Safe & Responsible Partying, Alcohol Alert, Alcohol - The Hard Facts, Apartment Safety Checklist, Bicycles on campus, Bicycle Safety Tips, CA Driver License & Identification Cards,
appends
collection from either graduates of the university or graduates of all universities in the California State University system.

Appendix M: Changes of Rules and Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the legislature, rules and policies adopted by the Board of Trustees of the California State University, by the Chancellor or designee of the California State University, or by the President or designee of the university. It is not possible in a publication of this size to include all of the rules, policies and other information that pertain to students, the institution, and the California State University. More current or complete information may be obtained from the appropriate department, school, or administrative office.

Appendix N: Credit Hour

On July 1, 2020, the United States Department of Education changed its definition of the student credit hour. Fundamentally, the change shifted responsibility for credit hour compliance to the accreditation agency and/or to the state.

As such, the CSU’s accreditor, the WASC Senior College and University Commission (WSCUC), has published its own updated definition of student credit hour and related accreditation processes. The new regulations no longer require an accrediting agency to review an institution’s credit hour policy and procedures. It does require the WSCUC to review the institution’s definition of credit hour and an institutions’ processes and policies for ensuring the credit hour policy is followed.

The CSU credit hour definition is consistent with federal law (600.2 and 600.4 revised July 1, 2020) and the requirements of the WSCUC. The CSU defines a credit hour as an amount of work represented in stated learning outcomes and verified by evidence of student achievement. Such evidence is an institutionally established equivalency that:

1. Approximates not less than:
   a. One hour of direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately 15 weeks for one semester or equivalent amount of work over a different amount of time; or
   b. At least an equivalent amount of work as required in paragraph 1.a. of this definition for other academic activities as established by the institution including laboratory work, internships, practica, studio work and other academic work leading to the award of credit hours; and

2. Permits an institution, in determining the amount of work associated with a credit hour, to take into account a variety of delivery methods, measurements of student work, academic calendars, disciplines and degree levels. Institutions have the flexibility to award a greater number of credits for courses that require more student work.

As in the past, a credit hour is assumed to be a 50-minute (not 60-minute) period. In some courses, such as those offered online, in which “seat time” does not apply, a credit hour may be measured by an equivalent amount of work, as demonstrated by student achievement.

Appendix K: Civil and Criminal Penalties for Violation of Federal Copyright Laws

Anyone who is found to be liable for copyright infringement may be liable for either the owner’s actual damages along with any profits of the infringer or statutory damages of up to $30,000 per work infringed. In the case of a willful infringement, a court may award up to $150,000 per work infringed. (See 17 U.S.C. §504.) Courts also have discretion to award costs and attorneys’ fees to the prevailing party. (See 17 U.S.C. §505.) Under certain circumstances, willful copyright infringement may also result in criminal penalties, including imprisonment and fines. (See 17 U.S.C. §506 and 18 U.S.C. §2319.)

Appendix L: Career Placement

The Office of Research Affairs or the Office of University Initiatives and Student Success may furnish, upon request, information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. Any such data provided must be in a form that does not allow for the identification of any individual student. This information includes data concerning the average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data.
For purposes of accreditation, all CSU universities are required to develop, communicate and implement procedures for regular, periodic review of this credit hour policy to ensure that credit hour assignments are accurate, reliable and consistently applied. WSCUC published new draft guidelines that took effect in June 2021. Universities are responsible for publishing a clearly stated practice or process that ensures they are in compliance with the student credit hour definition.
COURSES A-Z

Accountancy (ACCY)

ACCY 1. Accounting Fundamentals. 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): Entry Level Math (ELM) test of at least 36 or a CR grade in LS 7A.
Accounting as the basis of an information system with emphasis on concepts and assumptions underlying data accumulation for financial reports. Includes the concepts of income determination and financial position, and the accounting for various types of ownership equities.

ACCY 2. Managerial Accounting. 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ACCY 1.
Use and reporting of accounting data for managerial planning, control, and decision making. Broad coverage of concepts, classification, and behavior of costs.

ACCY 111. Intermediate Accounting I. 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ACCY 111.
In-depth knowledge of how financial information provides information about a company’s: economic resources, obligations, and owner’s equity; income and its components; and cash flows. Topics include the development and application of basic assumptions, principles and constraints underlying financial statements; the use of information derived from financial statements and the limitations of the information; and the use of accounting information to evaluate a company’s return on investment, risk, financial, flexibility, liquidity, and operational capability. Students learn how to prepare financial statements.

ACCY 112. Intermediate Accounting II. 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ACCY 111.
Application of Generally Accepted Accounting Principles to the reporting of tangible and intangible assets, liabilities, and the capital section of the balance sheet. Other topics include the reporting of stock-based compensation and earnings-per-share.

ACCY 113. Intermediate Accounting III. 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ACCY 111.
Application of Generally Accepted Accounting Principles to revenue recognition and matching, pensions, leases, income taxes, accounting changes, interim financial statements, and segmental reporting. Students develop an in-depth knowledge of the preparation and the analysis of the cash flow statement.

ACCY 117. Advanced Accounting. 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ACCY 111 and ACCY 112.
Specialized topics in partnership accounting; consolidated statements; foreign currency translation and financial statements.

ACCY 121. Cost Accounting. 3 Units
Term Typically Offered: Fall, Spring
Importance of the allocation of costs; the cost allocation techniques available to accountants; the techniques used by management to maintain and create enterprise value, e.g., CVP analysis; the accountant’s responsibility for the management of inventory; and the ethical consideration in internal reporting.

ACCY 122. Advanced Management Accounting. 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ACCY 121.
Accountant’s responsibility to provide financial and no financial information to managers; the planning techniques available to accountants; managerial control techniques that enhance the maintenance and improvement of enterprise value, and short-run and long-run analyses.

ACCY 131. Survey of Auditing, Attest, and Assurance Topics. 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ACCY 111, ACCY 112.
Survey of topics in auditing as a control activity in society. Covers a variety of opportunities in the auditing profession including external auditing, internal auditing, compliance auditing, and operational auditing as well as fraud examinations. Topics include evidence and documentation, professional ethics, auditing computer systems, statistical sampling, and internal controls.

ACCY 132. Accountants’ Ethical and Professional Responsibilities. 3 Units
Prerequisite(s): ACCY 111, ACCY 112.
Corequisite(s): ACCY 131.
Term Typically Offered: Fall, Spring
This course addresses professional responsibilities for the accounting profession, including the development of ethical standards, ethical reasoning, AICPA and California Codes of Professional Conduct, financial reporting fraud, corporate governance, and other relevant topics.

ACCY 143. Accounting Data Analytics. 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ACCY 112
Examines the changing technological environment in accounting, and the role of data analytics in accounting. This course will help students to understand different structured and unstructured accounting data, and develop new analytic skills to make better accounting decisions. It will also improve students’ ability to conduct audit analytical procedures in accordance with financial reporting regulatory requirements.

ACCY 161. Government and Nonprofit Accounting. 3 Units
Term Typically Offered: Fall, Spring
Prerequisite(s): ACCY 111
Fundamentals of accounting and financial reporting for governmental units and institutions; accounting for various types of funds; accounting aspects of budgetary control.
ACCY 171. Federal Tax Procedures I. 3 Units
Term Typically Offered: Fall, Spring

Federal taxation concepts are used in effective decision making; a working knowledge of the concepts of gross income, deductions, tax rates, and property transactions as they pertain to C corporations, partnerships, S corporations, and individuals; and proficiency in the application of tax concepts as they pertain to business and individual taxpayers.

ACCY 172. Federal Tax Procedures II. 3 Units
Prerequisite(s): ACCY 171.
Term Typically Offered: Fall, Spring

Business entity formation, operation, and termination and business taxation principles and concepts used in effective decision-making. Students develop the ability to understand and apply business tax principles and the critical and analytical skills that are necessary in the study and application of taxation and tax law.

ACCY 190. International Accounting. 3 Units
Prerequisite(s): ACCY 111, Business Major
Term Typically Offered: Fall, Spring

Accounting concepts, principles, and methods applicable to multinational transactions and global corporations. Contents include the translation of financial statements, comparative accounting systems, financial reporting, currency risk management, international accounting standards and organizations, taxation problems, and the managerial aspects of multinational transactions.

ACCY 194. Cooperative Education Experience in Accountancy. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in accounting for the purpose of exposing the student to comprehensive accountancy experience in business, governmental, or service agencies. Note: Open to upper division students, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

ACCY 195. Internship in Accountancy. 3 Units
Prerequisite(s): Completion of 15 units of upper division business courses at Sacramento State; minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring

Supervised work experience in accountancy for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies. Note: Open to declared business administration upper division majors only, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

ACCY 196B. Exper Offer Accountancy. 3 Units
Prerequisite(s): AIS 141
Corequisite(s): ACCY 131
Term Typically Offered: Fall, Spring

A course in Accounting and Audit Analytics examines the changing technological environment in accounting and the role of data analytics in accounting. This course will help students to understand different structured and unstructured accounting data, and develop new analytic skills to make better accounting decisions. It will also improve student's ability to conduct audit analytical procedures, in accordance with financial reporting regulatory requirements.

ACCY 199. Special Problems in Accountancy. 1 - 3 Units
Prerequisite(s): Senior status or instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Note: Open to declared business administration majors only.

Credit/No Credit

ACCY 220. Accountancy Teaching Experience. 3 - 6 Units
Term Typically Offered: Fall, Spring

Supervised experience of teaching lower division accountancy courses. Students will teach one section of ACCY 1 or 2 for each three units of credit. They may teach no more than two classes (6 units of credit) during any semester and be under direct supervision of an appropriate coordinator. To be eligible, students must register for nine units in addition to ACCY 220 and must have approval of the Department Chair. May not be used to satisfy any requirements in the CBA graduate programs. No student may earn more than twelve (12) units cumulative.

Credit/No Credit

ACCY 240. Integrated Accounting Concepts. 3 Units
Term Typically Offered: Fall, Spring

Designed for students who enter the Master of Science Accountancy program without a Bachelor of Science in Accountancy or students who need to refresh their basic skills and understanding in record keeping, financial statement preparation and analysis, ethics in the practice of accounting, and internal controls through the use of comprehensive case study/practice set. Delivered via independent project work rather than lecture.

ACCY 250. Financial Reporting I. 3 Units
Term Typically Offered: Fall, Spring

Corporate financial reporting to external users in accordance with US Generally Accepted Accounting Principles (GAAP), including financial information about a company's economic resources, obligations, owners' equity, income, case flow, and use of information to evaluate a company's return on investment, risk, financial flexibility, liquidity, and operational capability.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Term Typically Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCY 251</td>
<td>Foundations of International Accounting.</td>
<td>3</td>
<td>ACCY 250 or equivalent.</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>ACCY 260</td>
<td>Financial Reporting II.</td>
<td>3</td>
<td>ACCY 250</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>ACCY 261</td>
<td>Cost Analysis and Control.</td>
<td>3</td>
<td></td>
<td>Fall, Summer</td>
</tr>
<tr>
<td>ACCY 262</td>
<td>Auditing.</td>
<td>3</td>
<td></td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>ACCY 263</td>
<td>Governmental and Non-Profit Accounting.</td>
<td>3</td>
<td></td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>ACCY 264</td>
<td>Taxation of Business Entities.</td>
<td>3</td>
<td></td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>ACCY 265</td>
<td>Advanced Accounting Information Systems Analysis and Controls.</td>
<td>3</td>
<td>ACCY 250 or equivalent.</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>ACCY 266</td>
<td>Business Environment and Concepts.</td>
<td>3</td>
<td></td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>ACCY 269</td>
<td>Taxation of Individuals.</td>
<td>3</td>
<td></td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>ACCY 270</td>
<td>Tax Research and Procedure.</td>
<td>3</td>
<td>ACCY 172 or ACCY 269.</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>ACCY 271</td>
<td>Tax Accounting Periods and Methods.</td>
<td>3</td>
<td>ACCY 172 or ACCY 269.</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>ACCY 272</td>
<td>Taxation of Business Enterprises I - Corporations.</td>
<td>3</td>
<td>ACCY 172 or ACCY 269.</td>
<td>Fall, Spring</td>
</tr>
</tbody>
</table>

The role of culture in accounting; comparative international financial and managerial accounting fundamentals; international financial statement analysis; international accounting standards and U.S. GAAP convergence; international business combinations; foreign exchange; international auditing; international taxation; and international capital flows.

Emphasis on the role of computer and information technology in the development, analysis, and operation of accounting information systems; may include advanced coverage of accounting transaction cycles, accounting systems planning and analysis, accounting system design, accounting systems implementation and operation, the accounting system internal control structure, data modeling and database design in accounting, computer fraud and security, and auditing of computer-based information systems.

Designed to provide understanding of knowledge and skills necessary for the general business environment and business operation. In addition, students are required to apply that knowledge in performing professional responsibilities. Topics include corporate governance, business cycles, global economic markets, business strategy, effect of financial management policies on accounting transactions, economic substance of transactions and their accounting implications, and budgeting/forecasting techniques.

Covers the required topics for tax form preparation for reporting individual incomes. Examines fundamental concepts in tax law and the underlying reasons for income identification, exemption, and deduction.

Tax reporting and collection procedure; administrative and judicial procedures governing tax controversies; the rights and obligations of the taxpayer. Intensive training in performing and communicating tax research. Includes use of current database programs. Lecture basis, followed by "hands-on" application of research methods.

Concepts and principles of the overall cash, accrual and hybrid methods of tax accounting. Applications of specific methods such as: inventory costing and capitalization rules, installment sales, long-term contracts, and original issue discount/time value of money will be examined. Lecture format to present the underlying rules and concepts. Case studies will then be analyzed and discussed by the students to examine the topics in a "real-world" context.

Discusses federal tax law as it applies to corporations, including the following topics: special deductions, formation, distributions, and complete liquidations. Incorporates problem sets, case analysis, a corporate tax return project, and a research project to enhance analytical and critical thinking skills and compliance experience.
ACCY 273. Taxation of Business Enterprises II - Partnerships. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Discusses general concepts, acquisitions and basis of partnerships interests, operations, transfers of partnership interests, and distributions. Incorporates problem sets, a partnership tax return project, and research projects to enhance analytical and critical thinking skills and compliance experience and to develop students' technical proficiency in the application of partnership concepts.

ACCY 274. Estate, Gift and Trust Taxation. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Taxation of decedent's estate and lifetime gifts; valuation of property subject to estate and gift taxes; income taxation of estates and trusts; estate planning. Uses a lecture format to present the underlying rules and concepts. Case studies will then be analyzed and discussed by the students to examine the topics in a "real-world" context.

ACCY 275. International Wealth and Asset Management. 3 Units
Term Typically Offered: Fall, Spring

Importance of global asset protection and wealth management; domestic Statutory and case law authorities of selected European, American and Asian countries as they relate to wealth protection and asset management; bi-lateral international agreements relating to wealth management and asset protection; Multilateral agreement affecting wealth management and asset protection; tax and legal liability minimizing models.

ACCY 276. U.S. Taxation of International Transactions. 3 Units
Prerequisite(s): ACCY 272, Advanced to Candidacy.
Term Typically Offered: Fall, Spring

U.S. tax jurisdiction; U.S. source of income rules and related expense allocation; U.S. taxation of foreign taxpayers; transfer pricing issues; U.S. taxation of the foreign income of U.S. citizens and residents; cross border transactions; foreign currency tax issues; and U.S. bilateral tax agreements. Successful completion will satisfy the culminating experience for the MSBA/Taxation program. Students may select topics for their Master's projects that are outside the discipline topic of the class subject to the approval of the instructor.

ACCY 277. Comparative International Tax Systems. 3 Units
Term Typically Offered: Fall, Spring

The similarities and differences between current global tax systems including jurisdiction and conflict of laws issues; the role of bilateral international tax treaties and other international tax related agreements in business operations; international tax planning for individuals and multinational enterprise including corporations, partnerships and estates and trusts.

ACCY 278. International and Multi-State Taxation. 3 Units
Term Typically Offered: Fall, Spring

Focuses on the taxation of cross-border transactions which encompasses discussion of the laws, rules, and regulations that affect transactions that cross both state and national borders. It covers various issues such as income sourcing and jurisdiction to tax. This course generally discusses these issues from the perspective of a U.S. person, but emphasizes and illustrates the general applicability of these rules for the tax regimes as established by other countries and states.

ACCY 280. Management Control Systems. 3 Units
Term Typically Offered: Fall, Spring

Development of the concepts and practice of management control systems. How alternative accounting-based planning, performance motivation and evaluation, and control systems fit and are used in varying strategic, management, and operative environments. How systems focus and motivate managers' decision behavior. How systems fit and are used in varying decision, competitive, and organization settings. Emphasis is on cases.

ACCY 295. Internship in Accountancy. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's accounting operations. Supervision is provided by the faculty and the cooperating agencies. Open to MS in Accountancy students. Petitions are obtained from Tahoe Hall 1035.
Credit/No Credit

ACCY 296. Experimental Offerings in Accountancy. 3 Units
Term Typically Offered: Fall, Spring

When a sufficient number of qualified students apply, a faculty member may conduct a seminar on a designated advanced topic in accountancy.

ACCY 299. Special Problems in Accountancy. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.

ACCY 500A. Thesis. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MGMT 210 is required for the MBA only.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.

ACCY 500B. Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MGMT 210 is required for the MBA only.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master’s degree.

ACCY 500C. Comprehensive Examination for MS/Accountancy and MSBA/Taxation Degrees. 1 - 3 Units
Prerequisite(s): Advanced to candidacy. For comprehensive examination for MBA only (MGMT 500C, 1 unit), completion of Program Requirements (ACCY 240, MGMT 222, MGMT 223, MGMT 234, MGMT 280, MIS 221, OBE 252). For comprehensive examination for MS/Accountancy and MSBA/Taxation degrees, student must be in final semester of program.
Term Typically Offered: Fall, Spring

Note: MS Accountancy degree, student must be in final semester of program.
Accountancy Information System (AIS)

ACCY 501. Culminating Experience Project in Accounting and Ethics. 3 Units
Prerequisite(s): Advancement to Candidacy
Term Typically Offered: Fall, Spring

Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MS in Accountancy program as required in Title V of the CA Educational Code. The course also covers the development of ethical standards, ethical reasoning, AICPA Code of Professional Conduct, accountants’ professional responsibilities, financial reporting fraud and responses, corporate governance, and other relevant topics.
Note: May be repeated for credit

AIS 141. Accounting Information Systems Development. 3 Units
Term Typically Offered: Fall, Spring

Design, analysis, and implementation of computer-based accounting information systems. Discussion of flow charting, data security, systems development, program architecture, and management of the implementation process. Development of computer applications and formulation of decision information for managerial uses. Use of the computer in projects.

AIS 142. Enterprise and E-Commerce Accounting Models. 3 Units
Prerequisite(s): AIS 141 or instructor permission.
Term Typically Offered: Fall, Spring

Survey of Enterprise Resource Planning (ERP) models, Business-to-Business (B2B) E-commerce models, and the effects of the changing business and technology landscape upon the accounting profession. Topics include internal control, auditing, and economics relating to these new business-process models.

AIS 194. Cooperative Education Experience in Accounting Information Systems Problems. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in accounting information systems for the purpose of exposing the student to comprehensive Accounting Information Systems experience in business, governmental, or service agencies.
Note: Open to upper division students, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

AIS 195. Internship in Accounting Information Systems. 3 - 6 Units
Prerequisite(s): Completion of 15 units of upper division business courses at Sacramento State; minimum GPA of 2.75 required; instructor permission.
Term Typically Offered: Fall, Spring

Supervised work experience in accounting information systems for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and cooperating agencies.
Note: Open to declared business administration upper division majors only, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

AIS 199. Special Problems in Accounting Information Systems. 1 - 3 Units
Prerequisite(s): Senior status or instructor permission.
Term Typically Offered: Fall, Spring

Individual accounting information systems projects or directed reading for students qualified to carry on independent work.
Note: Open to declared business administration majors only. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Anthropology (ANTH)

ANTH 1. Introduction to Biological Anthropology. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring, Summer

Covers the concepts, methods of inquiry, and theory of biological evolution and their application to the human species. There is a specific focus on molecular, Mendelian and population genetics, mechanisms of evolution, primatology, paleoanthropology, biocultural adaptations, and human variation. The scientific method serves as the foundation to the course.

ANTH 1A. Biological Anthropology Laboratory. 1 Unit
Prerequisite(s): ANTH 1 (may be taken concurrently)
General Education Area/Graduation Requirement: Laboratory (B3), Life Forms (B2)
Term Typically Offered: Fall, Spring

Designed to familiarize the student with the materials and techniques of physical anthropology. Includes human and other primate osteology, anthropometric techniques, and allied methods in the gathering and analysis of physical anthropological data. Through working with the departmental collection of fossil casts and a wide variety of charts and models, the student also becomes familiar with the stages of human and primate evolution.
### ANTH 2. Introduction to Cultural Anthropology.
**General Education Area/Graduation Requirement:** GE AREA D  
**Term Typically Offered:** Fall, Spring

Introduction to anthropological approaches in the study of people and cultures. Using ethnographic case studies, the course contributes to a critical understanding of the continuity and diversity in peoples' lifestyles, social institutions, and cultural practices in different societies around the world. The course also examines the impact of political, economic, and social changes, such as colonization, decolonization, and globalization on people and cultures over the last century.

### ANTH 2H. Introduction to Cultural Anthropology - Honors.
**Term Typically Offered:** Fall only

Introduction to anthropological approaches in the study of people and cultures. Using ethnographic case studies, contributes to a critical understanding of the continuity and diversity in peoples' lifestyles, social institutions, and cultural practices in different societies around the world. Examines the impact of political, economic, and social changes, such as colonization, decolonization, globalization, etc., on people and cultures over the last century. Intended for students enrolled in the University’s GE Honors Program.  
**Note:** Students must be admitted to the GE Honors Program.

### ANTH 3. Introduction to Archaeology.
**General Education Area/Graduation Requirement:** GE AREA D  
**Term Typically Offered:** Fall, Spring

Introduces students to the methods and theories used by archaeologists to find, recover, and interpret such remains in an effort to reconstruct and understand the lives of earlier peoples. The class uses archaeological case studies, films, and hands-on examples of tools and other artifacts produced by simple stone age hunters and more complex civilizations that lived in California and other parts of the world.

### ANTH 4. Language, Culture, and Critical Thinking.
**General Education Area/Graduation Requirement:** Critical Thinking (A3)  
**Term Typically Offered:** Fall, Spring

Introduction to the abstract and formal structures of language and cultural dimensions of human communication via major linguistic anthropological concepts, theoretical assumptions, and methodologies. Addresses the logical, formal relationship between underlying rules of natural languages while critically analyzing how speakers from different cultures use language to convey complex social and cultural information. Course illuminates how language is used to create and reinforce relationships of power (race, class, gender); develops ability to recognize linguistic fallacies; and instructs in basic critical thinking skills.

### ANTH 16. Comparative Early Civilizations.
**General Education Area/Graduation Requirement:** Humanities (Area C2)  
**Term Typically Offered:** Fall, Spring

Examines the emergence and development of early civilizations. Studies state formation, urbanization, market system development, and other processes relevant to the evolution of early civilizations from the standpoints of cross-cultural comparison and modern anthropological theory. The goal is to identify cross-cultural regularities as well as critical differences that can explain the various evolutionary trajectories of these societies. The civilizations that will be contrasted include societies from Mesopotamia, Egypt, the Indus Valley, China, Mesoamerica, Andean South America, and other regions.

### ANTH 101. Cultural Diversity.
**Term Typically Offered:** Fall, Spring, Summer

Focuses on analyzing the historically conditioned political, economic and social factors that have contributed to cultural diversity in the U.S.; a critical anthropological approach is developed to explore the intersection of race, class, gender, ethnicity and sexuality; the political economy of institutions and ideas, such as racism, classism, sexual stereotyping, family, religion, state, color-blindness, multiculturalism, etc.; and, discourses of cultural diversity in the U.S.

### ANTH 102. The Nature of Culture.
**Term Typically Offered:** Fall, Spring

An upper division general introduction to cultural anthropology. Divided into two major parts: a survey of theories, methods and concepts of cultural anthropology, and an introduction to applied cultural anthropology.

### ANTH 103. Psychological Anthropology.
**Prerequisite(s):** ANTH 2 or ANTH 102.  
**Term Typically Offered:** Fall, Spring

Cross-cultural comparative approach to human cognition, child-training practices, personality development, deviant behavior, cultural psychiatry, and data gathering techniques.

### ANTH 104. The History of Anthropology.
**Prerequisite(s):** ANTH 146 or instructor permission.  
**Term Typically Offered:** Fall, Spring

Anthropological theory in historical perspective.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Term Typically Offered</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ANTH 105</td>
<td>Anthropology of War</td>
<td>3</td>
<td>ANTH 146 or instructor permission.</td>
<td>Fall, Spring</td>
<td>Examination of the nature of war, primarily as it occurs in pre-industrial societies, and a survey of the kinds of explanations of this phenomenon current in anthropology. Emphasis is on understanding the complexity, variability, and cultural imbeddedness of war as it occurs around the world.</td>
</tr>
<tr>
<td>ANTH 106</td>
<td>Culture and Personality of the Chicano Child</td>
<td>3</td>
<td></td>
<td>Fall, Spring</td>
<td>Study of child growth and development patterns universal to all children with focus on the pressures and effects of the Mexican and Anglo cultures on the development of the Chicano child.</td>
</tr>
<tr>
<td>ANTH 107</td>
<td>Anthropology of Hunters and Gatherers</td>
<td>3</td>
<td>ANTH 3</td>
<td>Fall, Spring</td>
<td>Survey of the rapidly disappearing life way which anthropologists call hunting and gathering, with economies based on the use of wild plant and animal resources. Using ethnographic examples from the Arctic, southern Africa, rainforests in South America, deserts of Australia, and western North America, explores variation in hunter-gatherer societies with respect to differences in environment, technology, social organization, and the historical effects of interaction with more complex cultural groups. Models that attempt to explain long-term changes in this life way are also explored.</td>
</tr>
<tr>
<td>ANTH 108</td>
<td>Economic Anthropology</td>
<td>3</td>
<td>ANTH 146 or instructor permission.</td>
<td>Fall, Spring</td>
<td>Examines the fundamentals of economic anthropology through a focus on production, exchange, and consumption in a range of historical and ethnographic contexts. Introduces different frameworks for theorizing the economy and explaining human behavior and decision-making. Addresses central questions and issues in cultural anthropology on the origins of value, wealth and social stratification, the meanings of work, gift exchange and reciprocity, property regimes, morality and debt, marketing and desire.</td>
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<tr>
<td>ANTH 109</td>
<td>Ecological and Evolutionary Approaches to Anthropology</td>
<td>3</td>
<td>ANTH 3</td>
<td>Fall, Spring</td>
<td>Survey of anthropological research regarding the relationships between human behavior, ecology, and evolution. Reviews historic development of research in this field, and contrasts approaches based in ecological and evolutionary theory. Reviews and evaluates of case studies. Topics include hunter-gatherer and hominid economy and social organization, foraging theory, work effort, population growth and regulation, origins of agriculture, warfare, ritual and resource conservation, and origins of complex society.</td>
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<tr>
<td>ANTH 110</td>
<td>Archaeological Method and Theory</td>
<td>3</td>
<td>ANTH 3</td>
<td>Fall, Spring</td>
<td>Traces the development of archaeology from its inception in the eighteenth century up to the present time. Readings, lectures, and class assignments follow the evolution of archaeological method and theory in relation to changing ideas about the role of culture, environment, and technology within the broader discipline of anthropology.</td>
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<tr>
<td>ANTH 111</td>
<td>California Archaeology</td>
<td>3</td>
<td>ANTH 3</td>
<td>Fall, Spring</td>
<td>Pre-contact California encompassed some of the most extensive environmental and cultural diversity ever to exist on the planet, containing widely divergent biota, many distinct languages and cultures, and among the densest hunter-gatherer populations ever recorded. Explores long-term trends in cultural development across the state, and examines models used to explain why semi-permanent settlements, intensive subsistence strategies, and complex social institutions arose in some times/places and not others.</td>
</tr>
<tr>
<td>ANTH 112</td>
<td>Great Basin Archaeology</td>
<td>3</td>
<td>ANTH 3</td>
<td>Fall, Spring</td>
<td>Explores the cultural and natural history of the Great Basin from the last glacial maximum into the historic era. Though largely arid, this region in fact manifests considerable environmental variability and has seen significant climatic alterations since the Pleistocene. Human occupation of the Great Basin witnessed major changes in demography, technology, subsistence practices, and sociopolitical organization over the last 10,000 years. The course looks to understand cultural and environmental variability across the region through examination of the long-term material record and consideration of anthropological and biological models.</td>
</tr>
<tr>
<td>ANTH 113</td>
<td>Prehistory of the Southwest</td>
<td>3</td>
<td>ANTH 3</td>
<td>Fall, Spring</td>
<td>Survey of the prehistory of the Arizona, New Mexico, Western Colorado, Utah, and adjacent regions of Nevada, Texas and northwestern Mexico. Major prehistoric cultures of the Southwest (Hohokam, Anasazi, Mogollon, Fremont) are covered in detail. Focus on major transitions in subsistence and social organization emphasizing current issues of archaeological research. Cultural influences from outside areas are also considered.</td>
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<tr>
<td>ANTH 114</td>
<td>North American Prehistory</td>
<td>3</td>
<td>ANTH 3</td>
<td>Fall, Spring</td>
<td>Familiarizes students with the archaeological record of North America, and provides an analytical framework through which it may be understood in anthropologically meaningful terms. This will be accomplished by considering some of the explanations that have been proposed to account for the prehistory of the continent, and by examining the archaeological remains and cultural sequences found in various areas, including the North and Southeast, Great Plains, Pacific Northwest, and arctic/subarctic regions.</td>
</tr>
</tbody>
</table>
SURVEY ON ENVIRONMENTAL ARCHAEOLOGY AND THE HUMAN PAST

ANTH 115. Origins of Agriculture. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Surveys and evaluates worldwide anthropological perspectives of the origins of agriculture and the rise of complex society. Traces the development of major archaeological theories for the inception and spread of agriculture and civilization, acquainting students with groundbreaking archaeological research associated with each theoretical perspective. Current archaeological research is reviewed in-depth, providing a context for critique of the theories. Examples from North America, Latin America, the Middle East, India and China are compared and contrasted using movies, readings, and lectures.

ANTH 116. Old World Prehistory: Paleolithic Archaeology. 3 Units
Term Typically Offered: Fall, Spring

Old World Paleolithic archaeology from the emergence of hominids until the development of agriculture and civilization. Cultural developments in Africa, Europe, and Australia are examined with the aim of highlighting similarities and differences in the process of technological, demographic, and sociopolitical change within each region. Explanatory models are offered to account for cultural evolution in various parts of the Old World are explored and assessed.

ANTH 117. World Prehistory and the Evolution of Modern Humanity. 3 Units
Prerequisite(s): Any lower-division Area B2 GE course
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Covers human prehistory, from the emergence of culture through the domestication of plants and animals, and the origins of complex societies. Included are major cultural developments on every continent, emphasizing similarities and differences in the nature and timing of key technological, cultural, and sociopolitical changes. Methodologies for learning about the past, major archaeological discoveries, important personalities, and contributions to the modern world are discussed in the context of understanding the strengths of a scientific approach to understanding the human past.

ANTH 118. The Anthropocene: Human Impacts on Ancient Environments. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Designed to challenge students to critically evaluate past human relationships with their environment at the local, regional, and global scale over the past 10,000 years. The diachronic perspective of the course provides students with a broader understanding of contemporary challenges, such as anthropogenic climate change and declining biodiversity, that is rooted in our prehistoric past.

ANTH 119. Analysis of Faunal Remains. 4 Units
Prerequisite(s): ANTH 3 and Anthropology (Archaeological and Biological Anthropology) concentration.

Seminar on techniques and methods employed in analysis of faunal remains from archaeological sites, coupled with a laboratory providing hands-on identification of mammalian remains from these settings. Large focus on quantitative methods used in zooarchaeology to infer behavioral patterns of the human past and their paleoenvironments.

ANTH 120. Introductory Statistics for Anthropologists. 3 Units
Prerequisite(s): Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall, Spring

Covers the conceptual framework involved in quantitative methods of data analysis commonly employed in anthropology. The emphasis is primarily on understanding concepts and secondarily on learning techniques of data analysis. Topics include data description and distributions, estimation procedures, hypothesis testing, and model fitting. Illustration of concepts in lecture are made with data from archaeology, physical anthropology, and social/cultural anthropology.

ANTH 121. Archaeology of Mexico. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Provides an upper division introduction to the archeology of Mesoamerica for students not majoring in anthropology. Discusses the evolution of the ancient civilizations of Mesoamerica, including Mexico, Guatemala, Belize, Honduras, and El Salvador. Examines the development of societies from the earliest inhabitants to the growth of empires. Includes coverage of the Olmecs, Monte Alban, Teotihuacan, the Classic Maya, the Toltecs, and the Aztecs.
Note: Cannot be used to meet the requirements of the Anthropology major; interested majors should take ANTH 122.

ANTH 122. The Evolution of Early Mesoamerican States. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Traces the emergence of pre-hispanic state societies in Mesoamerica from the growth of the earliest settlements to the collapse of the Aztec empire. Analyzes how complex societies evolved in Mesoamerica, focusing on such evidence as household and village social organization, craft specialization and interregional exchange, religion and ideology, and the logistics of state management and imperial expansion.

ANTH 123. Ancient Technology. 3 Units
Term Typically Offered: Fall, Spring

Examines the importance of various preindustrial technologies, and the techniques and methods involved in their manufacture and use. Topics include stone, bone, wood, and hide working, ceramics, weaving, metallurgy, and other crafts essential to human survival in ancient and contemporary societies around the world.

ANTH 124. Environmental Archaeology. 3 Units
Prerequisite(s): ANTH 3 and Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall, Spring

All human societies depend on their natural surroundings, and so the reconstruction of prehistoric environments is an essential part of archaeological interpretation. Three interrelated aspects of environmental archaeology are considered: (1) general approaches to paleoenvironmental reconstruction, employing various biological and geological indicators; (2) the analysis of human plant and animal food remains; and (3) the geological and other processes that are responsible for the formation of archaeological deposits.
ANTH 125. Historical Archaeology. 3 Units
Term Typically Offered: Fall, Spring
Written history only records a small portion of human activities that occurred in the recent past. Explores the numerous methods of investigation, analysis and interpretation that are available to aid the historical archaeologist in discovering missing information and in some cases correcting erroneous statements, assumptions and interpretations about the past.

ANTH 126. Techniques of Archaeological Analysis. 3 Units
Prerequisite(s): ANTH 3 and Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall, Spring
Introduces students to various approaches to archaeological analysis, focusing on how different classes of data are collected, classified, and interpreted to resolve research issues. Includes such topics as the handling, treatment, and analysis of flaked and ground stone tools, plant and animal food remains, and other types of archaeological materials. Lecture one hour, laboratory six hours.
Note: May be repeated once for credit.

ANTH 127. Cultural Resource Management in Theory and Practice. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring
Takes a wide-ranging look at how cultural resources are managed and preserved in California, the greater U.S., and other parts of the world. More than just a review of applicable laws and regulations, it is designed to offer a history of historic preservation, examine its role in our society, and explore the prospects for its continued presence. Practical aspects of Cultural Resource Management (CRM) are reviewed with respect to designing, budgeting, and performing archaeological surveys, site evaluation studies, and data recovery or mitigation programs.

ANTH 128. Indians of California. 3 Units
Term Typically Offered: Fall, Spring
Provides a survey of the traditional cultures of California Native American groups as they existed immediately after Western contact. Exploration of the ecological linguistic, economic, social, political, and religious diversity of California Native American groups provides a background for analysis of current anthropological theories of hunter-gatherer adaptations, subsistence intensification, political economy, cultural complexity, and California prehistory.

ANTH 129. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring
Examines the nature and forms of social justice and injustice. Addresses key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academe and social activism in achieving social justice.
Cross listed as ID 124, ENVS 124, ETHN 124, FACS 124 and SOC 124. Only one may be counted for credit.

ANTH 130. Indians of North America. 3 Units
Term Typically Offered: Fall, Spring
Provides a survey of traditional Native American societies and culture areas north of Mexico. Readings, lectures, and discussions emphasize primary ethnographic and historic data that provide the richest accounts of Amerindian cultures at the time of European contact and shortly thereafter.

ANTH 131. Europe in the Ethnographic Imagination. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring
More than a place or "continent," Europe is a social and ideological construction employed to unite diverse linguistic and cultural communities. Focuses on major themes in contemporary Europeanist anthropology, including transformations within and between local communities and regions (especially with regards to Northern Ireland, the former Society bloc, and Yugoslav federation), immigration, neo-nationalist extremism, the changing character of religious institutions, and the European Union as a framework for organizing identity and society.

ANTH 132. Health, Culture, Power: Topics in Medical Anthropology. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring
Examines the relationship between health, culture, and power, from the perspective of critical medical anthropology. Students will develop cross-cultural, historical, and ethical perspectives on health and explore the socio-cultural factors that contribute to health inequity. We will explore various health-oriented social movements to understand how injustice is embodied, as health has become a key vernacular of justice in a biopolitical era.

ANTH 133. Life of Primates. 3 Units
Prerequisite(s): Any lower-division Area B2 GE course
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer
Introduction to the biology of non-human primates-our closest living relatives with evolutionary histories that are simultaneously linked with and independent of our own, leading to a startling diversity of species and lifeways. Covers the living diversity of primates, their evolutionary origins and the relationships among living and fossil species, the social and ecological pressures selecting for anatomical/physiological and cognitive adaptations, the structures of their communities, and the existential threats faced by non-human primate species in a human-impacted world.

ANTH 134. Japanese Culture and Society. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Culture of the Japanese: traditional and modern, rural and urban, cultural and social institutions; village and urban organization; and family structure. Aspects of social change in contemporary rural and urban Japan.

ANTH 135. Indians of North America. 3 Units
Term Typically Offered: Fall, Spring
Provides a survey of traditional Native American societies and culture areas north of Mexico. Readings, lectures, and discussions emphasize primary ethnographic and historic data that provide the richest accounts of Amerindian cultures at the time of European contact and shortly thereafter.
ANTH 138. Peopling of North America. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring
Introduction to the earliest evidence of human occupation of North America. Covered topics include the origins of the indigenous populations, the timing of the initial colonization, the number of migration events, paleoenvironment reconstruction, and causes for megafaunal extinctions. A variety of evidence will be discussed in detail, including chronology, paleoenvironmental data, the material culture, modern and ancient genetics, and linguistic prehistory. Political and social dimensions of conducting research on origins of Native Americans are also reviewed.

ANTH 140. Social Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring
Cross-cultural comparisons of the structures and functions of non-literate and complex societies; the diversity of social and territorial units, their analysis and classification; and the study of social organization and control and social change in relation to kinship, marriage and family, lineage and clan, law, politics, economics and religion in diverse societies.

ANTH 141. Culture Theory. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring
Exploration of the concepts, dimensions and dynamics of culture theory, viewing culture as an adaptive, comparative, cognitive, structural and symbolic system.

ANTH 142. Political Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring
Explores political anthropology as a specialized field of anthropological inquiry. Analyzes the articulation of power, authority, and legitimacy in non-state and state based societies. Contributes to an understanding of the transforming powers of modernity and resistance to it and develops a critical appreciation of how age, status, class, ethnicity, race, gender and religious ideologies shape political order within various societies around the world.

ANTH 143. Culture and Society in Mexico. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Introduction to the cultural and social institutions of the Mexican people. The changing patterns of family, economic, political, religious, and educational systems in Mexico.

ANTH 144. Contemporary American Culture in Anthropological Perspective. 3 Units
Prerequisite(s): ANTH 146
Term Typically Offered: Fall, Spring
Anthropological analysis of contemporary American culture viewed from the perspective of both internal and external observers, with emphasis on such subjects as cultural myths and social realities, values, ideology and world view, family and cultural transmission, social institutions and structures, religious ceremonies and magical rituals, and other customs and practices that establish American culture as one of the more bizarre and exotic in the world ethnographic literature.

ANTH 145. Peoples and Cultures of Latin America. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring
Exploration of diversity of peoples and cultures in Latin America and the common experiences such as colonialism, ethnicity, and economy that shape their lives. Aspects of culture examined include: race and ethnicity, colonialism and its implications, the state and political institutions, religious systems, kinship and social organization, gender, economic processes, and issues pertaining to environment, urbanization, globalization, nationalism, and transnationalism.

ANTH 146. Ethnographic Analysis. 3 Units
Prerequisite(s): ANTH 2.
Term Typically Offered: Fall, Spring
Introduces students to current techniques, theories, and debates in ethnographic research and analysis through the use of ethnographies and related works. Critically examines the production of ethnographic knowledge in socio-cultural anthropology from historical and contemporary perspectives.

ANTH 147. Peoples of Southeast Asia. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer
Survey of the native peoples of Southeast Asia (Laos, Vietnam, Thailand, Philippines, Malaysia, Indonesia, Burma and Singapore). Emphasis is on examining the forms of social and cultural pluralism in contemporary Southeast Asian societies.

ANTH 148. Anthropology of Chinese Societies. 3 Units
Term Typically Offered: Fall, Spring
Exploration of the cultures of three Chinese societies (Taiwan, Hong Kong, and the People's Republic of China) in each of their unique historical contexts. A comparison and contrast of how these societies, though sharing a common cultural heritage, have had different paths of development in recent times. Aspects of culture examined include: the state and political institutions; religious systems; kinship and social organization; economic processes; and issues of regional integration, nationalism and transnationalism.

ANTH 149. Cultures of South Asia. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Exploration of cultural practices in different South Asian societies. Analyzes the impact of colonialism, post-colonialism and discourses of modernity on South Asian societies. Examines the process of state formation, nation-building, communal conflict, economic transformations and the politics of caste, gender and class in contemporary South Asia.

ANTH 150. Human Osteology. 4 Units
Prerequisite(s): ANTH 1 and ANTH 1A, or BIO 22; and Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall only
Provides students a hands-on, in-depth study of human osteology. Learn growth and development of the skeletal tissues and identification of the individual skeletal elements, and practice basic measurements, sexing and aging of skeletal material. A prerequisite for advanced techniques in forensic anthropology. Students will work with the department's osteological materials.
ANTH 151. Human Paleontology. 3 Units
Prerequisite(s): ANTH 1 and ANTH 1A.
Term Typically Offered: Fall, Spring
Survey of the field of human evolution from primate beginnings to modern humans. Emphasizes the interpretation of the fossil evidence and the major trends in hominid evolution, including the origins and relationships of the extinct forms of humans.

ANTH 152. Comparative Primate Morphology. 3 Units
Prerequisite(s): ANTH 1 & ANTH 1A
Term Typically Offered: Fall, Spring
Study of skeletal and soft-anatomical components of living non-human apes in the context of evolution and development. Covers evolutionary theory, embryology, growth and development, taxonomy, systematics, and basic functional morphology of the skeletal system in primates. Three-hour seminar, with some lecture and hands-on experience with skeletons and casts.
Note: BIO 1, BIO 2 or BIO 7 recommended, but not required.

ANTH 153. Evolutionary Medicine. 3 Units
Term Typically Offered: Fall, Spring
Introduction to the application of evolutionary theory to human health and disease. Evolutionary medicine is a rapidly growing interdisciplinary specialization utilizing insights from evolutionary theory and human evolutionary ecology to inform understandings of human health, development and disease; and also to critique existing biomedical theory about the human condition. Topics include reproduction, child birth, lactation, growth and development, infectious diseases, parasites, diet and nutrition, mental and behavioral disorders, and substance use and addiction.
Note: ANTH 1, BIO 10, BIO 11, or PSYC 2 recommended.

ANTH 154. Primate Behavior. 3 Units
Term Typically Offered: Fall, Spring
Provides an introduction to primate social systems and the factors that influence their maintenance and evolution, including foraging strategies, demographic processes, mating and rearing strategies, conflicts and coalitions, and communication. Discussion of the theory guiding primate behavioral research will be supplemented with readings emphasizing current research in the field, to provide an understanding of how behavioral research is conducted and the diversity of primate behavior.

ANTH 155. Fundamentals of Biological Anthropology. 3 Units
Prerequisite(s): ANTH 1 and ANTH 1A.
Term Typically Offered: Fall, Spring
Survey of the development of method and theory in physical anthropology from its origins in zoology, anatomy, and medicine, to the various approaches currently used in the study of human biology and evolution. Concepts considered include the scientific method; modern genetics, evolutionary theory, the race concept and other approaches to explaining human variation; taxonomy and systematics, and macro-evolutionary models. Critical reading and analytical skills will be emphasized.

ANTH 156. Evolution of Human Behavior. 3 Units
Prerequisite(s): ANTH 1, BIO 10, or PSYC 2 recommended.
Term Typically Offered: Fall, Spring
Introduction to the application of evolutionary theory to human behavior and psychology. Reviews and contrasts contemporary perspectives of human behavioral evolution with emphasis on insights from the emerging field of evolutionary psychology. Topics include human behavior and cognition as adaptations, "selfish genes," game theory; evolution of social behavior; evolution of altruism, human mating strategies, parenting, behavioral disorders, evolution of the life cycle, human behavioral ecology, Darwinian medicine, and evolutionary psychology.

ANTH 157. Human Variation. 3 Units
Prerequisite(s): ANTH 1, BIO 10, or instructor permission.
Term Typically Offered: Fall, Spring
Survey of the basic principles of human genetics with emphasis on the mechanisms that shape human evolution and the development of human races. Analyzes the laws of heredity as exhibited in modern human populations and human adaptability to climatic extremes. Historical development of concepts. Discussion of most current research.

ANTH 158. Human Skeletal Analysis. 4 Units
Prerequisite(s): ANTH 150. Paired Course
Term Typically Offered: Spring only
Provides advanced techniques in osteology and forensic anthropology essential for many practicing physical anthropologists. Discussion and survey of the primary literature, followed by intensive hands-on experience with human skeletal remains. Included: techniques for determining age, sex and ethnicity; measurement; pathology; and trauma. The role of the forensic anthropologist and archaeologist, ethical considerations, and human rights issues are also covered. Two-hour seminar, and a six-hour lab involving substantial hands-on experience with human skeletal remains.

ANTH 159. Forensic Anthropology. 3 Units
Prerequisite(s): Any lower-division GE Area B2 course.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
Overview of forensic anthropology - an applied field of biological anthropology that works with law enforcement, medical examiners, and human rights agencies. Forensic anthropologists answer questions of medico-legal significance by applying techniques designed for analysis of human skeletal remains. Includes determining time since death, the biological profile, trauma analysis and the role of the forensic anthropologist in human rights investigations.

ANTH 160. Linguistic Anthropology. 3 Units
Prerequisite(s): ANTH 4 or instructor permission.
Term Typically Offered: Fall, Spring
Introduction to language and linguistics for anthropologists with emphasis on the role of linguistic anthropology in the development of theory and method within the discipline; non-human communication systems, language acquisition, and culture theory; the fundamentals of descriptive and structural linguistics; types of human languages; the diversity and distribution of languages from prehistoric to modern times; fundamentals of historical linguistics and proto-cultural studies.
ANTH 161. African Cultures and Societies. 3 Units
Prerequisite(s): ANTH 146 or instructor approval
Term Typically Offered: Fall, Spring

Explores the cultural richness and regional variation of African societies. Engages students with central issues and debates pertaining to Africa in relation to the deepening global interconnectedness of the human socio-cultural worlds. Topical discussions include: colonial legacy; the postcolonial state and traditional authority; ethnic identity and cultural diversity; family, kinship and the African youth; masculinity, sexuality and women; Islam, Christianity and indigenous spirituality; health, poverty and development; migration and globalization; ecotourism and African cultures.

ANTH 162. Language and Culture. 3 Units
Prerequisite(s): ANTH 4 or instructor permission.
Term Typically Offered: Fall, Spring

Relationship between language and culture; historical relationships between languages; language families and major cultural traditions; cross-cultural studies of how the language influences perception and the organization of reality; the ways in which language is embedded in social life and practices, and the ways in which various cultural patterns and values are reflected in language.

ANTH 163. Urban Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Overview of both anthropological method and theory applied to research of urban environments and a survey of significant anthropological studies that have been conducted in these settings. Examines such topics as the urbanization process, the culture of cities, urban sub-cultures, social problems in urban areas, social networks and adaptive kinship strategies in cities, and the concentration and exercise of power, wealth and influence in urban centers.

ANTH 164. Culture Change. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Anthropological study of mechanisms and process of social and cultural change; basic theories of ecological adaptation and cultural evolution; action chains and cultural patterns; technological innovation, migration, acculturation, cultural dissonance, conflict, and cultural revitalization; analysis of case studies emphasizing contemporary conditions and problems; rapid technological innovation, population control, immigration and acculturation, social diversification, ethnic conflict.

ANTH 165. Applied Anthropology. 3 Units
Prerequisite(s): ANTH 105 or ANTH 108 or ANTH 140 or ANTH 141 or ANTH 142 or ANTH 167 or ANTH 168 or ANTH 176; and Anthropology (Culture, Language, and Society) concentration.
Term Typically Offered: Fall, Spring

Provides tools for exploring the application of an anthropological paradigm to various aspects of culture change and conflict. Content is organized into a series of critical topical areas such as modernization, economic development, human services, and urbanization.

ANTH 166. Rise of Religious Cults. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Examination of cult movements, involving comparisons of the ideals, objectives and symbolic processes common to ecstatic religious movements throughout the world – from Melanesian cargo cults to the Peoples’ Temple. Anthropological perspectives are used to examine religious cults as conscious attempts to perpetuate traditional values and social goals or to radically change the status quo; millennial movements, crisis cults, nature communes, exotic religious importations, and cult characteristics of modern secular movements.

ANTH 167. Religion and Culture. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Examines ethnographic perspectives on the character and intersections of religion, ritual, and culture. Surveys the thought of “classical” social theorists (e.g., Durkheim, Tylor, Weber, and Evans-Pritchard), and concentrates on central topics in the anthropology of religion. Including the political nature of embodiment and trance, religion and nationalism, the significance of language and performance, the gendered character of many religious phenomena, and science and religion as competing epistemologies.

ANTH 168. Folklore in Anthropological Perspective. 3 Units
Prerequisite(s): ANTH 160 or ANTH 162 or instructor permission.
Term Typically Offered: Fall, Spring

Anthropological contributions to the study of folklore; survey of oral literature and other folklore forms, such as myth, folktale, legend, proverb, riddle, and games, in their social contexts; folklore as “autobiographical ethnography,” folklore in everyday life, survey and comparison of folklore traditions in several culture areas.

ANTH 169. Research Methods in Linguistic Anthropology. 3 Units
Prerequisite(s): ANTH 160 or ANTH 162, and Anthropology (Culture, Language, and Society) concentration.
Term Typically Offered: Fall, Spring

Consideration of language in its social context: language and power, language and gender, interethnic communication, language and race, pidgins and creoles, multilingualism, standardization, language ideology. Instruction in ethnographic and linguistic methods of data collection and analysis; identification of socially significant linguistic variables. Contributions of the study of contextualized speech to linguistic theory.

ANTH 170. The Religious Landscape of the Sacramento Valley. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Introduction to the field study of religious communities. Addresses the nature of religious pluralism in the U.S. today. The practice and belief systems of at least five different religious communities will be studied each semester. Students are required to do an in-depth term project based on research in one or more religious communities. Cross Listed: HRS 170; only one may be counted for credit.
ANTH 171. Bioarchaeology: Analyzing Human Remains from Archaeology Sites. 3 Units
Prerequisite(s): ANTH 1 and ANTH 1A or instructor permission
Term Typically Offered: Fall, Spring

An exploration of research conducted on human remains from archaeological sites, including historical and ethical perspectives. Examines the effects of funerary context and preservation on skeletal remains. Demonstrates relevance of human skeletal analysis to understanding demography, causes of human skeletal variation, dietary patterns, and relevant themes in paleopathological research. Special emphasis placed on infectious disease, growth and development, activity patterns, injury and trauma, craniofacial adaptations, and methods for identifying genetic relationships in human skeletal remains.

ANTH 172. Anthropologies of Music. 3 Units
Prerequisite(s): ANTH 146 or Instructor Permission.
Term Typically Offered: Fall, Spring

Introduces students to current anthropological research on social groups and cultural practices that orient around and draw inspiration from music, wherever and however it is conceived. Course focus is not on music theory or structure; rather, it critically examines anthropological and ethnomusicological works that focus on the relations among such social domains and features as visual and aural aesthetics, political belief, gender, ritual, religion, race, and ethnicity.

ANTH 173. Anthropology of Contemporary Asia. 3 Units
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

This course examines contemporary Asia as an articulation of intersecting historical, cultural, political and economic processes. The course will focus on postcolonial developments and critically explore the manner in which process of globalization and neoliberal strategies embed themselves within, and the responses they elicit from societies across Asia.

ANTH 174. Anthropology of Food. 3 Units
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

Examines food and eating from an anthropological perspective. Demonstrates how food communicates social messages about individual or group identity, creates social boundaries or forges belonging, and can reflect one’s politics, values, and ethics. Through ethnographic examples and attention to global processes, this course explores food production, circulation, and consumption.

ANTH 175. Anthropology of Globalization. 3 Units
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

The course introduces students to major themes that inform anthropological understanding of globalization. This course will explore theoretical perspectives, topics, and methods of analysis developed in anthropology to capture the effects of intermingling global/local cultural forces and the diverse relations of power that structure them and in which they are embedded.

ANTH 176. Museums, Culture, and Society. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Provides an introduction to museum anthropology. Surveys the emergence of modern anthropology from its origins in 17th century natural history to its late 19th century institutionalization in museums. Explores the role of collectors, curators and financial patrons in the development of museums and social theory. Examines the contemporary politics of museums and curatorial work in the development of museums and curatorial work in the development of museums and social theory. Examines the contemporary politics of museums and curatorial work in the development of museums and curatorial work in the development of museums and social theory. Examines the contemporary politics of museums and curatorial work in the development of museums and curatorial work in the development of museums and social theory. Examines the contemporary politics of museums and curatorial work in the development of museums and curatorial work in the development of museums and social theory. Examines the contemporary politics of museums and curatorial work in the development of museums and curatorial work in the development of museums and social theory. Examines the contemporary politics of museums and curatorial work in the development of museums and curatorial work in the development of museums and curatorial work in the development of museums and curatorial work in the development of museums and curatorial work in the development of museums and curatorial work in the development of museums and curatorial work in the development of museums and curatorial work in the development of museums. Examines multiple dimensions of human rights from an anthropological perspective. Explores the history and development of human rights ideas and legal conventions, and how these ideas and conventions are appropriated, adapted, contested or rejected in different cultural and political contexts. Using ethnographic case studies from around the world, addresses how the human rights discourse mediates the relationship between specific groups of people, their national states and international conventions and institutions.
ANTH 183. Women Cross-Culturally. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Position of women in various societies, preliteracy through contemporary industrial; the evolution of women’s roles and rights cross-culturally.

ANTH 186. Culture and Poverty. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring

Analyzes poverty in American society: the cross-cultural context, social inequality in the U.S., theoretical perspectives and their influence on policy, present trends and implications for the future.

ANTH 187. Health Research in Biological Anthropology. 3 Units
Prerequisite(s): ANTH 1 and instructor permission.
Term Typically Offered: Spring only – even years

A laboratory-based introduction to health research methods in biological anthropology, with an emphasis on biological and behavioral health indicators in populations of living humans. The course will introduce students to health research design, measurement methods, and analysis. Lab topics will include biomarkers, survey methods, qualitative approaches, anatomical measurement, energetics and diet, vital statistics, and the use of behavioral health research instruments.

ANTH 188. Anthropology of the Body. 3 Units
Term Typically Offered: Fall, Spring

Study of the diverse ways that humans explain and attempt to alter the human body. Focus is on the meanings and implications of our own bodily experiences through objective comparison of the experiences, explanations and techniques found in our society with those in others.

ANTH 189. Critical Medical Anthropology. 3 Units
Prerequisite(s): ANTH 146
Term Typically Offered: Fall, Spring

Critical Medical Anthropology examines the interplay of cultural, environmental, and biological processes in diverse experiences of health and illness. Students will develop an understanding of the history of Medical Anthropology, its key themes and theoretical perspectives, and its present concerns. We will consider biomedicine as a cultural sphere, track the persistence of ‘alternative’ healing practices and the impact of social determinants on health, and analyze the formation of new demands on states and subjects in the name of suffering.

ANTH 190. Advanced Topics in Linguistic Anthropology. 3 Units
Prerequisite(s): ANTH 160 or ANTH 162 or instructor permission.
Term Typically Offered: Fall, Spring

Seminar examining contemporary developments in theories and methods of linguistic anthropology.
Note: May be repeated for credit providing the topic and instructor are not the same.

ANTH 191. Anthropology Practicum. 3 Units
Prerequisite(s): ANTH 165 or ANTH 169 or ANTH 177 or ANTH 192B; and senior level
Term Typically Offered: Fall, Spring

Students work 3-6 hours per week off campus in one of several research institutions under the supervision of institutional personnel. Students are required to become familiar with the scholarly literature relevant to their placement, to participate in on-campus meetings, and to write a research paper integrating the research and fieldwork aspects of the practicum. Permission of instructor and ANTH coordinator required prior to registration. Open to seniors only.

ANTH 192A. Laboratory Work in Archaeology. 1 Unit
Prerequisite(s): ANTH 3
Corequisite(s): ANTH 195A; may be waived with instructor permission.
Term Typically Offered: Fall, Spring

Introduces methods used in the basic laboratory preservation, cataloging, and initial analysis of various materials recovered through ANTH 195A survey and excavation projects; always offered in conjunction with ANTH 195A.
Note: May be repeated for credit.

ANTH 192B. Laboratory in Ethnographic Techniques. 1 Unit
Prerequisite(s): ANTH 105 or ANTH 108 or ANTH 140 or ANTH 141 or ANTH 142 or ANTH 167 or ANTH 168 or ANTH 176, and Anthropology (Culture, Language, and Society) concentration.
Corequisite(s): ANTH 195B.
Term Typically Offered: Fall, Spring

Design and discussion of research strategies, primary ethnographic techniques, the development of interviewing skills, and practice in the use of various recording technologies.

ANTH 195A. Fieldwork in Archaeology. 2 Units
Prerequisite(s): ANTH 3
Corequisite(s): ANTH 192B
Term Typically Offered: Fall, Spring

Introduction to archaeological field methods, covering practical aspects of how to identify and investigate isolated artifact finds, particular sites and features, and entire landscapes. Covering survey and excavation techniques, basic approaches to sampling, mapping and navigation, stratigraphic excavation, artifact and feature recording, and recovery methods.
Note: May be repeated for credit.

ANTH 195B. Fieldwork in Ethnology. 2 Units
Prerequisite(s): ANTH 105 or ANTH 108 or ANTH 140 or ANTH 141 or ANTH 142 or ANTH 167 or ANTH 168 or ANTH 176, and Anthropology (Culture, Language, and Society) concentration.
Corequisite(s): ANTH 192B
Term Typically Offered: Fall, Spring

Directed team fieldwork in ethnology.

ANTH 195C. Fieldwork in Physical Anthropology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Individual or group fieldwork in various areas of physical anthropology, under the supervision of individual faculty members; may involve related supervised laboratory work.
ANTH 196S. Senior Seminar in Anthropology.  3 Units
Prerequisite(s): Anthropology majors with senior standing
Term Typically Offered: Fall, Spring

Anthropology approaches knowledge about the human condition from multidisciplinary perspectives. This senior seminar synthesizes fundamental themes from among the sub-disciplines. Students will engage with concepts and issues from different anthropological perspectives, and then work to identify common historical, methodological and theoretical anthropological themes. On completion of the course, students will have learned to seek and interpret anthropological knowledge in a holistic fashion.

ANTH 196T. Zooarchaeology.  3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

An examination of past and recent research conducted on animal remains from archaeological sites. Discussion and survey of the primary literature in evaluating the role animal exploitation plays in human evolution and among small scale foraging, pastoralist, and complex societies. Emphasis on vertebrate taphonomy, reconstruction of diet from faunal remains, and ecological and evolutionary theory to understand human-animal relationships through time.

ANTH 196Z. Language, Digital Literacies, & the Self.  3 Units
Prerequisite(s): ANTH 4
Term Typically Offered: Fall, Spring

Explores ethnographic approaches to digitally-mediated language and the self, examining how social actors acquire the digital skills and communicative norms that make up “digital literacies” across cultural contexts and media ecologies. Topics include linguistic interaction in virtual worlds, media ideologies, technological constraints on digitally-mediated conversation, the role of language in the maintenance of digital communities and protest movements, new forms of meaning-making and affect enabled by the acquisition of digital literacies, and digital research methods.

ANTH 199. Special Problems.  1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the individual work is to be conducted and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work. May be repeated for credit.
Credit/No Credit

ANTH 200. General Methods in Anthropology.  3 Units
Term Typically Offered: Fall, Spring

Explores uses of scientific methodology in anthropology through the examination of specific case studies in the various specialties. Focus is on the relationship among techniques, methods, and methodology; hypothesis and theory; units of analysis and comparison; deductive and inductive reasoning; inferential processes; various types of comparison (casual, controlled, hogeistic); limitations of, and objections to, “the comparative method.”

ANTH 201. Anthropological Theory.  3 Units
Prerequisite(s): Graduate status in anthropology or instructor permission.
Term Typically Offered: Fall, Spring

Intensive reading and seminar discussion in topics on anthropological theory and research.
Note: May be repeated for credit provided topic is not repeated.

ANTH 202. Biological Anthropology Seminar.  3 Units
Term Typically Offered: Fall, Spring

Survey of contemporary issues in physical anthropology.

ANTH 203. Archaeology.  3 Units
Term Typically Offered: Fall, Spring

Explores the intellectual development of archaeological method and theory; examines the history of archaeological thought from its advent to the present day, looking in detail at pre-scientific, culture-historical, processual, and post-processual approaches to the discipline; emphasis is placed on the role of archaeology as a branch of anthropology and as a historical, humanistic, and/or scientific enterprise.

ANTH 204. Current Problems in Archaeological Method and Theory.  3 Units
Term Typically Offered: Fall, Spring

Explores recent methodological and theoretical developments within archaeology; focus is on contemporary debates within the discipline; topical coverage varies; examines conceptual and practical concerns, highlighting possibilities and limitations of new approaches to archaeological problems.
Note: May be repeated for credit provided topic and instructor are not repeated.

ANTH 205. Ethnology.  3 Units
Term Typically Offered: Fall, Spring

Seminar is designed for students to develop a working knowledge of anthropological approaches to a number of major issues in ethnology. The focus is on the analysis of case studies.
Note: May be repeated once for credit with different instructor.

ANTH 207. Language and Culture.  3 Units
Term Typically Offered: Fall, Spring

Critical examination of contemporary studies in the relationship between language and culture; nonhuman primate communication and the origin of speech; non-verbal communication; historical linguistics; comparative semiotics; ethnosemantics; applications of linguistic models of analysis in the study of culture.
Note: May be repeated for credit given that the instructor changes.
ANTH 211. Communicating Anthropology Graduate Colloquium. 1 Unit
Prerequisite(s): Graduate status in anthropology.
Term Typically Offered: Fall, Spring
Seminar for graduate students to develop oral and written communication skills within the discipline, to discuss current topics in the four fields of anthropology, and to introduce students to professional standards in the discipline. Specific topics covered in presentations and workshops will vary each semester.
Note: May be repeated for credit; no more than 3 units may count towards degree.

ANTH 219. Analysis of Faunal Remains. 4 Units
Prerequisite(s): Graduate status in Anthropology or instructor permission.
Term Typically Offered: Fall only – even years
Seminar on techniques and methods employed in analysis of faunal remains from archaeological sites, coupled with a laboratory providing hands-on identification of mammalian remains from these settings. Large focus on quantitative methods used in zooarchaeology to infer behavioral patterns of the human past and their paleoenvironments.

ANTH 222. Bioarchaeology Seminar. 3 Units
Prerequisite(s): Graduate status in anthropology.
Term Typically Offered: Fall, Spring
Provides an intensive, detailed discussion of method and theory in the skeletal biology of past human populations. Topics discussed include: demography, dietary analysis, mortuary dimensions, health and disease, biological distance and DNA analysis. Focuses on the interaction of biology and behavior, particularly the influence of culture and the environment on the skeletal and dental tissues.

ANTH 223. Areal Archaeology. 3 Units
Term Typically Offered: Fall, Spring
Provides an intensive examination of archaeological problems within a selected regional or topical area. Through general readings and case studies, students will critically assess how current perspectives regarding relevant issues have evolved and determine how contemporary viewpoints might be improved or expanded.
Note: May be repeated for credit provided topic and instructor are not repeated.

ANTH 226. Advanced Techniques of Archaeological Analysis. 3 Units
Prerequisite(s): ANTH 126 or instructor permission.
Term Typically Offered: Fall, Spring
Examines more refined approaches to archaeological analysis, focusing on how various classes of data are collected, classified, and interpreted to resolve directed research problems. Emphasis is on such topics as sampling procedures and statistical assessment of data rather than descriptive analysis and interpretation. Lecture one hour; laboratory six hours.

ANTH 251. Human Paleontology. 3 Units
Survey of the field of human evolution from primate beginnings to modern humans. Emphasizes the interpretation of the fossil evidence and the major trends in hominid evolution, including the origins and the relationships of the extinct forms of humans.

ANTH 254. Primate Behavioral Ecology. 3 Units
Prerequisite(s): Graduate status in Anthropology or instructor permission.
Term Typically Offered: Fall, Spring
Provides an intensive, detailed discussion of theoretical models and empirical studies of the behavior of non-human primates. Topics discussed include: grouping patterns, mating strategies, dominance, cooperation, and the adaptive values of social bonds. Focuses on the interaction of ecology and social behavior, particularly the influence of behavioral strategies that enhance reproductive success, and corresponding emergent group-level properties.

ANTH 258. Human Skeletal Analysis. 4 Units
Prerequisite(s): ANTH 150 or instructor permission. Paired course
Term Typically Offered: Spring only
Provides advanced techniques in osteology and forensic anthropology essential for many practicing physical anthropologists. Discussion and survey of the primary literature, followed by intensive hands-on experience with human skeletal remains. Included: techniques for determining age, sex and ancestry; measurement; pathology; and trauma. The role of the forensic anthropologist and archaeologist, ethical considerations, and human rights issues are also covered. Course format is a two-hour seminar, and a six-hour lab involving substantial hands-on experience with human skeletal remains.

ANTH 274. Environmental Anthropology. 3 Units
Term Typically Offered: Fall, Spring
Examines the mutual constitution of nature-culture, society-environment in diverse ethnographic settings. Demonstrates that ideas about nature and material engagements with it are shaped by the dynamics of social, political, and economic relations in historical contexts. Surveys a range of environmental issues and the cultural politics of environmental struggles through different conceptual, theoretical, analytical approaches in cultural anthropology.

ANTH 276. Museum Anthropology. 3 Units
Prerequisite(s): Graduate status in Anthropology or instructor permission.
Term Typically Offered: Fall, Spring
Surveys the practical, theoretical, and historical dimensions of museum anthropology and material culture studies, with particular emphasis on the U.S. and California. Situates contemporary issues related to the collection, exhibition, and repatriation of ethnographic and archaeological materials within the sociopolitical context of the globally based indigenous rights movement.
Note: Recommended for graduate students who plan to intern in the Anthropology Museum.

ANTH 278. Internship. 3 - 4 Units
Term Typically Offered: Fall, Spring
Practical graduate level experience in an approved professional environment. Student intern will work directly with professionals in public and private agencies where opportunities exist for anthropological work. Supervision and evaluation are provided by a faculty internship director and the on-site supervisor. Placements require from 15-20 hours per week.
Note: May be repeated for credit given that topic and instructor changes.
Credit/No Credit
ANTH 292A. Laboratory Work in Archaeology. 1 Unit
Prerequisite(s): ANTH 192A.
Corequisite(s): ANTH 295A.
Term Typically Offered: Fall, Spring

Laboratory preservation, cataloging and initial analysis of materials recovered through archaeological fieldwork. Graduate students are expected to help supervise undergraduate students and complete a self-directed project under the supervision of the instructor.
Note: Participant must have already completed ANTH 192A or its equivalent. May be repeated once for credit.

ANTH 295A. Fieldwork in Archaeology. 2 Units
Prerequisite(s): ANTH 195A or equivalent.
Corequisite(s): ANTH 292A.
Term Typically Offered: Fall, Spring

Students will assist the instructor in supervising undergraduate students or complete an assigned project in addition to the required fieldwork.
Note: May be repeated given that the topic and instructor changes.

ANTH 295B. Fieldwork in Ethnology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Supervised graduate level fieldwork in ethnology and ethnography.

ANTH 295C. Fieldwork in Physical Anthropology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Supervised graduate level fieldwork in physical anthropology. May include laboratory research.

ANTH 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of faculty member under whom individual work is to be conducted and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work at the graduate level; May be repeated given that topic and instructor changes; May be taken twice in the same semester.
Credit/No Credit

ANTH 500. Master’s Thesis. 3 Units
Prerequisite(s): Advanced to Candidacy, successful completion of thesis research proposal, and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the master's degree. Number of units of credit is determined by the candidate's Master's degree advisory committee. Should be taken in final semester prior to the completion of all requirements for the degree.

Arabic (ARBC)

ARBC 1A. Elementary Arabic. 4 Units
Term Typically Offered: Fall, Spring

Introduction to standard Arabic, including Arabic letters and sounds, the essentials of Arabic grammar, and basic instruction in all four language skills: speaking, reading, listening and writing. In addition to getting a start in modern Arabic, students will also learn about social aspects of the use of Arabic.

ARBC 1B. Elementary Arabic. 4 Units
Prerequisite(s): ARBC 1A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of ARBC 1A.

ARBC 2A. Intermediate Arabic. 4 Units
Prerequisite(s): ARBC 1B or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of ARBC 1B with an ongoing emphasis on communication skills and the rudiments of literacy, as well as continued integration of cultural and social components with the language learning experience.

ARBC 2B. Intermediate Arabic Conversation 2. 4 Units
Prerequisite(s): ARBC 2A or instructor permission.
Term Typically Offered: Fall, Spring

Continuation of ARBC 2A intermediate conversation with an ongoing emphasis on communication skills and the rudiments of literacy, as well as continued integration of cultural and social components with the language learning experience.

Arts (ART)

ART 1A. Art, Religions, and Power before 1400. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

An introduction to art and visual culture from across the ancient world, including Africa, the Americas, Asia, and Europe. Students will analyze and compare art from a variety of cultures, exploring themes such as Gender, Race, and The Body, Sacred Art/Sacred Space, and Art and Power.

ART 1B. Art, Empires, and Cross-Cultural Exchange, 1400-1800. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

An introduction to art and visual culture created from 1400 to 1800 across the globe, including Africa, Asia, the Americas, and Europe. Emphasis will be placed on the role of cross-cultural exchange in the visual and material culture of the early modern world. Students will analyze and compare art from a variety of cultures, exploring themes such as War/Conquest, Art, Religion, Reform, and Conversion, The Art of Empire: Rise and Fall, and Revolution! Upheaving Social Order in the Atlantic World."
ART 1C. Global Modern and Contemporary Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A 3-unit lecture based survey of the history of world art from the late 18th century to the present, from the European Rococo, Enlightenment, age of science and revolution, through Neo-Classicism, Romanticism and the rise of the international avant-garde, Realism, Impression, Symbolism, photography and film. In the 20th century, Fauvism, Cubism, the Bauhaus, Expressionism, Pop, Minimal art, Postmodernism, conceptualism, performance, video and new media are considered from global perspectives and artistic production. Part of the art history foundation sequence.

Note: Recommended for freshman or sophomore years; It is also recommended that ART 1A and/or ART 1B be taken before ART 1C.

ART 2. History of Islamic Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Introduces students to the art and architecture of major Islamic cultures and offers a background in the religion and philosophy of Islam. Works of art from Muslim countries and regions are studied in comparison to those of other major Asian and European cultures. Lecture. 3 units

ART 3A. Traditional Asian Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Introduces students to the art and architecture of Asia from the pre-historic through pre-modern periods (approximately 1600). The styles, subjects, and significance of the art of India, Sri Lanka, Indonesia, Thailand, Burma, Cambodia, Tibet, China, Japan and Korea will be presented in a broad context including the history, geography, ethnic populations, languages, and religions of these countries (i.e., Buddhism, Hinduism, Jainism, Islam, Daoism, and Shinto).

ART 3B. Modern and Contemporary Asian Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Covers the art and architecture of Asia from the modern period to the present day. Attention will be given to the impact of outside influences upon the development of art in several Asian countries, including India, Thailand, Vietnam, Indonesia, Philippines, China, Korea, and Japan. Contacts between those countries, their exposure to western visual culture through new or increased contact with the west, and the spread of Christianity all had an impact on Asian art during the period under consideration.

ART 4. European Visual Traditions. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

An introduction to European art and visual culture created from ca. 800 to 1800, from the age of Charlemagne to the French Revolution and the reign of Napoleon. This course will cover painting, architecture, sculpture, and the decorative arts and will analyze creative work in the context of religious, political, and social change.

ART 5. Art of the Americas. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

An introduction to art and visual culture from across the Americas, from ancient civilizations to the present, with an emphasis on indigenous cultural production. Students will analyze and compare creative work from a variety of cultures and time periods, exploring themes such as "Expressing Identities," "Humans in the Natural World," "Death, the Afterlife, and Living on," and "Colonization and Resistance."

ART 7. Introduction to Art and Visual Culture. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

For the general education student who wants to explore the world of art and visual culture. A wide range of multicultural, historical, and contemporary art works, art media, art history, art ideas, and art practices are presented through illustrated lectures, discussions, field trips, guest lectures, studio visits, and beginning-level art projects. Field trip(s) may be required.

ART 20A. Beginning Drawing. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring, Summer

Introduction to various techniques of and approaches to drawing, using still lifes, landscapes, and figures.

Note: fee course.

Fee course.

ART 20B. Intermediate Drawing. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring

Extension of drawing experiences initiated in ART 20A, with emphasis on surveying materials and concepts pertinent to contemporary and historical drawing.

Note: fee course.

Fee course.

ART 22. Beginning Painting. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring

Introduction to the methods and problems of painting in oil or acrylic medium.

Note: May be taken twice for credit. Fee course.

Fee course.

ART 24. Beginning Watercolor. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Not offered

Introduction to both transparent and opaque watercolor.

Note: May be taken twice for credit. Fee course.

Fee course.
ART 27.  Beginning Color.  3 Units
Term Typically Offered: Fall, Spring

Investigation of the interactions of color based on the laws of perception, color composition, space, and design. An empirical study of the phenomena of color as developed by Josef Albers and Johannes Itten, and the use of color as a visual experience with acrylic paints.

ART 40.  Beginning Printmaking.  3 Units
Prerequisite(s): ART 20A or ART 60
Term Typically Offered: Fall, Spring

Introduction to printmaking processes, their history, and their contemporary applications. Students will learn a combination of basic relief, intaglio, lithography, monotype, and/or screen print techniques, along with their historical and contemporary context.
Note: Fee course. This course will carry a fee of $75 to cover ink, plates, and other supplies.

ART 40A.  Basic Printmaking: Etching.  3 Units
Term Typically Offered: Fall, Spring

Introduction to intaglio techniques, including etching, drypoint, and aquatint. Fee course.

ART 40B.  Basic Printmaking: Relief.  3 Units
Term Typically Offered: Fall, Spring

Introduction to wood and linoleum cutting and printing. Fee course.

ART 40E.  Basic Printmaking: Silkscreen.  3 Units
Term Typically Offered: Fall, Spring

Introduction to silkscreen processes and printing. Includes the construction of the equipment necessary to print direct drawing materials, and photo-established imagery. Fee course.

ART 50.  Beginning Ceramics.  3 Units
Term Typically Offered: Fall, Spring

Projects in basic techniques and approaches to the potter’s wheel. Fee course.
Note: May be taken twice for credit.

ART 53.  Beginning Hand-Built Ceramics.  3 Units
Term Typically Offered: Fall, Spring

Basic techniques and approaches to pottery through practice in hand-building methods, including coil, slab, pinch, and combinations thereof. Fee course.
Note: May be taken twice for credit.

ART 60.  Two-Dimensional Composition.  3 Units
Term Typically Offered: Fall, Spring

Structured exploration of principles used to organize two-dimensional images. Basic art elements and their properties are explored in a series of progressive projects.
Note: Recommended for freshman or sophomore years.

ART 70.  Form, Space Vision.  3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Foundation in three-dimensional design primarily concerned with the visual dialogue between form and space. A heightened visual sensitivity for three-dimensional composition is a major objective of every project. Line, plane, and volume are utilized separately and in concert to construct three-dimensional forms. A variety of materials are employed in the activation of form and space: wire, cardboard, clay, wood, and plaster. Fee course.
Note: Recommended for freshman or sophomore years.

ART 74.  Beginning Jewelry.  3 Units
Term Typically Offered: Fall, Spring

Introduction to techniques and tools used in the design and fabrication of jewelry, such as lost wax casting, stone setting, and finishing processes. Emphasis is on compositional arrangement and finish. Fee course.

ART 75.  Beginning Metalsmithing.  3 Units
Term Typically Offered: Fall, Spring

Introduction to techniques and tools used in the fabrication of ferrous and non-ferrous metal, such as piercing, riveting, soldering, forging, and finishing processes. Emphasis is on composition and imagery. Fee course.

ART 80.  Materials Methods.  3 Units
Term Typically Offered: Fall, Spring

Develops students’ awareness of traditional and contemporary techniques used as the basis for fine and applied art. Devoted to materials and their methods of application, with most materials introduced via their traditional antecedents (for example, hide glue before modern epoxies). May be team taught. Lecture one hour; laboratory four hours. Fee course.
Note: Sophomore status and above recommended.

ART 84.  Clay Sculpture.  3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Includes work with the various forms of hand-built sculpture in both low- and high-fire clay. Glazes are used sparingly to stress forms and their relationships. Fee course.

ART 88.  Beginning Sculpture.  3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Introduction to traditional and non-traditional processes of sculpture and three-dimensional forms in space. Students can expect to use the following materials: cardboard, clay, metals, plastic, plastics, wire and wood to explore the making of three-dimensional imagery. Investigations will include the formulation of ideas relative to sculptural problem solving while discovering historical and contemporary examples of sculpture. Fee course.
ART 97. Beginning Electronic Art. 3 Units
Term Typically Offered: Fall, Spring
Explores the creative potential of imaging software used by visual artists. Familiarity with software, hardware and output devices will be established. The creation of digital art will be considered within the framework of current ideas in art and culture. No previous computer experience is necessary. Fee course. Fee course.

ART 100. Origins of American Indian Art. 3 Units
Term Typically Offered: Fall only
Survey of 19th and 20th century American Indian art. Emphasis is on the student's involvement with Indian art and includes discussion of Indian philosophy and art techniques.

ART 101. Photography, Inception to Mid-Century. 3 Units
Term Typically Offered: Fall only
Introduces students to the history of photography, from inception to Mid-20th Century. Practices of photographers and artists, working with photographic technologies, will be discussed. The course examines photographic vision and the impact of the medium through lectures and readings by art historians and photographers. Cross-listed: PHOT 101.

ART 102. Themes in World Art and Visual Culture. 3 Units
Prerequisite(s): GWAR certification before Fall 2009; or WPJ score of 80 or above; or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL 109X; or WPJ score 70/71 + co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
A thematic exploration of world art and visual culture throughout human history. Throughout this course, students will be able to draw connections between works of art created in various time periods and from a diverse variety of cultural contexts.

ART 103. Art of the Ancient Mediterranean. 3 Units
Prerequisite(s): ART 1A
Term Typically Offered: Fall only
Architecture, crafts, and sculpture in the ancient Mediterranean world from ca. 700 BCE to ca. 500 CE.

ART 105. Medieval Art. 3 Units
Prerequisite(s): ART 1A or equivalent.
Term Typically Offered: Spring only
Architecture, crafts, painting, and sculpture of medieval Western Europe.

ART 106. Renaissance Art. 3 Units
Prerequisite(s): ART 1A or ART 1B, or equivalent.
Term Typically Offered: Fall only – even years
Architecture, painting, graphic arts, sculpture, and crafts principally of the 15th and 16th centuries. Emphasis is on the art of Europe in the historical context of an emerging global consciousness.

ART 107. Baroque and Rococo Art. 3 Units
Prerequisite(s): ART 1B or equivalent.
Term Typically Offered: Spring only – odd years
European architecture, painting, and sculpture of the 17th and 18th centuries.

ART 108. 19th Century Art. 3 Units
Prerequisite(s): ART 1C or equivalent.
Term Typically Offered: Fall, Spring
European architecture, painting, and sculpture of the 19th century.

ART 109. Modern Art. 3 Units
Prerequisite(s): Upper-division standing and ART 1C or equivalent with instructor approval.
Term Typically Offered: Fall only
Presented as the cultural episode that began with the emergence of the avant-garde in mid-nineteenth century Paris and ended in the middle of the twentieth century with WW II and the beginning of the postmodern era: from Realism, the birth of photography, and Impressionism through the high modernist movements associated with the international School of Paris, including Fauvism, Cubism, Constructivism, Dada, and Surrealism. It concludes with post-WW II expressions, including Abstract Expressionism.

ART 110. US and Caribbean Art: Race and Representation. 3 Units
Prerequisite(s): Any lower-division GE course in art history (ART 1A, 1B, 1C, 2, 3A, 3B, 4, 5, or 7).
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Spring only
Provides an overview of U.S. and Caribbean art from the colonial period to the present, with an emphasis on the role of race in constructing individual, community, and national visual identities. Considers artworks by African-American, Asian-American, Indigenous, Latinx, and White artists, underscoring the dynamic interactions between race, class, gender, and sexuality in the visual arts. Field trip. Field trip(s) may be required.

ART 111. Latin American and Latino Art History. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only
Provides an overview of Latin American and Latino art from the independence movements of the 1820s to the present. After an introductory survey of pre-Columbian and Spanish colonial art, the art of Mexico, Central and South America, the Caribbean and the U.S. is studied within the contexts of contemporaneous cultural, intellectual, political and social history. The diverse visual cultures of Latin American and Latino art are thematically unified by an examination of common concerns and motivations.

ART 112. Contemporary Art. 3 Units
Prerequisite(s): ART 1C or ART 109 or instructor permission.
Term Typically Offered: Spring only
Beginning with international Pop art and Minimalism in the 1960s, surveys the history of contemporary art from the end of avant-garde modernism to the postmodernism and globalism of today. Lectures, discussions, readings and assignments offer insights into the contexts, attitudes, and ideas behind current art and visual culture. Note: Taught in conjunction with ART 212.
ART 113B. Asian Art and Mythology. 3 Units
Prerequisite(s): ART 3A or equivalent or instructor permission.
Term Typically Offered: Spring only – odd years
Survey and investigation of selected myths from Asian cultures and traditions.

ART 114. Topics in Early Modern Art. 3 Units
Prerequisite(s): ART 1A or ART 1B; an upper division art history course in a related subject area; upper division or post-baccalaureate status; and GWAR certification before Fall 2009; or WPJ score of 80 or above; or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL 109X; or WPJ score 70/71 + co-enrollment in ENGL 109X.
Term Typically Offered: Fall only – even years
Seminar on topics in early modern art history.
Note: Course may be taken twice for credit, if the topic is not the same.

ART 115. Topics in Asian Art. 3 Units
Prerequisite(s): Upper division or graduate status; completion of ART 3A (or equivalent); and an upper division Asian art history course such as ART 117A, ART 117B, ART 113B, or instructor permission; GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109M/W.
Term Typically Offered: Fall only
Seminar on topics in Asian art.

ART 116. Topics in Modern and Contemporary Art. 3 Units
Prerequisite(s): Upper division or graduate status; completion of ART 1C (or equivalent); and an upper division art history course in a related subject area (or instructor permission); GWAR certification before Fall 09, WPJ score of 70+, or at least a "C+" in ENGL 109M/W.
Term Typically Offered: Fall only
Seminar on topics in modern and contemporary art history.

ART 117A. Art of India and Southeast Asia. 3 Units
Prerequisite(s): ART 3A or equivalent, or instructor permission.
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only
Provides a broad overview of the architectural remains and visual arts of India and Southeast Asia from prehistory to the present. Consideration will be given to the art styles, iconography, history, geography, ethnic populations, languages, and religions (i.e., Buddhism, Hinduism, Jainism, and Islam) of each region.

ART 117B. Art of China and Japan. 3 Units
Prerequisite(s): ART 3A or equivalent, or instructor permission.
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only
Provides a broad overview of the architectural remains and visual arts of China and Japan from prehistory to the present. Consideration will be given to the art styles, iconography, history, geography, ethnic populations, languages, and religions (i.e., Buddhism, Taoism, and Shintoism) of each region.

ART 117C. Art of Korea. 3 Units
Term Typically Offered: Spring only – even years
Introduces students to the art and architecture of Korea from the pre-historic through contemporary periods. The styles, subjects, and significance of the art of Korea will be presented in a broad context including the history, geography, ethnic populations, languages, and religions of Korea (i.e., Buddhism, Daoism, Confucianism, and Christianity).

ART 118A. Modern Architecture. 3 Units
Prerequisite(s): ART 1C (or equivalent), or instructor permission.
Term Typically Offered: Not offered
A survey of modern architecture which covers the architectural theories and principles underlying certain significant structures. Special consideration is given to an analysis of the works of 20th century pioneers and their followers, such as Wright, Gropius, Le Corbusier, Van der Rohe, Aalto, and Johnson, among others, and to certain movements, such as the International Style, Brutalism, and Formalism.

ART 118B. California Architecture and Urban History. 3 Units
Term Typically Offered: Fall, Spring
Survey of the history of California architecture and its impact on the urban environment from Native Americans to the 20th century. Particular attention will be given to architecture as a symbol or statement of social, economic, and political empowerment. Cross listed as HIST 184; only one may be counted for credit.

ART 118C. Public Art in the Americas. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only – odd years
Explores the major issues in the history of public art in the Americas, including monuments, memorials, murals, graffiti, and new media art. Particular attention will be given to public art in Sacramento. Field Trip. Field trip(s) may be required.

ART 119. Directed Research in Art History. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring
Open to upper division art majors or minors only who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 120. Advanced Drawing. 3 Units
Prerequisite(s): ART 20B or equivalent.
Term Typically Offered: Fall, Spring
Continuing investigation of drawing. Emphasis is on the development of individual style.
Note: May be taken twice for credit.
ART 121.  BFA Junior Studio.
Term Typically Offered: Fall, Spring

Junior-level studio art course designed to prepare students for the senior year of the BFA degree. Course builds dialog among an interdisciplinary cohort of BFA students while engaging them with contemporary professional practices in the arts. Emphasis placed on students’ ability to communicate about their work through critiques with faculty, peers, and visiting artists, preparation of professional documents and presentations. Fee course. Prerequisite: Completion of a minimum of 3 units upper division studio coursework, second semester Junior standing with 75 units minimum.

Fee course.

ART 122A.  Intermediate Painting.
Prerequisite(s): ART 22 or equivalent.
Term Typically Offered: Fall, Spring

Continuing investigation of the technical and conceptual issues of painting.
Note: May be taken twice for credit.

ART 122B.  Advanced Painting.
Prerequisite(s): ART 122A, or ART 124A, or ART 125A, or ART 126, or instructor permission.
Term Typically Offered: Fall, Spring

Continuing investigation of the technical and conceptual issues of painting, with an emphasis on intensive individual exploration.
Note: May be repeated four times for credit.

ART 122C.  Advanced Painting and Drawing, Experimental Studies.
Term Typically Offered: Spring only

Following students work in Art 122B Advanced Painting, or Art 120 Advanced Drawing, this course will focus on investigation of experimental methods. Students will put into practice a range of experimental methods to the purpose of discovering new approaches to their medium, and new avenues for the articulation of content. Work will focus on a medium and subject matter of the student’s choice. Pre-requisite: Art 120, Advanced Drawing; or Art 122B, Advanced Painting; or permission of the instructor.

ART 123.  Figure Drawing.
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring

Concentrates on the development of drawing and visual skills with emphasis on the human figure. Strong emphasis is placed on anatomical knowledge of the body and its expression through drawing techniques. The effects of volume and movement in space as well as compositional possibilities with the figure are explored. Slides are used to inform students of the drawing techniques achieved in historic and contemporary images. Fee course.
Note: May be taken for credit three times.

Fee course.

ART 124A.  Intermediate Watercolor.
Prerequisite(s): ART 24 or equivalent.
Term Typically Offered: Spring only – odd years

Continuing investigation of the technical and conceptual issues of painting, using transparent water media.
Note: May be taken twice for credit.

ART 124B.  Advanced Watercolor.
Prerequisite(s): ART 124A or equivalent.
Term Typically Offered: Fall, Spring

Continuing investigation of the techniques and conceptual issues of painting using transparent water media, with emphasis on intensive individual exploration.
Note: May be taken four times for credit.

ART 125A.  Life Painting.
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall only

Painting from professional models.
Note: May be taken for credit twice. Fee course.

Fee course.

ART 125B.  Life Studio.
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring

Drawing and painting from professional models. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 126.  Painting and Drawing in the Field.
Prerequisite(s): ART 22 or ART 24, or equivalent.
Term Typically Offered: Fall, Spring

Further development of painting and drawing skills with emphasis on direct observation and use of color to make form. Class will meet at specific landscape sites to work, with primary focus on painting. In addition, work will be developed in the classroom based on prior field study. Critiques will examine how one situation is variously interpreted.

ART 127.  Collage and Assemblage.
Prerequisite(s): ART 20A, ART 22 and either ART 70 or ART 88 (or equivalent), or instructor permission.
Term Typically Offered: Spring only

Use of found and readily available materials to make 2-dimensional collage and 3-dimensional assemblage. Most projects are conceptual, a few purely visual, and take from one to three class periods, including critique, and class discussions.
Note: May be taken twice for credit. Fee Course

Fee course.

ART 128.  Art and the Artist in the Marketplace.
Term Typically Offered: Spring only

Study of the thought processes and preparations for presenting one’s artwork in the marketplace. An overview of what it takes to begin showing and selling artworks, including the skills and procedures of presenting artwork to galleries. A study of contracts, loan agreements, invoicing, commissions, model releases, taxes, pricing of work, resumes, slide preparation/presentation, publicity skills, and record keeping. Lecture, field trips to galleries and museums.
Field trip(s) may be required.
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### Notes
- Fee course unless otherwise noted.
- ART 141 may be taken twice for credit. Cross-listed as CSC 126.
- ART 139 may be repeated as often as approved by advisor and Department chair.
- ART 137 may be repeated as often as approved by advisor and Department chair.
- ART 139 may be repeated as often as approved by advisor and Department chair.
- ART 140 may be repeated as often as approved by advisor and Department chair.
- ART 141 may be taken for credit four times.
- ART 142 may be taken twice for credit. Cross-listed as CSC 126.
ART 143. 3D Computer Animation. 3 Units
Prerequisite(s): ART 142 or CSC 126.
Term Typically Offered: Fall, Spring

Creative skills and techniques for animating 3D computer-modeled objects/environments. Topics include animation techniques; keyframing and interpolation; deformation and morphing; path control; skeletal animation; model rigging and skinning; forward and inverse kinematics, constraints and IK solvers; particle systems; fluid, cloth, hair, and fur simulation; shape keys; and soft body animation. Emphasis on both skill development and creative application of modeling and animation techniques. Includes demos, in class and homework exercises, and self directed projects.

Cross-listed: CSC 127.

ART 144. Digital Printmaking. 3 Units
Prerequisite(s): ART 97 or equivalent.
Term Typically Offered: Fall, Spring

Through traditional and digital print media, the course explores the convergence of digital imaging (vector and raster processes) and printmaking techniques (such as monoprint, lithography, etching and silkscreen). Vector graphics use geometry: points, lines and fills, creating crisp re-scaleable images. Raster graphics use a rectangular grid of pixels to create continuous-tone effects. By exploring these approaches and their transference to printmaking processes, students gain deeper understanding of print technology and a more tactile awareness of image making. Fee course.

Note: May be taken twice for credit.

ART 145. Advanced Printmaking Studio. 3 Units
Term Typically Offered: Fall, Spring

Advanced exploration of printmaking media (etching, lithography, relief, and monoprinting techniques) within a historical framework. Students investigate the printmaking techniques of historically significant figures and apply them to their own imagery.

Note: Open to students with experience in upper division painting or photography, or lower division printmaking. May be taken twice for credit. Fee course.

Fee course.

ART 146. Creative Coding. 3 Units
Prerequisite(s): ART 97 Fee course
Term Typically Offered: Fall only

Introduces techniques and artistic perspectives on interactivity and computationally-generated visual composition for New Media Artists. Nonlinear, dynamic, and generative approaches to composition, animation, video, and data processing are covered.

Note: This course is recommended for students planning to take ART 143 and ART 198.

ART 147. Video Art. 3 Units
Prerequisite(s): ART 97 or COMS 27A/FILM 27A and COMS 27B/FILM 27B.
Term Typically Offered: Fall, Spring

The creation and analysis of video artwork; including techniques of video production, post-production manipulation and critique, within the context of art and communication. The techniques and theory of producing and editing video will serve as a foundation for the pursuit of individual, creative projects. Cross-listed as COMS 157; only one may be counted for credit.

ART 148. Barrio Art for Ethnic Groups. 3 Units
Term Typically Offered: Fall, Spring

Provides a cultural situation for students who expect to work with the Mexican American community. Involves personal contact with persons in that community. Uses poetry, music, slides, and film to understand art as a non-verbal language.

Note: May be taken twice for credit.

ART 149. Graphics/Printmaking Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition.
Term Typically Offered: Fall, Spring

Open only to upper division art majors/minors who have completed 9 units in a specialized area.

Note: May be repeated as often as approved by advisor and Department chair.

Fee course.

ART 150. Advanced Ceramics. 3 Units
Prerequisite(s): ART 50 or equivalent.
Term Typically Offered: Fall, Spring

Advanced study of ceramic techniques leading toward the development of an individual creative expression. Fee course.

Note: May be taken for credit four times.

Fee course.

ART 153. Hand-Built Ceramic Techniques. 3 Units
Prerequisite(s): ART 53 or equivalent.
Term Typically Offered: Fall, Spring

Specialization in hand-built clay forms. Methods of working include coil, slab, pinch, and combinations of techniques which might include some wheel-thrown parts, decoration, and glazing of forms. Fee course.

Note: May be taken for credit four times.

Fee course.

ART 159. Ceramics Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area.

Note: May be repeated as often as approved by advisor and Department chair.
ART 160. Special Topics in Art Studio. 3 Units
Prerequisite(s): ART 121
Term Typically Offered: Fall only
A range of rotating exploratory investigations in studio art practice that consider and explore various topics of interest. A requirement for students in the BFA Program.
Note: This course may use materials that are hazardous and therefore both safety training and the use of personal protective equipment (PPE) will be required.

ART 161. Photography in the Field. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring
The class visits specific sites followed by a group critique of the resulting photographic work. The course objective is to examine how one situation can be interpreted by many varied sensibilities, broadening the artist's visual vocabulary. Students are required to create visually unified portfolio that demonstrates a sense of place.
Cross-listed: PHOT 161.

ART 162. Alternative Photographic Processes. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring
Studio course exploring alternative photographic processes that may include: printing-out paper, new cyanotype, argyrotype, and platinum-palladium. Slide discussions, individual and class critiques.
Cross-listed: PHOT 162.

ART 163. Pinhole Photography. 3 Units
Prerequisite(s): PHOT 40 or equivalent.
Term Typically Offered: Fall, Spring
Intermediate course investigating the theory, history, and practice of pinhole photography. Use of student-made pinhole cameras of varying focal lengths using black and white and color materials. Emphasis on creative approach in both camera making and image formation, supported by intermediate-level photographic technique. Individual final portfolios and group exhibition of cameras and prints at conclusion of course.
Cross-listed: PHOT 163.

ART 169. Photography Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring
Open to upper division art majors or minors only who have completed successfully 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 174. Intermediate Jewelry. 3 Units
Prerequisite(s): ART 74 or equivalent, or instructor permission.
Term Typically Offered: Fall, Spring
Continued study of the techniques and tools used in metal fabrication, such as raising, tool making, chasing and repousse, and scoring/bending process. Emphasis is on development and individual style. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 175. Intermediate Metalsmithing. 3 Units
Prerequisite(s): ART 75.
Term Typically Offered: Fall, Spring
Continued exploration of techniques, tools, and methods used in fabrication of ferrous and non-ferrous metal such as cold fastening, repousage, forging, and finishing processes. Emphasis is on composition and imagery. Fee course.

ART 176. Advanced Jewelry. 3 Units
Prerequisite(s): ART 174.
Term Typically Offered: Fall, Spring
Focus on the development of personal style in metal fabrication and casting techniques. Students learn to build mechanical devices such as clasp systems that enhance the overall appearance of their work.

ART 178A. Public Art Processes. 3 Units
Term Typically Offered: Fall only
Students will engage in the process of creating public art proposals. Along with community engagement the conception and design of a project will include historical, geographic and sociological research. Students will create professional presentations of their proposed project that consider all factors related to creating work in a public setting.

ART 178B. Public Art Studio. 3 Units
Term Typically Offered: Spring only
Following up on project proposals designed the previous term in ART 178A, students will engage in the process of creating public art works. The course will focus on the primary components of the project: budget, method or form, materials, dimension, transportation, engineering, permitting, installation and publicity. Students do not need to have taken 178A in order to benefit from and enroll in 178B. Field Trip(s) may be required. Fee course.
Note: May be taken twice for credit.

Fee course.
Field trip(s) may be required.

ART 179. Small Metals Studio. 3 Units
Prerequisite(s): ART 176.
Term Typically Offered: Fall, Spring
Open to upper division art majors or minors only who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.
ART 180.  Figure Sculpture.  3 Units  
Prerequisite(s): ART 20A or equivalent.  
Term Typically Offered: Fall only  

Work from live models in clay and plaster. Construction of armatures and waste mold demonstrated. Fee course.  
Note: May be taken for credit four times.  

Fee course.  

ART 182.  Intermediate Sculpture.  3 Units  
Prerequisite(s): ART 180 or equivalent.  
Term Typically Offered: Fall, Spring  

Intermediate explorations with traditional and non-traditional processes of sculpture, three-dimensional form and spatial relationships. Students will expect to explore concept based learning through visual problem solving while accumulating in depth techniques and skills in a variety of sculpture materials. Includes study of historical and contemporary examples of sculpture and other relevant forms of art.  
Note: May be taken twice for credit. Fee Course  

Fee course.  

ART 183.  Advanced Sculpture.  3 Units  
Prerequisite(s): ART 180 or 182 or instructor permission.  
Term Typically Offered: Fall, Spring  

Advanced explorations and study in sculpture, three-dimensional media and imagery and conceptual based art. Students can explore sculpture, advanced three-dimensional design, mixed media, installation art, site specificity, performance art, public art or other. Study will be both assignment based or self-directed. Fee course.  
Note: May be taken twice for credit.  

Fee course.  

ART 187.  Installation and Performance Art.  3 Units  
Prerequisite(s): ART 180 or either ART 70 or ART 88 or equivalent.  
Term Typically Offered: Spring only – even years  

Explores the practice, theory and history of making installation and performance art. Students will study contemporary artists of this genre while designing, modeling and creating installation projects. Performances are not mandatory. Students will exhibit their works in traditional campus galleries alternative spaces. Emphasizes individual investigation and discovery while remaining open to collaborative projects that may cross disciplines. Fee course.  
Note: may be taken twice for credit.  

Fee course.  

ART 189.  Sculpture Studio.  3 Units  
Prerequisite(s): Instructor permission and Department chair via signed petition form.  
Term Typically Offered: Fall, Spring  

Open to upper division art majors or minors only who have completed 9 units in a specialized area. Fee course.  
Note: May be repeated as often as approved by advisor and Department chair.  

Fee course.  

ART 191.  Film as an Art Form.  3 Units  
Term Typically Offered: Fall, Spring  

Wide range of theory and criticism of film, photography, and painting in the 20th century is presented from which the student may cultivate a coherent critical awareness. The development of realism in Western art, the photographic image, narrative in film, montage, and the development of cinematography will be included with special attention given to the films of D.W. Griffith, Sergei Eisenstein, Jean Renoir, Alfred Hitchcock, and Orsen Welles.  

Fee course.  

ART 192A.  Senior Seminar in Studio Art.  3 Units  
Prerequisite(s): Senior status (90 overall units), completion of 30 units of art studio courses, and (GWAR certification before Fall 09, or WPJ score of 70+ or at least a C- in ENGL 109M or ENGL 109W).  
Term Typically Offered: Fall, Spring  

Culminating studio art course designed to deepen experiences in diverse visual arts. Emphasis placed on independent studio practice with additional development in verbal and written skills in a variety of art disciplines. Participation in BA candidate exhibition required in the second enrolled semester for completion of the course.  
Note: Must be taken twice. Cannot be taken twice in the same semester.  

Fee course.  

ART 192B.  Senior Seminar in Art History.  3 Units  
Prerequisite(s): Senior status, completion of all lower-division major requirements, HIST 100, and GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.  
Term Typically Offered: Fall, Spring  

Focuses on the research, writing, and oral presentation of a 25-35 page thesis in the student’s area of interest. Seminar readings, discussions, and weekly workshops support the thesis project and develop basic career skills. Explores how to employ traditional and new research technologies and develops writing skills. Career topics include how to locate appropriate jobs, professional schools, and graduate programs; how to write professional resumes, correspondence, including graduate school and grant applications.  

Fee course.  

ART 192C.  Senior Seminar in Art Education.  3 Units  
Prerequisite(s): Senior status, and ART 130, ART 133, ART 134, and ART 135.  
Term Typically Offered: Fall only  

Relates current art education theories to teaching practices in elementary and secondary classrooms, and museum/gallery settings. Teaching practices in a classroom or gallery/museum setting will connect to curriculum materials developed.  

Fee course.  

ART 193.  Curatorial Projects.  3 Units  
Term Typically Offered: Fall only  

Through this course, students will directly participate in the planning and execution of curatorial projects in the visual arts, including the creation of physical and/or virtual art exhibitions in museums, galleries, and/or public spaces. Career possibilities are presented through field trips and class visits by professionals in the field. The focus is on practical experience, as well as history and theory. Field trip(s) may be required.
ART 193B. Introduction to Curatorial Studies. 3 Units
Term Typically Offered: Spring only

This course provides the foundation needed for professionally managing and displaying objects held in art collections. Through readings, small group discussions, field trips, guest lectures, and the directed experience of creating an exhibition of artworks from the Sacramento State Art Department collection, students learn the basics of curatorial studies and art collection management. Field trip. Field trip(s) may be required.

ART 194. BFA Senior Project. 3 Units
Prerequisite(s): Second semester Senior standing in BFA program with a minimum 63 units in the major.
Term Typically Offered: Fall, Spring

Under the mentorship of a faculty advisor, students develop a body of work to be exhibited in the BFA exhibition. Emphasis placed on engagement with research, content, and the process to produce professional quality work in preparation for graduate study and/or careers in the arts.

ART 195. Fieldwork. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observation and work experience with public agencies. Field work is offered for the purpose of giving students orientation in occupational specialties. Supervision is provided by both the instructional staff of the University and the cooperating agencies. Each student is required to maintain a record of activities and assignments, and to prepare periodic reports. The student must make arrangements with a faculty member for a work program prior to admittance to the course.

Credit/No Credit

ART 196. Experimental Offerings in Art. 1 Unit
Term Typically Offered: Fall, Spring

Undergraduate seminar in art, to be scheduled as needed.

ART 196W. Protest and Play: Northern California Art of the 1970s. 3 Units
Prerequisite(s): Upper-division standing, and Art 1B or Art 1C, or instructor permission
Term Typically Offered: Fall only – odd years

From the humor and wit of Funk through the politically engaged art of the Black Power, Chicano, Native Californian, and Feminist movements, this class surveys the history of Northern California art of the 1970s with a focus on the greater Sacramento region and art and artists emerging from the era’s defining protest movements. Lectures, discussions, readings, and assignments offer insights into the outstanding vitality and historical significance of this art world. Field Trip(s) Field trip(s) may be required.

ART 197. Intermediate Electronic Art. 3 Units
Prerequisite(s): ART 97, or equivalent experience, such as PHOT 11, Introduction to Digital Imaging.
Term Typically Offered: Fall, Spring

Explores the creative potential of digital imaging and multimedia art making techniques. Teaching methods will include hands on demonstrations, lab workshops, creative projects, reading assignments, seminars, discussion and critiques. The development of technical fluency will be stressed, and the creative potential of digital media within the framework of contemporary art, design and culture will be emphasized. Fee course.

Note: Proficiency in MAC-OS recommended. May be taken for credit three times.

Fee course.

ART 198. Advanced Electronic Art. 3 Units
Prerequisite(s): ART 197, or equivalent experience, evidenced in portfolio.
Term Typically Offered: Fall only

Utilizes the creative potential of electronic media to create art projects, working within the conceptual framework of developments in contemporary culture using a range of available software programs. An experimental and exploratory approach to the digital medium in concept, process and execution of work is encouraged. Fee course.

Note: Proficiency in MAC-OS recommended. May be taken for credit three times.

Fee course.

ART 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who are competent to carry on individual work.

Note: Departmental petition required.

Credit/No Credit

ART 201A. Mentored Individual Studio Practice 1. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor Permission
Term Typically Offered: Fall only

Individual studio guidance and instruction, semester 1 of 3. Students establish their individual studio practice and the research that informs it. Students work independently, meeting with an advisor regularly to evaluate their progress and work through problems. In 201A, students establish a graduate-level studio practice and the research and habits that surround it. Students take an exploratory approach, experimenting with content and methods to create a breadth of work for evaluation and discussion at the first-semester review. Supervisory Course.

ART 201B. Mentored Individual Studio Practice 2. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission, and ART 201A
Term Typically Offered: Spring only

Individual studio guidance and instruction, semester 2 of 3. Students maintain their individual studio practice and the research that informs it. Students work independently, meeting with an advisor regularly to evaluate their progress and work through problems. In the second semester, emphasis is placed on focusing students2 studio practice and research to create a body of work for presentation at the first-year review. Supervisory Course.
ART 201C. Mentored Individual Studio Practice 3. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission, and ART 201A and ART 201B
Term Typically Offered: Fall only

Individual studio guidance and instruction, semester 3 of 3. Students expand upon their individual studio practice and the research that informs it. Students work independently, meeting with an advisor regularly to evaluate their progress and work through problems. In the third semester, emphasis is placed on preparing a cohesive body of work for the advancement to candidacy exhibition and review. Supervisory Course.

ART 206. Art Theory and Criticism. 3 Units
Term Typically Offered: Fall only

Seminark discussions of essential readings in Western aesthetic philosophy and contemporary art theory and criticism. Stress is placed on the conceptualization of the student's own graduate production. Note: Required for students in art graduate program; Graduate Writing Intensive (GWI) course.

ART 207. Graduate Studio and Critique. 3 Units
Term Typically Offered: Fall, Spring

Graduate Studio and Critique focuses on the development of students' individual studio practice, while bringing that practice into dialog with others. Class time is divided between group critiques and individual studio work time.

ART 208. Intensive Graduate Studio and Critique. 6 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission
Term Typically Offered: Fall, Spring

Intensive Graduate Studio and Critique focuses on the development of students' individual studio practice, while bringing that practice into dialog with others. Class time is divided between group critiques and individual studio work time. In ART 208, students increase the depth and focus of their work, as well as their engagement in critiques. Note: May be taken twice for credit

ART 212. Contemporary Art. 3 Units
Prerequisite(s): Modern Art History: Art 1B or ART 109 or equivalent or instructor permission.
Term Typically Offered: Spring only

Beginning with international Pop art and Minimalism in the 1960s, surveys the history of contemporary art from the end of avant-garde modernism to the postmodernism and globalization of today. Lectures, discussions, readings and assignments, offer insights into the contexts, attitudes and ideas behind current art and visual culture. Note: Students who earned a grade of B or higher in ART 112 can fulfill the requirements for ART 212 by taking a one-unit supplemental ART 299 to satisfy graduate level criteria.

ART 219. Directed Research in Art History. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only. Note: May be repeated as often as approved by advisor and Department chair.

ART 220. Advanced Problems in Painting and Drawing. 3 Units
Prerequisite(s): ART 122B, graduate art student status, or instructor permission.
Term Typically Offered: Fall, Spring

Special problems in painting and drawing. Note: May be taken twice for credit.

ART 222. Studio Critique Seminar. 3 Units
Term Typically Offered: Fall, Spring

Critique seminar taught by one or more instructors representing different creative experiences. Note: Required for students in the art studio graduate program, every semester until the final review has been passed. Only 6 units may be applied toward the degree program. Open only to classified graduate students.

ART 222A. Graduate Seminar 1. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission
Term Typically Offered: Fall only

This course builds dialogue among an interdisciplinary cohort of MFA students while engaging them with contemporary issues and professional practices in the arts. Students discuss readings, attend lectures, prepare for program milestones, and produce and discuss professional documents and presentations. The first-semester graduate students focus is on beginning to develop their professional documents in preparation for the first-semester review while contextualizing their current studio practice. First three weeks of class are dedicated to first-year orientation. Seminar. Seminar 1 of 4.

ART 222B. Graduate Seminar 2. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission, and ART 222A
Term Typically Offered: Spring only

This course builds dialogue among an interdisciplinary cohort of MFA students while engaging them with contemporary issues and professional practices in the arts. Students discuss readings, attend lectures, prepare for program milestones, and produce and discuss professional documents and presentations. The second-semester graduate students focus is on further developing their professional documents in preparation for the first-year review while contextualizing their current studio practice. Seminar. Seminar 2 of 4.

ART 222C. Graduate Seminar 3. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission, and ART 222A and ART 222B
Term Typically Offered: Fall only

This course builds dialogue among an interdisciplinary cohort of MFA students while engaging them with contemporary issues and professional practices in the arts. Students discuss readings, attend lectures, prepare for program milestones, and produce and discuss professional documents and presentations. The third semester graduate students focus is on further developing their professional documents in preparation for the advancement to candidacy exhibition and review while continuing to contextualize their current studio practice. Seminar. Seminar 3 of 4.
ART 222D. Graduate Seminar 4. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission, and ART 222A, ART 222B, and ART 222C
Term Typically Offered: Spring only

This course builds dialogue among an interdisciplinary cohort of MFA students while engaging them with contemporary issues and professional practices in the arts. Students discuss readings, attend lectures, prepare for program milestones, and produce and discuss professional documents and presentations. The fourth semester graduate student's focus is on further developing their professional documents in preparation for the final MFA exhibition and review while continuing to contextualize their current studio practice. Seminar. Semester 4 of 4.

ART 229. Painting/Drawing Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 231. Teaching Practicum. 3 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission
Term Typically Offered: Fall, Spring

Instruction on the methods and procedure of running a studio art course. Practical experience working with and instructing undergraduate students. Applying skills in the student's expertise to the art of teaching in tandem with supervisory instructor. Supervisory course.

ART 239. Directed Research in Art Education. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 249. Graphics/Printmaking Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 259. Ceramics Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 269. Photography Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 279. Crafts/Art Metal Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 283. Graduate Sculpture. 3 Units
Prerequisite(s): Graduate Art Student Status, or instructor permission.
Term Typically Offered: Fall, Spring

Special problems in sculpture, mixed media, installation art, site specific art, performance art, public art or other. Students will engage in self-directed projects while participating in sculpture studio forum and critiques.
Note: may be taken twice for credit

ART 289. Sculpture Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified graduate students only. Fee course.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

Fee course.

ART 297. New Media 1. 3 Units
Term Typically Offered: Spring only

Students will work on self-directed new media projects with the supervision of the instructor. The work will focus on projects that are either entirely based on digital image and/or animation, or on works that also utilize other media or processes combined with digital image or animation, such as intermedia, mixed media and installation work. This course also includes reading assignments, critique and discussion.
Note: May be repeated twice for credit

ART 298. New Media 2. 3 Units
Term Typically Offered: Fall only

Students will work on self-directed video and new media with the supervision of the instructor. The work will focus on projects that are either entirely based in new media and video, or on works that also utilize other media or processes combined with video and/or interactive processes, such as intermedia, mixed media and installation work. The course also includes reading assignments, critique and discussion.
Note: May be taken twice for credit.
ART 299. Special Problems. 1 - 3 Units
Prerequisite(s): Open only to graduate art students competent to carry on individual work. Admission requires approval of the faculty member who will direct the work and of the Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Only 6 units may be applied toward the degree program.

Credit/No Credit

ART 305. Art in the Public School. 3 Units
Prerequisite(s): Enrollment in the art teaching credential program.
Term Typically Offered: Fall, Spring

Art teaching methods and programs for public school grades K-12. Must be taken during Phase I or II of student teaching.

ART 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of student’s project committee.
Term Typically Offered: Fall, Spring

Culminating exhibition of student work.

ART 500A. Culminating Experience Thesis. 3 Units
Prerequisite(s): Graduate Art Student Status and Instructor Permission.
Corequisite(s): ART 500B.
Term Typically Offered: Spring only

Guidance with written thesis as it pertains to the final body of work. Students will work with individual faculty to develop and complete thesis objective(s), outline and organize imagery as it pertains to the final body of work and create a final written document for digital publication. Supervisory course.

ART 500B. Culminating Experience Exhibition. 3 Units
Prerequisite(s): Graduate Art Student Status and Instructor Permission.
Corequisite(s): ART 500A.
Term Typically Offered: Spring only

Graduating cohort instruction for final MFA Exhibition including final proposal, exhibition catalogue, curatorial studio visit and selection, MFA exhibition catalogue and promotional material.

Arts and Letters (ALS)

ALS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Exploring majors in Arts and Letters and the careers they can lead to for freshmen considering a major in one of these disciplines. Provides students with the opportunity to interact with fellow students and the seminar leader and to build a community of academic and personal support.

ALS 39A. Special Problems for EOP Students. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individually directed projects or tutorial instruction in a skill development area or in any subject matter to develop a specific academic skill (i.e., essay writing).
Credit/No Credit

ALS 52A. Acad Strategies-ALS: History 6. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 52B. Academic Strategies-ALS: History 17A. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 52C. Academic Strategies-ALS: History 17B. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 52D. Academic Strategies-ALS: History 50. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 52E. Academic Strategies-ALS: History 51. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 52F. Academic Strategies-ALS: Philosophy 4. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit
ALS 52G.  Academic Strategies - ALS: English 40A.  1 Unit
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 52H.  Academic Strategies - ALS: History 7.  1 Unit
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 52J.  Academic Strategies - ALS: English 40B.  1 Unit
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 52K.  Academic Strategies - ALS: English 50A.  1 Unit
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 52L.  Academic Strategies - ALS: English 50B.  1 Unit
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 52M.  Academic Strategies - ALS: COMS 4.  1 Unit
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 53A.  Academic Strategies-CBA: Accountancy 1.  1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 53B.  Academic Strategies-CBA: Accountancy 2.  1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 53C.  Academic Strategies-CBA: Decision Science 101.  1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 54A.  Academic Strategies-ECS: Computer Science 15.  1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 54B.  Academic Strategies-ECS: Computer Science 20.  1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 55A.  Academic Strategies-HHS: Criminal Justice 1.  1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 56A.  Academic Strategies-NSM: ASTR 4B.  1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 56B.  Academic Strategies-NSM: Biology 22.  1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 56C.  Academic Strategies-NSM: Chemistry 4.  1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education
courses. Effective learning strategies for the academic course in which
the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit
ALS 56D. Academic Strategies-NSM: Chemistry 1A.
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 56E. Academic Strategies-NSM: Chemistry 1B.
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 56F. Academic Strategies-NSM: Chemistry 24.
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 56K. Academic Strategies-NSM: Geology 7.
1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 56L. Academic Strategies-NSM: Geology 8.
1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 56M. Academic Strategies-NSM: Physics 5A.
1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 56N. Academic Strategies-NSM: Physics 5B.
1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 56P. Academic Strategies - NSM: Biology 1.
1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 56Q. Academic Strategies - NSM: Biology 10.
1 Unit
Corequisite(s): BIO 10
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

1 Unit
Corequisite(s): BIO 20
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 56S. Academic Strategies - NSM: Geography 1.
1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit
ALS 57A. Academic Strategies-SSIS: Economics 1A. 1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 57B. Academic Strategies-SSIS: Economics 1B. 1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 57C. Academic Strategies-SSIS: Government 1. 1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 57D. Academic Strategies-SSIS: Psychology 2. 1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 57E. Academic Strategies-SSIS: FACS 10. 1 Unit
Corequisite(s): FACS 10
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 57F. Academic Strategies-SSIS: PSYC 101. 1 Unit
Term Typically Offered: Fall, Spring
Study skills adjuncts/SI classes for selected General Education courses. Effective learning strategies for the academic course (PSYC 101) in which the student is concurrently enrolled.
Note: May be repeated for credit; Instructor approval required.
Credit/No Credit

ALS 57G. Academic Strategies-SSIS: Anthropology 2. 1 Unit
Corequisite(s): ANTH 2
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 57H. Academic Strategies - SSIS: Economics 100A. 1 Unit
Term Typically Offered: Fall, Spring
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.
Credit/No Credit

ALS 70A. Strategies of Learning for EOP Students. 1 Unit
Term Typically Offered: Fall, Spring
This course is designed to provide individual approaches to self knowledge, motivation, educational philosophy and skills necessary to give the student a firm foundation for a productive educational program during his/her college and post-college career. The basic intent is to help the student perceive his/her position in the educational process, understand the necessity for succeeding, and learn how to succeed in college.
Credit/No Credit

ALS 79A. Developing Student Leadership EOP. 1 - 3 Units
Term Typically Offered: Fall, Spring
The course is designed to provide students an opportunity to develop leadership skills that will serve them throughout their college career. They will become familiar with the opportunities for leadership and growth at Sacramento State. Skills developed will include public speaking, team building, delegation, communication, and others.
Credit/No Credit

ALS 96. Academic Strategies: Experimental. 1 Unit
Term Typically Offered: Summer only
ALS 96 is a 1-unit, 1-week early start course for baccalaureate credit designed to prepare students for fall GE area A2. Working independently and collaboratively, students will use an inquiry-based approach to learning through research, reflection, and engagement with real world scenarios. Students will develop various academic literacies in order to understand the conventions of written communication required for success in a college setting.
Note: May be repeated for credit. Cross listed: MATH 96E.
Credit/No Credit

ALS 101. Texts Over Time. 3 Units
Term Typically Offered: Fall, Spring
Drawing on selected texts from across at least two historical periods or cultural settings, students will refine their skills of textual appreciation and analysis with an eye toward enhanced understanding of the texts in their historical and cultural contexts.
ALS 102. Individual, Community, and Citizenship. 3 Units
Term Typically Offered: Fall, Spring
This course examines the relationship between the individual and the community across at least two historical periods or cultural settings. Students will examine how perceptions of this relationship contribute to an understanding of belonging to or exclusion from political and social life.

ALS 103. Creativity, Meaning, and Criticism. 3 Units
Term Typically Offered: Fall, Spring
This course examines the theoretical and practical bases that sustain the creative process, especially as it is engaged in the production and interpretation of meaning in the arts and literatures, as well as the foundation for their criticism.

ALS 104. Happiness, Well-Being and the Good Life. 3 Units
Term Typically Offered: Fall, Spring
This course will examine the conditions and characteristics of living a good life, how happiness and well-being contribute to it, and its value as expressed in a range of human activities. Students will examine happiness, well-being and the good life in at least two historical periods or cultural settings.

ALS 151. The Studio: Explorations in Arts and Letters. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
This course provides students with an opportunity to become informed and engaged participants in the cultural, artistic and literary dimensions of their communities. Students will explore the ways our experience of and appreciation for cultural products is informed by exposure to theory and practice in each of the Arts and Letters disciplines.

ALS 160. Arts Organizational Management and Communication. 3 Units
Term Typically Offered: Fall, Spring
This course provides a foundation in the management of arts organizations, creative enterprises, and other endeavors. Students will examine the administrative aspects of arts organizations to understand how these organizations are structured and operate. Students will gain experience with professional communication practices including intra-organizational communication and communication with external partners and clients. Students will also explore how communication practices simultaneously shape and are shaped by organizations.

ALS 195. Internship in Arts and Letters. 1 - 3 Units
Prerequisite(s): Faculty approval required; Upper division status; Overall Sacramento GPA 2.3
Term Typically Offered: Fall, Spring
Directed work experience in the internship program. Instructional staff and the cooperating agency provide supervision.
Credit/No Credit

ALS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed study.
Note: Petition and faculty approval required; may be repeated for credit.
Credit/No Credit

Asian Studies (ASIA)

ASIA 1. Asia in the World Today. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only
This course provides a foundation in the area studies discipline of Asian Studies as a distinct thematic and geographic area of inquiry. Offers a brief introduction to trending issues in East, Southeast, and South Asia, such as migration, human rights, religion, development, food, film, music, etc. through the lens of art, geography, history, culture, economics, society, religion, and politics.

ASIA 96. The Way of Chanoyu: An Interdisciplinary Approach to the Japanese Tea Gathering. 3 Units
Term Typically Offered: Fall, Spring
This course traces the development of a multifaceted cultural practice integrating architecture, garden design, art, painting, and calligraphy into a carefully constructed hospitality ritual. Students explore multiple aspects of Japanese Chado via hands-on learning including aesthetic, economic, scientific, socio-political and cultural dimensions associated with tea. The course is taught in the Nakatani Tea Room, including weekly classroom lectures and discussions, demonstrations, on-line learning modules, a group project, and typically, a day field trip to San Francisco. Field trip(s) may be required.

ASIA 110. Anthropology of Contemporary Asia. 3 Units
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall only
This course examines contemporary Asia as an articulation of intersecting historical, cultural, political and economic processes. The course will focus on postcolonial developments and critically explore the manner in which process of globalization and neoliberal strategies embed themselves within, and the responses they elicit from societies across Asia.

ASIA 111. Asian Diaspora and Migration. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall only
Survey of the social, political, cultural, and economic factors surrounding contemporary transnational migration across and beyond Asia. Presents a comparative analysis of the impact of colonialism and the Cold War on Asian diaspora and engages with theoretical debates in migration studies. Examines the intersectionality of class, gender, and ethnicity upon immigrant communities in the U.S. and around the world.

ASIA 134. History of Modern Korea. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only
Traces the historical development of modern Korea since the colonial era of the late 19th century. Explores historiographies, theoretical debates, and films dealing with the following themes: national ideology and national bodies, economic and political contentions, modern education and scientific management, class and gender formation, capitalism and urbanization, colonial migration and cosmopolitanism, anti-colonialism, and socialist/revolutionary thought.
ASIA 135. Contemporary Korean Culture. 3 Units
Term Typically Offered: Spring only

This course provides a comprehensive understanding of Korean culture and society through the analysis of contemporary Korean popular media. By critically examining the particular cultural phenomenon of the Korean Wave, this course upholds various Korean popular media (film drama, documentaries, and music) as significant forms of visual culture, which reflect as well as shape the reality of people's everyday lives both within and outside Korea.

ASIA 136. Korean Development and Behavior. 3 Units
This course examines critical issues in Korean human development and behavior with particular attention given to current theoretical perspectives within a fast developing society. Topics include identity, cognitive development, mental health, tiger parenting, gender roles, socio-emotional development, body image, and transracial adoptions. This course integrates an interdisciplinary approach and includes indigenous discourse on Confucianism and Eastern and Western thought to understand the underlying processes of the Korean heritage person as an individual and as a member of a larger society.

ASIA 137. North Korean Politics and Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Examines the unique type of North Korean socialism, nationhood, and 'peoplehood', and provides a new historical and theoretical understanding of militarization, socialist transition in a global economy, social hierarchy, political leadership, and foreign policy. Explores theories of state and socialism, historical narratives, ethnographies, firsthand witness stories, journalistic analysis, documentaries, and films made in and beyond North Korea.

ASIA 138. Modern East Asian Cinema. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Arts (Area C1)
Term Typically Offered: Fall, Spring, Summer

Survey of the development of cinema in Asia, focusing primarily on cinematic masterpieces from China, Hong Kong, and Japan. Focuses on directors, actors, and studios that left a lasting mark on cinema history. Also focuses on how the Asian aesthetic sense differs from the Hollywood norm.
Cross-Listed: HIST 140; only one may be counted for credit.

ASIA 140. US-China Relations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

This course explores the historical foundation of US-China relations, tracing from 19th century encounters through world wars, ideological confrontation, rapprochement, and into the contemporary era. Focus on international and political dimension of diplomatic and strategic interests, also explores cultural and social connections through trade, investment, migration, and tourism.
Cross-listed: POLS 146.

ASIA 151. Genocide in Southeast Asia. 3 Units
Term Typically Offered: Fall, Spring

Survey of human rights abuses and genocides that have occurred in post-colonial Southeast Asia. Focuses on mass killings in Indonesia and Cambodia and communal riots often targeting the ethnic Chinese community, religious minorities, or highland peoples like the Hmong. Topics include cultural genocide, ideological pressure, and ethnic intolerance. An interdisciplinary literature will interpret the causes and conditions while introducing students to the diverse societies and cultures of Southeast Asia.

ASIA 190. Travel Study in Asia. 1 - 6 Units
Term Typically Offered: Fall, Spring, Summer

A faculty-led study abroad course to Asia. Students will learn about one or more Asian countries through living and traveling in the country(ies), classroom instruction, and field trips to various sites. Fee course. Fee course.
Field trip(s) may be required.

ASIA 195. Internship: Asian Studies. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience on topics related to the study of Asia's art, culture, economics, geography, environment, politics, and government and social issues.
Credit/No Credit

ASIA 198. Modernity and Globalization in Asia. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Spring only

Survey of the history, politics, culture, and economy across Asia. Engages with key topics that have shaped Asia as of today and introduces the rise of the modern, building of nation-states, and globalization. Examines the impact of colonialism, imperialism, cold war politics, developmentalism, and global concerns across and beyond Asian countries.

ASIA 151. Genocide in Southeast Asia. 3 Units
Term Typically Offered: Fall, Spring

Survey of human rights abuses and genocides that have occurred in post-colonial Southeast Asia. Focuses on mass killings in Indonesia and Cambodia and communal riots often targeting the ethnic Chinese community, religious minorities, or highland peoples like the Hmong. Topics include cultural genocide, ideological pressure, and ethnic intolerance. An interdisciplinary literature will interpret the causes and conditions while introducing students to the diverse societies and cultures of Southeast Asia.

ASIA 190. Travel Study in Asia. 1 - 6 Units
Term Typically Offered: Fall, Spring, Summer

A faculty-led study abroad course to Asia. Students will learn about one or more Asian countries through living and traveling in the country(ies), classroom instruction, and field trips to various sites. Fee course. Fee course.
Field trip(s) may be required.

ASIA 195. Internship: Asian Studies. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience on topics related to the study of Asia's art, culture, economics, geography, environment, politics, and government and social issues.
Credit/No Credit

ASIA 198. Modernity and Globalization in Asia. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Spring only

Survey of the history, politics, culture, and economy across Asia. Engages with key topics that have shaped Asia as of today and introduces the rise of the modern, building of nation-states, and globalization. Examines the impact of colonialism, imperialism, cold war politics, developmentalism, and global concerns across and beyond Asian countries.

ASIA 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research projects, including directed readings, under the direction of an Asian Studies faculty person.
Credit/No Credit

Astronomy (ASTR)

ASTR 4A. Introduction to the Solar System. 3 Units
Prerequisite(s): One year of high school geometry or instructor permission.
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Spring only

ASTR 4B. Introduction to Stars, Galaxies, and Cosmology. 3 Units
Prerequisite(s): One year high school geometry or instructor permission.
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Description and explanations of astronomical phenomena related to stars, galaxies, and cosmology. Structure and evolution of stellar and galactic systems. Occasional observation periods.

ASTR 4C. Introduction to Astrobiology. 3 Units
Prerequisite(s): One year high school geometry or instructor permission.
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall only


ASTR 6. Astronomical Observation Laboratory. 1 Unit
Prerequisite(s): ASTR 4A, ASTR 4B, or ASTR 4C with C- or better; may be taken concurrently.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B5)
Term Typically Offered: Fall, Spring, Summer

Study and use of various telescopes; field observation of planets, stars, meteors, asteroids, the moon and sun; laboratory activities relevant to astronomy. Lab three hours.

ASTR 131. The Solar System and Space Exploration. 3 Units
Prerequisite(s): ASTR 4A or ASTR 4B or ASTR 4C or PHYS 11A or CHEM 1A and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Further Studies in Area B (B5)
Term Typically Offered: Fall only

Planets and satellites, including their composition, structure, and atmospheres, with emphasis on modern techniques and observations. Solar surface phenomena and their influence on planets through the solar wind. Comets, meteorites, and their implications for the origin and evolution of planets. Physical effects governing feasible forms of space exploration and colonization.

Note: This course is approved as a Writing Intensive course.

ASTR 132. Stars, Galaxies and Cosmology. 3 Units
Prerequisite(s): ASTR 4A or ASTR 4B or ASTR 4C or PHYS 11A or CHEM 1A and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Further Studies in Area B (B5)
Term Typically Offered: Spring only

Types and evolution of stars; structure and evolution of galaxies; overall structure of the universe; current developments in astronomy.

Note: This course is approved as a Writing Intensive course.

ASTR 150. Dark Matter and Dark Energy. 3 Units
Prerequisite(s): PHYS 106
Corequisite(s): PHYS 110
Term Typically Offered: Spring only – odd years

Introduction to historical, observational and theoretical principles of dark matter and dark energy in the Universe. Topics will include dark matter in galaxies (rotation curves, stellar motions), dark matter in clusters (virial theorem, x-ray observations), MACHOs and WIMPs as dark matter candidates, as well as the discovery of dark energy through supernovae observations, and additional probes of dark energy. Dark matter and dark energy will be discussed in the cosmological context of the Big Bang theory.

ASTR 180. Through Space and Time in the Planetarium. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

An exploration of the heavens through space and time using the planetarium as an investigative tool. This course covers the historical, observational and theoretical principles of astronomy. Topics include the nature of science, structure of the universe, the sky view, orbital motions, precession, constellations, lunar phases and eclipses. The course will also explore the observational evidence for modern and ancient world views.

ASTR 199. Special Problems. 1 - 2 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students competent to assume individual work on approval of the instructor. Up to 2 units may be taken for a grade.

Credit/No Credit

Athletics (ATIC)

ATIC 61. Men's Cross Country. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-August and the season ends in mid-November.
Credit/No Credit

ATIC 62. Men's Tennis. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins the first day of the fall semester and the spring schedule ends the last of May.
Credit/No Credit

ATIC 63. Men's Track and Field. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Indoor Track and Field practice begins in the fall. The competitive season is in the winter. Outdoor Track and Field practice begins the first day of spring semester and the season ends the last week of May.
Credit/No Credit
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite(s)</th>
<th>Term Typically Offered</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATIC 64</td>
<td>Men's Baseball.</td>
<td>2 Units</td>
<td>Intercollegiate Student Athletes only</td>
<td>Fall, Spring</td>
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<td></td>
<td>Practice begins in the fall with the competitive season starting February 1. The 56-game schedule is followed by the NCAA Championships for qualified teams in May.</td>
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<td>Credit/No Credit</td>
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<tr>
<td>ATIC 65</td>
<td>Men's Basketball.</td>
<td>2 Units</td>
<td>Intercollegiate Student Athletes only</td>
<td>Fall, Spring</td>
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<td></td>
<td>Practice begins mid-October. The season ends in late February and leads to NCAA Championships for qualified teams.</td>
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<td>Credit/No Credit</td>
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</tr>
<tr>
<td>ATIC 66</td>
<td>Men's Football.</td>
<td>2 Units</td>
<td>Intercollegiate Student Athletes only</td>
<td>Fall, Spring</td>
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<tr>
<td></td>
<td>Daily afternoon practice begins in late August. The 10-11 game schedule is followed by NCAA Championships for qualified teams in late November. There is also spring practice which follows NCAA regulations as to starting date.</td>
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<td>Credit/No Credit</td>
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<tr>
<td>ATIC 67</td>
<td>Men's Golf.</td>
<td>2 Units</td>
<td>Intercollegiate Student Athletes only</td>
<td>Fall, Spring</td>
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<tr>
<td></td>
<td>Practice begins fall semester Monday through Friday starting at noon.</td>
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<td>Credit/No Credit</td>
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<tr>
<td>ATIC 68</td>
<td>Men's Soccer.</td>
<td>2 Units</td>
<td>Intercollegiate Student Athletes only</td>
<td>Fall, Spring</td>
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<tr>
<td></td>
<td>Morning and afternoon practices begin in mid-August in accordance with NCAA regulations. Competitive season begins the first week of September and ends in mid-November. Daily practices during fall semester are from 3:00-6:00 p.m. Daily practices during the spring semester are also from 3:00-6:00 p.m. beginning the third week in February and ending the last week in April. You must see the head coach for permission to tryout.</td>
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<td>Credit/No Credit</td>
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<tr>
<td>ATIC 80</td>
<td>Women's Basketball.</td>
<td>2 Units</td>
<td>Intercollegiate Student Athletes only</td>
<td>Fall, Spring</td>
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<tr>
<td></td>
<td>Practice begins mid-October. The competitive season begins in November and continues to the end of February leading to the NCAA Championships for qualified teams.</td>
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<td>Credit/No Credit</td>
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<tr>
<td>ATIC 81</td>
<td>Women's Golf.</td>
<td>2 Units</td>
<td>Intercollegiate Student Athletes only</td>
<td>Fall, Spring</td>
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<td></td>
<td>Practice begins the second week of September. Competition consists of one or two matches in the fall and the remaining part of the schedule is during the spring semester. Interested student-athletes who would like to walk on and try out for the team should contact the coach.</td>
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<td>Credit/No Credit</td>
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<tr>
<td>ATIC 82</td>
<td>Women's Soccer.</td>
<td>2 Units</td>
<td>Intercollegiate Student Athletes only</td>
<td>Fall, Spring</td>
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<td></td>
<td>Morning and afternoon practices begin in mid-August in accordance with NCAA regulations. Competitive season begins the first week of September and ends in mid-November. Daily practices during fall semester are from 2:00-4:00 p.m.</td>
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<td>Credit/No Credit</td>
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<tr>
<td>ATIC 83</td>
<td>Women's Gymnastics.</td>
<td>2 Units</td>
<td>Intercollegiate Student Athletes only</td>
<td>Fall, Spring</td>
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<td>Practice begins in September. The competitive season begins in January and ends in late April with the NCAA Championships for qualified teams. Daily practices are 12:30-4:00 p.m. Student-athletes must contact the coach prior to tryouts.</td>
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<td>Credit/No Credit</td>
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<tr>
<td>ATIC 84</td>
<td>Women's Softball.</td>
<td>2 Units</td>
<td>Intercollegiate Student Athletes only</td>
<td>Fall, Spring</td>
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<td></td>
<td>Rowing accommodates both scholarship and walk-on athletes with no experience necessary. Tall cross-over student-athletes are encouraged to turn out. Daily practice starts in September, 6:00-8:30 a.m. There is a fall season long distance race season and a traditional &quot;sprint&quot; season in the spring semester, concluding with the National Championships in May. All student-athletes race. No limit on squad size. Freshman/Novice, Junior Varsity and Varsity squads, lightweight (130 lbs.) or open. Also, coxswains required. Should be under 115 lbs.</td>
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<td>Credit/No Credit</td>
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<tr>
<td>ATIC 85</td>
<td>Women's Tennis.</td>
<td>2 Units</td>
<td>Intercollegiate Student Athletes only</td>
<td>Fall, Spring</td>
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<td></td>
<td>Practice begins the first day of the fall semester and the spring schedule ends the last of May.</td>
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<td>Credit/No Credit</td>
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<tr>
<td>ATIC 86</td>
<td>Women's Volleyball.</td>
<td>2 Units</td>
<td>Intercollegiate Student Athletes only</td>
<td>Fall, Spring</td>
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<td></td>
<td>Preseason begins in mid-August. Competition begins September 1 and ends in mid-December with NCAA Championships for qualified teams. Daily practices are 2:00-5:00 p.m. Interested student-athletes must contact the coach prior to the preseason, be cleared by the Clearinghouse, and meet all eligibility requirements in order to participate in tryouts.</td>
<td></td>
<td>Credit/No Credit</td>
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</tbody>
</table>
### ATIC 88. Women's Cross Country.  
**2 Units**  
**Prerequisite(s):** Intercollegiate Student Athletes only  
**Term Typically Offered:** Fall, Spring  
Practice begins mid-August and the season ends in mid-November. Credit/No Credit

### ATIC 89. Women's Track and Field.  
**2 Units**  
**Prerequisite(s):** Intercollegiate Student Athletes only  
**Term Typically Offered:** Fall, Spring  
Indoor Track and Field practice begins in the fall. The competitive season is in the Winter. Outdoor Track and Field practice begins the first day of spring semester and the season ends the last week of May. Credit/No Credit

### ATIC 167. Coaching of Football.  
**3 Units**  
**Term Typically Offered:** Fall, Spring  
Examines all phases of the game, including offense, defense and special teams. Other topics covered are public/media relations, budget management, academic rules, marketing strategies, officiating, equipment and many other aspects. Lecture two hours, activity two hours.

### ATIC 175. Sports Information Fieldwork.  
**1 - 3 Units**  
**Prerequisite(s):** JOUR 123 or instructor permission.  
**Term Typically Offered:** Fall, Spring  
Directed observations and work experience with intercollegiate athletics sports information support services. Field work is offered to give students orientation in the profession of sports information services. Supervision is provided by the instructional staff of the university. Each student is required to maintain a record of activities and assignments and to prepare periodic reports.  
**Note:** May be repeated once for credit. Credit/No Credit

### ATIC 195. Field Experience in Intercollegiate Athletics.  
**1 - 3 Units**  
**Term Typically Offered:** Fall, Spring  
Directed experience in athletics. Student interns keep records of daily experiences and prepare periodic progress reports. Succeeding enrollments should be in different sports.  
**Note:** Registration requires prior approval of Director of Athletics. Credit/No Credit

### ATIC 199. Directed Individual Study.  
**1 - 3 Units**  
**Term Typically Offered:** Fall, Spring  
Individual research, project or directed reading.  
**Note:** Registration requires approval of the faculty under whom the individual work is to be conducted and the Director of Athletics. Credit/No Credit

### Biological Sciences (BIO)

**5 Units**  
**General Education Area/Graduation Requirement:** Life Forms (B2), Laboratory (B3)  
**Term Typically Offered:** Fall, Spring, Summer  
Introduction to properties of life and cells leading to genetic and biological diversity. Survey of biological diversity emphasizing variation leading to natural selection; introduction to ecological concepts within an evolutionary framework; a survey of ecosystems and global climate change. Development of scientific skills will be emphasized. Designed for science majors. Lecture three hours; laboratory three hours; activity two hours; fee course.  
**Note:** Field trips may be required. Fee course. Field trip(s) may be required.

#### BIO 2. Cells, Molecules and Genes.  
**5 Units**  
**Prerequisite(s):** BIO 1 and CHEM 1A.  
**Term Typically Offered:** Fall, Spring  
Introduction to molecular and cellular biology and genetics. Topics include biomolecules, cell structure and function, cellular energetics, molecular flow of information, cell division, and genetic inheritance. Development of scientific skills and a scientific mindset will be emphasized throughout the course, particularly in lab exercises and activities. Designed for science majors. Lecture three hours; laboratory three hours; activity two hours.

**4 Units**  
**General Education Area/Graduation Requirement:** Laboratory (B3), Life Forms (B2)  
**Term Typically Offered:** Fall, Spring  
Introduction to major concepts of biology, including properties of living things, cells and their molecular constituents, the unity and diversity of organisms, genetics, ecology, evolution, and the scientific methods of investigation employed by biologists. Satisfies requirements in biology for students planning to obtain the Multiple Subject Teaching Credential. Lecture three hours; laboratory three hours. Fee course. Fee course.

**3 Units**  
**General Education Area/Graduation Requirement:** Life Forms (B2)  
**Term Typically Offered:** Fall, Spring  
Designed for non-majors, this course is an introduction to the biological science behind important issues that face us today, such as those surrounding evolution, endangered species, conservation of ecosystems, and the behavior of organisms. By gaining an understanding of the scientific approach and the principles of evolution, ecology and behavior, students will be equipped to evaluate scientific developments and arguments in these and other issues as informed citizens. Lecture three hours.  
**Note:** Not open to Biological Sciences majors or students who have received credit for BIO 1 or BIO 2.
BIO 10.  Basic Biological Concepts. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring

An intensive introductory course for non-majors who will take additional course work in biology or related disciplines, including the allied health sciences. Introduction to the biological sciences with strong emphasis on cellular structure and metabolism, molecular biology and genetics, as well as concepts and principles common to all living systems including ecology and evolution. Lecture three hours. Fee course.

Note: Not open to Biological Sciences majors or students who have received credit for BIO 1 or BIO 2.

BIO 15L.  Laboratory Investigations in Biology. 1 Unit
Prerequisite(s): BIO 9, BIO 10 or BIO 20.
Corequisite(s): BIO 9, BIO 10 or BIO 20.
General Education Area/Graduation Requirement: Laboratory (B3)
Term Typically Offered: Fall, Spring

Introductory laboratory investigation of the major principles of biology, including properties of all living things, the unity and diversity of organisms, structure and function of cells, energy and metabolism, genetics, ecology, evolution, and the scientific methods of investigation employed by biologists. Laboratory three hours.

Note: Not open to Biological Sciences majors or students who have received credit for BIO 1 or BIO 2.

BIO 20.  Biology: A Human Perspective. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring

Introduction to biological concepts with emphasis on their application to humans. Topics include: Evidenced-based decision making with respect to food, nutritional supplements, drugs, pathogens, and biotechnology. How heredity and evolution contribute to our understanding of personality, sex, behavior, addiction, disease, and aging is also discussed. Lecture three hours.

Note: Not open to majors in biological sciences and/or students who have received credit for BIO 10.

BIO 22.  Introductory Human Anatomy. 4 Units
Prerequisite(s): BIO 1, BIO 2 or BIO 10
Term Typically Offered: Fall, Spring

Introduction to the study of the gross and microscopic structure of the human body using a systemic approach. Lecture three hours; laboratory three hours. Fee course.

BIO 25.  Human Anatomy and Physiology I. 4 Units
Term Typically Offered: Fall, Spring

BIO 25/26 series provides an introduction to the structure and function of the major organ systems of the human body. BIO 25 offers basic terminology and concepts pertaining to the disciplines of anatomy and physiology, including structure/function relationships, homeostasis, and organizational levels; and provides an introduction to the structure and function of the muscular and nervous systems.

Note: Not open to students who have successfully completed BIO 22 and BIO 131, or an equivalent combination of separate anatomy and physiology courses. Lecture three hours; laboratory three hours. Fee course.

BIO 26.  Human Anatomy and Physiology II. 4 Units
Prerequisite(s): BIO 25 or instructor permission.
Term Typically Offered: Fall, Spring

BIO 25/26 series provides an introduction to the structure and function of the major organ systems of the human body. BIO 26 provides an introduction to the structure and function of the cardiovascular, respiratory, renal and digestive systems, and emphasizes homeostatic control mechanisms.

Note: Not open to students who have successfully completed BIO 22 and BIO 131, or an equivalent combination of separate anatomy and physiology courses. Lecture three hours; laboratory three hours. Fee course.

BIO 30.  Anatomy & Physiology - Brief Course. 4 Units
Prerequisite(s): Physical Education majors only
Term Typically Offered: Fall, Spring

An overview of the basic anatomy and physiology of all systems. Designed to meet the standards for the Physical Education Subject Matter Program, but may also may prepare students for study in other health-related fields.

BIO 39.  Microbiology for Allied Health Students. 4 Units
Prerequisite(s): BIO 10; CHEM 5 or CHEM 6A and CHEM 6B or equivalent.
Term Typically Offered: Fall, Spring

Introduction to micro-organisms, particularly bacteria and viruses, with emphasis on health care-related applications of microbiology using case studies. Laboratory work includes aseptic techniques, methods of cultivating and identifying bacteria, demonstration of microbial properties and will provide practice with basic microbiological skills. Lecture three hours; laboratory three hours. Fee Course.

Note: Does not satisfy microbiology requirement for Biological Sciences majors.

BIO 100.  Introduction to Scientific Analysis. 3 Units
Prerequisite(s): BIO 1, BIO 2, and STAT 1; declared Biological Sciences majors only or instructor consent.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Prepares students for upper division Biology coursework and careers in science using a curriculum centered on critical thinking and evidence-based instruction and activities. Covers core competencies required for the practice of science: 1) evaluative reading, 2) written and oral communication, 3) analysis/quantitative reasoning, and 4) experimental design. Online lecture two hours. In-person laboratory three hours.

Note: Course cannot be taken concurrently with or after taking BIO 167.
BIO 102. The Natural History of Plants. 3 Units
Prerequisite(s): A college course in biology or instructor permission.
Term Typically Offered: Fall, Spring

Major plant communities of California provide a framework for understanding the interrelationships of natural environments and the dominant trees and shrubs of these areas. Identification of these species and the wildflowers of the communities are emphasized in the lab and field trips. Designed for minors in biology or for those with an interest in their natural surroundings, but is acceptable for majors who have not completed BIO 112. Lecture one hour; laboratory six hours. Fee course. Fee course. Field trip(s) may be required.

BIO 103. Plants and Civilization. 3 Units
Prerequisite(s): BIO 10 or equivalent.
Term Typically Offered: Fall only

Study of the significance of plants in the development of human civilization. Emphasis will be placed on the botanical, sociological and economic aspects of plants useful to humans. Lecture three hours.

BIO 104. Physiology of Human Reproduction. 3 Units
Prerequisite(s): BIO 1, BIO 2 or BIO 10.
Term Typically Offered: Fall only

Study of the physiology of human reproduction. Topics to be covered include: gametogenesis, the basis of fertility, conception, prenatal development, parturition, lactation and the physiology of contraception. Lecture three hours.

BIO 105. Life in the Ocean. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Study of marine life and ocean ecosystems. Exploration of the unique adaptations of marine life, how marine organisms interact with their environment, diversity of marine habitats from coral reefs to deep sea, and conservation. Does not count toward the Biological Sciences Major. Lecture three hours.

BIO 106. Genetics: From Mendel to Molecules. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the principles of genetics and scientific approaches used to define those principles. The physical basis of heredity, the impact of selective breeding and genetic engineering will be discussed. Lecture two hours; discussion one hour.
Note: BIO 10 recommended.

BIO 109. Biology of Dinosaurs. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Introduction to the biology of the dinosaurs. Dinosaurs came in a vast array of shapes and sizes and exemplify biodiversity. This course will examine the dinosaurs in an evolutionary framework, discussing their origin, the major lineages, phylogeny and what they look like today. The course will take advantage of the recent surge in scientific investigations into the biology of dinosaurs, such as parental care, sexual selection, group living, flight and feathers. Does not count toward the Biological Sciences Major.

BIO 110. Plant Taxonomy. 4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Spring flora of central California is used as the focus of study in the classification and identification of native vascular plants. Lecture two hours; laboratory six hours. Field trips may be required. Fee course. Fee course. Field trip(s) may be required.

BIO 112. Evolution and Speciation in Flowering Plants. 3 Units
Prerequisite(s): BIO 1 and BIO 2 or equivalent.
Term Typically Offered: Fall only – even years

A survey of the important tools and mechanisms used to study speciation in plants. Topics include the molecular basis of evolutionary change, intraspecific genetic variation at both the local and landscape levels, theory regarding mechanisms of speciation, and the importance of polyploidy. Readings will be from both a text and from the primary literature, and will include in-depth discussions of historical and modern studies in plant evolution. Lecture three hours.

BIO 115. Introduction to Neuroscience. 4 Units
Prerequisite(s): PSYC 2 and PSYC 9; PSYC or BIO majors only. PSYC 9 recommended.
Term Typically Offered: Fall, Spring

Investigation of the structure and function of the central nervous system including neuroanatomy and neuropsychology, sensorimotor integration. The lectures and readings emphasize the empirical questions, techniques and methods used in neuroscience research. Laboratory exercises focus on gross- and micro- neuroanatomy, models of membrane electrophysiology and motor system function. Lecture/discussion three hours; laboratory three hours.
Cross Listed: PSYC 115; only one may be counted for credit.

BIO 116. Natural Resource Conservation. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only

Introduction to the principles and practices of biological conservation. Historical development of conservation philosophy; current issues in conservation of renewable natural resources; conservation administration. Lecture three hours.

BIO 120. Biology of Aging. 3 Units
Prerequisite(s): BIO 1, BIO 2, BIO 10 or BIO 20.
Term Typically Offered: Fall, Spring

Theories of aging, cellular aging and aging effects on the various human body systems. Lecture three hours.
Note: Not open for credit to students who have previously taken BIO 131.

BIO 121. Molecular Cell Biology. 3 Units
Prerequisite(s): BIO 184
Term Typically Offered: Fall, Spring

Comparison of the cellular and molecular biology of prokaryotic and eukaryotic cells. Emphasis will be placed on membrane structures, transport phenomena, cell to cell communication, cellular reproduction, genetic architecture, gene expression and metabolism, as well as the eukaryotic endomembrane, cytoskeleton and extracellular matrix systems. Lecture three hours.
### BIO 122. Advanced Human Anatomy
**Prerequisite(s):** BIO 22  
**Term Typically Offered:** Spring only

Gross structure of the human body using a regional approach. Lecture three hours; laboratory three hours. Fee course.

### BIO 123. Neuroanatomy
**Prerequisite(s):** BIO 22  
**Term Typically Offered:** Fall only

Gross and microscopic structures of the central, peripheral and autonomic nervous systems. The lectures are correlated with laboratory exercises and demonstrations using human prosected cadaver specimens, audio-visual slide projected materials, charts and models. Lecture two hours; laboratory three hours. Fee course.

### BIO 124. Comparative Vertebrate Morphology
**Prerequisite(s):** BIO 1 and BIO 2  
**Term Typically Offered:** Spring only

Study of the anatomical systems of vertebrates in an evolutionary and functional context. Covers vertebrate form, function, development and phylogeny, overviews of organ systems, and how their modification founded the major events of vertebrate evolution including metamorphosis, water-to-land transition, tetrapodal locomotion, feeding and reproduction. Labs complement lectures with dissections of three representative species (shark, salamander, cat), and surveys of specializations in other forms. Lecture two hours; laboratory three hours. Fee course.

### BIO 125. Body Fluid Analysis
**Prerequisite(s):** CHEM 161 or instructor permission  
**Term Typically Offered:** Fall only

Production of body fluids (e.g., urine, cerebrospinal, pleural, peritoneal, pericardial, and synovial fluids); their normal characteristics and pathological changes will be discussed. A description of the laboratory tests used in the clinical evaluation of body fluids will also be presented.

### BIO 126. Plant Anatomy and Physiology
**Term Typically Offered:** Spring, Fall

An integrative examination of our current understanding of plant structure and function. Students will apply fundamental principles of cell and molecular biology, evolution, and ecology to understand the relationships between plant anatomy and plant physiology that have enabled plants to achieve such a high level of success as primary producers on our planet. Lecture three hours, laboratory three hours. Fee course.

### BIO 127. Developmental Biology
**Prerequisite(s):** BIO 2 AND BIO 184  
**Term Typically Offered:** Fall only

This course examines the progression of fertilized eggs of vertebrate organisms through embryonic development. This progression will be studied at biochemical, molecular, genetic, morphological and physiological levels, with an emphasis on the progressive changes that occur within cells, tissues and organs in the embryo. We will use a comparative approach between a variety of model organisms to understand similarities and differences among vertebrate and selected invertebrate species. Fee course.
BIO 134. Medical Mycology. 3 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Spring only – even years

Study of the morphology, cultural characteristics and classification of fungi which are pathogenic for humans, as well as fungi which appear as common contaminants. Lecture two hours; laboratory three hours. Fee course.

BIO 135. Endocrinology. 3 Units
Prerequisite(s): BIO 121.
Term Typically Offered: Fall only

Advanced consideration of the principles of endocrinology with special emphasis on the role of hormones in growth, metabolism, stress (including the hormonal interactions during exercise) and disease. Various endocrine disorders, will serve as the model for case studies, current literature analysis and advanced problem-solving activities. Lecture three hours.

BIO 139. General Microbiology. 4 Units
Prerequisite(s): BIO 184; CHEM 20 or CHEM 24
Term Typically Offered: Fall, Spring

Introduction to microorganisms, particularly bacteria and viruses, their physiology and metabolism. Laboratory work includes aseptic techniques, methods of cultivating and identifying bacteria, and demonstration of microbial properties. Lecture three hours; laboratory three hours. Fee course.

BIO 140. Medical Microbiology and Emerging Infectious Diseases. 3 Units
Prerequisite(s): BIO 39 or BIO 139.
Term Typically Offered: Spring only

Lectures, discussions, and readings regarding infectious viruses, bacteria, fungi, and parasites, with an emphasis on highly relevant pathogens including emerging infectious agents and microbes that are regionally endemic. The clinical syndrome, along with the molecular and cellular aspects of the course of infection of each pathogen will be discussed. Additionally, the history of microbiology and medicine as well as a brief overview of laboratory methods used for diagnosis will also be covered. Lecture three hours.

Note: BIO 140 cannot substitute for BIO 144 in the CLS concentration in Biological Sciences.

BIO 143. General Virology. 3 Units
Prerequisite(s): BIO 121 and BIO 139
Term Typically Offered: Spring only

Lectures and demonstrations on the fundamental characteristics and properties of plant, animal and bacterial viruses. Lecture three hours.

BIO 144. Pathogenic Bacteriology. 4 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Fall only

Morphological, physiological and immunological characteristics of pathogenic bacteria. In the laboratory, pure culture studies are emphasized. Lecture two hours; laboratory six hours. Fee course.

BIO 145. The Diversity of Microorganisms. 4 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Spring only

Isolation, cultivation and characterization of a wide variety of soil and water microbes from natural habitats using a variety of culture and non-culture based techniques; natural habitats also will be examined directly for the numbers and varieties of microbes which are present using bioinformatic and statistical tools. Lecture two hours; laboratory six hours.

BIO 149A. Immunology. 3 Units
Prerequisite(s): BIO 121 and BIO 139
Term Typically Offered: Fall only

Nature of antigens, antibodies and their reactions. The development of the immune response and its role in immunity and pathology. Lecture two hours.

BIO 149B. Immunology and Serology Laboratory. 1 Unit
Prerequisite(s): BIO 139, BIO 149A.
Term Typically Offered: Not offered

Laboratory exercises designed to provide familiarity with common clinical laboratory procedures in serology. Laboratory three hours. Fee course.

BIO 149C. Advanced Problems in Immunology. 1 Unit
Prerequisite(s): BIO 139 and CHEM 161.
Corequisite(s): BIO 149A.
Term Typically Offered: Fall only

Advanced problem-solving in immunology designed for students concurrently enrolled in BIO 149A. Discussions and problem sets are focused on the medical, clinical, and biotechnology applications of immunology. Discussion one hour.

Credit/No Credit

BIO 150. Forensic Biology. 3 Units
Prerequisite(s): BIO 1, BIO 2 and BIO 184.
Term Typically Offered: Spring only

Principles governing the application of biology and biological statistics to solve crimes. Topics include evidence examination and preservation, presumptive and confirmatory serological tests, hair comparison, generation and statistical analysis of mitochondrial and nuclear DNA profiles, structure and administration of the modern crime laboratory, and the role of the criminalist in the U.S. court system. Lecture two hours; laboratory three hours.

Note: Not offered every semester

BIO 151. Advanced Laboratory Techniques in Forensic Biology. 2 Units
Prerequisite(s): BIO 150 or instructor permission.
Term Typically Offered: Fall only

Laboratory exercises focusing on current research problems and skills in forensic serology, DNA typing, and court testimony. Topics will include DNA mixture and low copy number interpretation, advanced techniques in serological testing, research ethics, as well as skills for effective communication in the courtroom. Topics may also include Y-STR typing, animal and plant DNA identification and typing, microbial forensics, somatic mosaicism, ELISA specificity and sensitivity testing, and other current areas of active inquiry. Designed to prepare students for entry level positions as DNA analysts in federal, state, and local crime laboratories. Laboratory six hours. Fee course.

Fee course.
BIO 152. Human Parasitology. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Examines, in detail, the most important species of protozoans, flukes, tapeworms and roundworms that infect humans. Life cycles, pathology and prophylaxis constitute the principal topics in lectures. Morphology, physiology, taxonomy and diagnosis constitute the principal topics in the laboratory. Lecture two hours; laboratory three hours. Fee course. Fee course.

BIO 156. Food Microbiology. 3 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Fall, Spring

Microbiology of food fermentations, food preservation and spoilage. Lecture two hours; laboratory three hours. Fee course. Fee course.

BIO 157. General Entomology. 4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only

Biology of insects and a brief consideration of other terrestrial arthropods. Includes structure, physiology, ecology, classification, economic importance, collection and preservation of insects. Lecture three hours; laboratory three hours. Fee course. Fee course.

BIO 160. General Ecology. 3 Units
Prerequisite(s): BIO 1 and BIO 2 or BIO 1 and BIO 10; BIO 100 or ENVS 120. Fee course.
Term Typically Offered: Fall, Spring

Examination of the interrelationships among organisms and their environments. Designed for the major in Biological Sciences or related fields. Topics include the structure and function of terrestrial and aquatic ecosystems, population and community dynamics and human effects on ecosystems. Projects and field trips required. Lecture two hours; laboratory three hours. Fee course. Fee course.

Field trip(s) may be required.

BIO 162. Ichthyology: The Study of Fishes. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only – even years

Biology of fishes: structure, physiology, ecology, economic importance, propagation and classification. Methods of identification, life history study, propagation, collection and preservation. Lecture two hours; laboratory three hours. Field trips may be required. Fee course. Fee course.

Field trip(s) may be required.

BIO 164. Amphibians and Reptiles: An Introduction to Herpetology. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only – even years

Taxonomy, natural history, ecology and distribution of amphibians and reptiles with emphasis on local forms. Lecture two hours; laboratory three hours. Field trips may be required. Fee course. Fee course.

Field trip(s) may be required.

BIO 165. Vertebrate Zoology. 3 Units
Prerequisite(s): BIO 1, BIO 2, or BIO 10, or permission of instructor.
Term Typically Offered: Summer only

Study of vertebrate life and structure-function relationships. Exploration of the unique and diverse vertebrates of North America. Integrating multiple disciplines (ecology, biology, evolution, and biomechanics) to explore the biology and evolutionary history of vertebrates. Survey and critically test important theories and hypotheses about vertebrate zoology through literature reviews, field experiments, analyses, and presentations. Field trip(s) may be required.

Field trip(s) may be required.

BIO 166. Ornithology. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only – odd years

Biology of birds: structure, physiology, ecology, behavior, and classification. Methods of life history study, ecological studies, laboratory and field identification. Lecture two hours; laboratory three hours. Field trips required. Fee course. Fee course.

Field trip(s) may be required.

BIO 167. Quantitative Methods in Biology. 3 Units
Prerequisite(s): STAT 1 and BIO 100 or graduate status
Term Typically Offered: Spring only

Focuses on statistical hypothesis testing and experimental design in the biological sciences. Topics include the development of a hypothesis, study design and implementation, management and presentation of data, identification of data types, and appropriate use of statistical procedures. General application to a wide range of biological disciplines and will emphasize the scientific process, critical thinking skills, and the interpretation of statistical results, which will include a project culminating a scientific paper and presentation. Lecture two hours; laboratory three hours.

BIO 168. Mammalogy. 4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only

Biology of mammals: structure, physiology, ecology, behavior, and classification. Methods of life history study, laboratory and field identification. Lecture two hours; laboratory three hours. Field trips required. Fee course.

Fee course.

Field trip(s) may be required.

BIO 169. Animal Behavior. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Introduction to the fascinating world of why animals do the things that they do. Focus is on the evolution and function of animal behavior through understanding the costs and benefits of different behavior including foraging, fighting and reproduction. Lecture two hours; laboratory three hours. Fee course. Fee course.
BIO 170. Advanced Nutrition and Metabolism. 3 Units
Prerequisite(s): CHEM 161, FACS 113; or instructor permission.
Term Typically Offered: Spring only – odd years
Study of the physiologic function of carbohydrates, lipids, protein and micronutrients including integrated metabolism, transport, regulation and relation to inborn errors/chronic disease. Introduction to gene-nutrient interaction. Cross Listed: FACS 170; only one may be counted for credit.

BIO 173. Principles of Fisheries Biology. 3 Units
Prerequisite(s): BIO 160, STAT 1.
Term Typically Offered: Fall only – odd years
Introduction to the biological principles basic to fisheries science, including enumeration, recruitment, growth, abundance and mortality. Mathematics, computer modeling, and field methods will be used to understand natural populations and the impact of fishing on those populations in keeping with modern approaches to fisheries science which are grounded in population ecology and conservation biology. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 178. Molecular Ecology. 4 Units
Prerequisite(s): BIO 184
Corequisite(s): BIO 188
Term Typically Offered: Fall, Spring
A survey of the use of molecular tools to understand ecological questions. Lecture will focus on the background and history of the use of molecular tools in ecological settings, including application of molecular tools to conservation of natural resources. Laboratory will include techniques for both wet lab and analysis of molecular data, including interpretation of results. Students will complete a capstone-style project that will culminate in the production of a research proposal.

BIO 179. Conservation Biology & Wildlife Management. 3 Units
Prerequisite(s): BIO 100. BIO 160 recommended. Or instructor permission. Paired
Term Typically Offered: Spring only
Study of human effects and management of ecological systems, including populations, communities, and ecosystems. Topics include population and biodiversity responses to human activities, endangered species management, reserve design, and restoration. Paired course with Bio 279.
Note: Lecture two hours; laboratory and fieldwork three hours; meets in the same location with the same instructor as Bio 279; course cannot be taken concurrently with or after taking Bio 279; Bio 279 cannot be taken in the graduate program after completing Bio 179.

BIO 180. Advanced Molecular Biology. 4 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Fall, Spring
Examination of the structure of genes and genomes, the mechanisms by which they change, and the use of evolutionary relationships to understand function. Mechanisms of the regulation of gene expression from gene to phenotype and the tools used to study these processes. Applications of molecular tools in medicine and biotechnology and the ethics around these approaches. Lecture two hours, laboratory six hours.

BIO 183. Cancer Biology. 3 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Fall only
Study of cancer from the molecular level to the effect on whole tissues and organs. Topics to be covered include the classification and nomenclature of cancers, the process leading up to the formation of a cancer, the possible causes of cancer, and possible treatment. Lecture two hours.

BIO 183A. Advanced Problems in Cancer Biology. 1 Unit
Prerequisite(s): BIO 121 and BIO 184 and BIO 183 or instructor permission; BIO 183 may be taken concurrently
Term Typically Offered: Fall, Spring
Literature searches and discussions are focused on medical, clinical, and biotechnological applications of Cancer Biology.

BIO 184. General Genetics. 4 Units
Prerequisite(s): BIO 1 and BIO 2; declared major in Biological Sciences, Biochemistry, Chemistry or instructor consent
Term Typically Offered: Fall, Spring, Summer
Principles of inheritance as they relate to microorganisms, plants, animals and humans. Genetic mechanisms are analyzed according to evidence derived from both classical and current research. The nature, structure, and function of the genome are considered at the molecular level. Lecture three hours; laboratory three hours. Fee course. Fee course.

BIO 185. Topics in Biology. 3 Units
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2; CHEM 20.
Term Typically Offered: Fall, Spring
Current topics in cellular, developmental and/or molecular biology. Topics will vary. May be taken more than once provided that topics are different. Lecture three hours.

BIO 186A. Cell and Molecular Biology Seminar. 1 Unit
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2.
Term Typically Offered: Fall, Spring
Series of at least 10 seminars in cell and molecular biology. Topics within each seminar will vary each semester.
Note: May be repeated for credit. No more than one unit of BIO 186 may be counted toward the upper division major requirement.
Credit/No Credit

BIO 186B. Ecological and Environmental Issues Seminar. 1 Unit
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2.
Term Typically Offered: Fall only
Series of at least 10 seminars in ecological and environmental issues. Topics within each seminar will vary each semester.
Note: May be repeated for credit. No more than one unit of BIO 186 may be counted toward the upper division major requirement. Cross Listed: ENVS 186B; only one may be counted for credit.
Credit/No Credit
BIO 186C. Introduction to Health Careers Seminar.  1 Unit
Term Typically Offered: Fall, Spring

Designed for pre-health professional students who are in the process of researching traditional and non-traditional health professions and careers. This course consists of at least 10 seminars presented by various practicing health professionals, health professional students, and health professional school admissions officers. Topics vary each semester. One hour per week.
Credit/No Credit

BIO 187. Advanced Cell Biology.  4 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Spring only

Advanced cellular and molecular biology of eukaryotic cells. Comparison to prokaryotic organism will be made as needed to illustrate key concepts. Emphasis will be placed on cellular functions and utilize two or more cellular systems; including cell to cell communication, regulation of gene expression, uptake and secretion, regulation of cytoskeletal configuration, cell migration and cellular reproduction. Lecture two hours, laboratory six hours.

BIO 188. Evolution.  3 Units
Prerequisite(s): BIO 184 or instructor permission.
Term Typically Offered: Fall, Spring

General survey of evolutionary processes: mechanisms of evolutionary change, adaptation and history of life. Designed for biological sciences majors. Lecture three hours.

BIO 194. Biology-Related Work Experience.  6 - 12 Units
Term Typically Offered: Fall, Spring

Supervised employment in a biology or biology-related company or agency arranged through the Department of Biological Sciences and the Cooperative Education Program office. Requires preparation of application packet, completion of a three to six month, full-time or part-time work assignment, and a written report.

Note: Open only to upper division or graduate students with appropriate preparation. Consent of Department Cooperative Education Committee required, and Committee will determine the number of units to be granted. Students may enroll for no more than 12 total units, and units may not be used to meet biology major or graduate course work requirements.
Credit/No Credit

BIO 195. Biological Internship.  1 - 2 Units
Prerequisite(s): Department chair and instructor (representing the appropriate preprofessional discipline) permission.
Term Typically Offered: Fall, Spring

Supervised work-learn experience in biology with a public or private organization. Up to 4 units may be taken. No more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the biological sciences upper division major requirement.
Credit/No Credit

BIO 195D. Dental Internship.  1 - 2 Units
Prerequisite(s): Department chair and Instructor (representing the appropriate preprofessional discipline) permission.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in the medical-related and business-related aspects of dentistry. Includes a volunteer experience in the community. No more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the biological sciences upper division major requirement.
Note: 1 unit = 40 hours of participation/semester and 2 units = 80 hours of participation/semester; May be repeated for up to 4 units of credit.
Credit/No Credit

BIO 195M. Medical Internship.  2 Units
Prerequisite(s): Department Chair, Instructor and Placement Agency’s permission required.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in multiple aspects of health care. Includes a volunteer experience in the community, supplemental readings, and a presentation on current issues in medicine and health education. No more than 2 units of BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.
Note: 80 hours of participation/semester
Credit/No Credit

BIO 195P. Pharmacy Internship.  1 - 2 Units
Prerequisite(s): Department Chair, Instructor, and Placement Agency permission required.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in pharmacy. Includes a volunteer experience in the community. No more than 2 units from BIO 195, BIO 197 and Bio 199 combined can be applied to the biological sciences upper division major requirement. May be repeated for up to 4 units of credit. 1.0-2.0 units (40-80 hours of participation/semester).
Credit/No Credit

BIO 195T. Teaching Internship.  1 - 2 Units
Prerequisite(s): Department chair and instructor permission.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in K-12 teaching. Includes regular meetings with supervising teacher and submission of a field experience journal. May be repeated for credit.
Note: No more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the biological sciences upper division major requirement.
Credit/No Credit

BIO 197A. Laboratory Teaching Assistant.  1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Supervised experiences will include aspects of laboratory preparation and aspects of teaching biology laboratory courses. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of professor and Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.
BIO 197B. Laboratory Techniques. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Supervised laboratory experiences for advanced students in the organization and techniques for operation of a basic sciences laboratory. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of professor and Department Chair. 
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

BIO 197C. Co-curricular Activities in Biology. 1 - 2 Units
Term Typically Offered: Fall, Spring

Students may earn BIO 197C credit by participating as tutors and/or section or discussion leaders for biological sciences classes or teaching as voluntary instructors or tutors in K-12 courses or programs offered by other community organizations. Participation requires four to eight hours weekly. Admission requires approval of professor and Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

BIO 197D. Advanced Laboratory Exploration. 1 - 2 Units
Prerequisite(s): BIO 197A and instructor permission.
Term Typically Offered: Fall, Spring

Advanced, supervised experiences that explore the science behind laboratory experiences and discussion regarding aspects of specific laboratories that promote understanding of scientific content. Conferences and laboratory experiences four to eight hours weekly; written assignments and/or oral presentations required. Admission requires approval of professor and Department Chair.
Note: No more than 2 units from BIO 195, BIO 197, BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

BIO 197E. Intermediate Lab Techniques. 1 - 2 Units
Prerequisite(s): BIO 197B and instructor or Department Chair permission
Term Typically Offered: Fall, Spring

Supervised laboratory experiences for skilled students in the organization and techniques for operation of a basic sciences laboratory. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of instructor and Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

BIO 197F. Advanced Lab Techniques. 1 - 2 Units
Prerequisite(s): BIO 197B and instructor permission.
Term Typically Offered: Fall, Spring

Advanced supervised laboratory experiences for skilled students in the organization and techniques for operation of a basic sciences laboratory. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of instructor and Department Chair.
Note: May be taken more than once; no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

BIO 198A. Honors Proseminar and Research. 2 Units
Prerequisite(s): Open only to honors students in biological sciences who have an overall GPA of 3.25 and a minimum of 3.0 GPA in biology courses (at least six units of upper division biology excluding BIO 106, BIO 108, BIO 194, BIO 195, BIO 197 and BIO 199).
Term Typically Offered: Fall, Spring

Contemporary topics in biology selected by students in the course will form the basis for an introduction to scientific journals, the scientific method, and research as a professional pursuit. Each student develops a refined research proposal and prepares a seminar summarizing the proposal and the current state of knowledge in the topic area. Students will develop and refine their methodology under the direction of a faculty sponsor.

BIO 198B. Honors Research and Seminar. 2 Units
Prerequisite(s): BIO 198A.
Term Typically Offered: Fall, Spring

Directed research involving completion of an independently conducted research project for which a proposal and methodology was developed in BIO 198A. Data collection, summary and analysis, and formulation of conclusions based on the data will be discussed periodically with a faculty sponsor. Culmination will consist of preparation of an undergraduate thesis, poster and presentation of a seminar summarizing results and conclusions.
Note: Open only to honors students in Biological Sciences. Fee course.

Fee course.

BIO 199A. Introductory Undergraduate Research. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Student conducts introductory, independent laboratory or field research on an original question. Research must culminate in a formal report. Weekly meetings may be required. Students must have a research prospectus approved by faculty mentor and Department Chair.
Note: May be taken more than once, no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.
BIO 199B. Directed Readings. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Directed Readings on a topic in Biology culminating in a research paper. Admission requires submission of a prospectus approved by the faculty member under whom the work is to be conducted and the Department Chair.

Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

BIO 199C. Intermediate Undergraduate Research. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Student conducts independent laboratory or field research on an original question. Research must culminate in a formal report. Weekly meetings may be required. Students must have a research prospectus approved by faculty mentor and Department Chair.

Note: May be taken more than once; no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

BIO 199D. Advanced Undergraduate Research. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Advanced laboratory or field research on an original question. The research must culminate in a formal report. Weekly meetings may be required. Students must have a prospectus approved by the faculty member and the Department Chair.

Note: May be taken more than once; no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

BIO 214. Advanced Plant Ecology. 3 Units
Prerequisite(s): BIO 160.
Term Typically Offered: Fall, Spring

Fundamental properties of plant populations; population regulation; community productivity and structure; a study of ecotypic and ecoclinal variation in plant populations. Lecture one hour; laboratory and field six hours.

BIO 220. Introduction to Scientific Inquiry. 2 Units
Term Typically Offered: Fall, Spring

Graduate level introduction to scientific inquiry in the biological sciences. Students learn to apply the scientific method, critically evaluate the scientific literature, initiate their graduate project, and develop written and oral scientific presentation skills. Lecture two hours.

Note: Graduate Writing Intensive (GWI).

BIO 220A. Foundations in Scientific Inquiry. 3 Units
Term Typically Offered: Fall only

Introduces the foundations of scientific inquiry at the graduate level. Students learn how to apply the scientific method, obtain and critically evaluate the scientific literature, design experiments, interpret and present scientific data, and initiate their thesis research or project. Lecture three hours.

BIO 220B. Scientific Writing and Communication. 3 Units
Prerequisite(s): BIO 220A or instructor permission
Term Typically Offered: Spring only

Graduate level written and oral scientific presentation skills aimed at preparing students for the creation and delivery of their thesis/project proposal in the Biological Sciences. Topics include proper structure, organization, and tone in scientific writing, writing concisely, effective peer review and self-editing, and communicating complex scientific information in different forms. Lecture three hours.

BIO 221A. Cell and Molecular Methods and Techniques. 2 Units
Prerequisite(s): BIO 220 (may be taken concurrently).
Term Typically Offered: Spring only

Introduction to research methods in molecular and cellular biology. Students learn both cell and molecular techniques in the context of hypothesis-driven research to answer questions relating to a specific gene and cellular system. Experimental design and commonly used laboratory techniques will be explored. Two three hour laboratory periods. Fee course.

BIO 221B. Methods in Ecology, Evolution and Conservation. 2 Units
Prerequisite(s): BIO 167, BIO 229 (may be taken concurrently).
Term Typically Offered: Spring only

Introduction to research methods in ecology, evolution and conservation biology. Students learn field and laboratory techniques with a variety to taxa in a range of local ecosystems. Students will work with several faculty conducting research projects. Topics will include developing hypotheses, experimental design, study implementation, and statistical analyses. Students will be expected to present findings in oral and written form. Two three hour laboratory periods. Fee course.

BIO 221C. Exploration of Biological Methodology. 3 Units
Term Typically Offered: Fall, Spring

Intended for students in the MA grant proposal track, this course explores a selected topic from multiple scientific perspectives. A discovery-based laboratory project using cell and molecular techniques complimented with lectures, discussions and field trips that investigate the ecological, environmental, and evolutionary aspects of the same topic. The laboratory project will focus on a current biological topic (such as genetically modified organisms) in accordance with the instructor's interests and expertise. One hour lecture, six hours lab per week.

Note: Not open to students in the Master of Science in Molecular and Cellular Biology Concentration.

Field trip(s) may be required.

BIO 222. Molecular Biology. 3 Units
Prerequisite(s): BIO 184, CHEM 161.
Term Typically Offered: Fall, Spring

Processes and control of DNA replication, transcription, and translation developed from a consideration of the current literature. Lecture three hours.
BIO 223. Human Molecular Genetics.  3 Units
Prerequisite(s): BIO 184 and CHEM 161.
Term Typically Offered: Fall, Spring

In-depth study of the molecular basis of human disease, emphasizing current experimental approaches and technologies. Topics include the isolation and analysis of disease genes, the influence of teratogens and random environmental events on human embryonic development, the molecular and biochemical consequences of mutagenesis, and ethical issues that currently surround the field. Lecture 3 hours.

BIO 224. Genomics, Proteomics, and Bioinformatics.  3 Units
Prerequisite(s): BIO 184, BIO 222 and graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Examination of current approaches in structural genomics, functional genomics and proteomics, and the bioinformatics tools utilized to understand genome organization, the regulation of gene expression, gene function and the evolutionary relationships within and between genomes. Lecture two hours; laboratory 3 hours.

BIO 225. Stem Cell Biology and Manufacturing Practices.  1 Unit
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Graduate level introductory course in human stem cell biology with specific emphasis on adult, embryonic, and induced pluripotent stem cells. Topics will include how stem cells are isolated or generated, how they are cultured, and how they are used for regenerative therapies. In addition, students will learn about Good Manufacturing Practice (GMP) and how to manufacture human stem cells.

BIO 227. Development and Regenerative Medicine.  3 Units
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Examines the processes of cellular development in the embryo and adult with a focus on stem cells. Stem cells will be studied at the biochemical, molecular, genetic, epigenetic, cellular and physiological level, with an emphasis on their roles in promoting organismal health and disease. Current research and clinical applications will be examined, along with the bioethics, policies and politics of their use.

BIO 245. Host/Pathogen Interactions.  3 Units
Prerequisite(s): BIO 121, BIO 139, BIO 184. Courses recommended but not required: BIO 144, BIO 149, BIO 180.
Term Typically Offered: Fall, Spring

Critical reading and discussion of current literature on host/pathogen interactions. Topics to be covered include: alteration of host intracellular trafficking, subversion of cell cytoskeleton for invasion, intracellular survival mechanisms, pathogen-induced cell killing, and evasion and subversion of the host immune system.

BIO 247. Contemporary Topics in Immunology.  2 Units
Prerequisite(s): BIO 149A or instructor permission.
Term Typically Offered: Fall, Spring

Readings and discussions of current literature emphasizing new field developments and controversies. Lecture two hours.

BIO 260. Advanced Ecology.  3 Units
Prerequisite(s): BIO 160 or equivalent.
Term Typically Offered: Fall, Spring

Principles and applications of theoretical and field ecology as they apply to populations, communities and ecosystems.

BIO 269. Behavioral Ecology.  3 Units
Prerequisite(s): BIO 160 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced study of animal behavior focusing on the life history consequences of social organization, spacing systems, sexual behavior, reproductive ecology, feeding ecology, competitive interactions and predator-prey interactions.

BIO 273. Advanced Fishery Biology and Management.  3 Units
Prerequisite(s): BIO 173 or instructor permission.
Term Typically Offered: Fall, Spring

Critical review and evaluation of current techniques and concepts relating to the management, protection, and improvement of fishery resources. Lecture three hours.

BIO 279. Conservation Biology and Wildlife Management.  3 Units
Prerequisite(s): BIO 160, or instructor permission.
Term Typically Offered: Spring only

Advanced study of human effects and management of ecological systems, including populations, communities, and ecosystems. Topics include population and biodiversity responses to human activities, endangered species management, reserve design, and restoration. Emphasis on the critical evaluation, review, and presentation of conservation literature and issues. Paired course with Bio 179. Note: Lecture two hours; laboratory and fieldwork three hours; meets in the same location with the same instructor as Bio 179; course cannot be taken concurrently with or after taking BIO 179; Bio 279 cannot be taken in the graduate program after completing Bio 179. Field Trip(s) may be required.

BIO 280. Advanced Molecular Biology.  4 Units
Term Typically Offered: Fall, Spring

Advanced examination of the structure of genes and genomes, the mechanisms by which they change, and the laboratory tools used to study and understand gene function. Analysis of the molecular mechanisms of gene expression, their regulation, phenotypes, and the tools used to study these processes. Application of molecular tools in medicine and biotechnology and the ethics of these approaches. Emphasis on the critical evaluation, review, and presentation of molecular biology research literature. Paired with Bio 180. Fee course. Note: Lecture two hours, laboratory six hours. Course requires Personal Protective Equipment.

Fee course.

BIO 282. Evolution.  3 Units
Prerequisite(s): Classified graduate standing in Biological Sciences
 Term Typically Offered: Fall only

Introduction to evolutionary concepts and perspectives and their application to a variety of topics outside of evolutionary biology through discussion of peer-reviewed literature. Students will develop skills through group discussion, writing and presentation.
BIO 283. Biogeography. 3 Units
Term Typically Offered: Fall, Spring

Study of the past and present plant and animal distributions, and the geologic, climatic and ecologic factors involved in their migration, establishment and extinction. Lecture/discussions three hours.

BIO 285. Topics in Biology. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Readings and discussions of current literature emphasizing new developments and controversies in a comparatively narrow range of biological topics. Topics will vary with each offering, encompassing one recognized specialty in biology. May be repeated for credit when the topics vary.

BIO 293. Research Conference. 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Presentation and discussion of graduate student and faculty research and current literature with emphasis on critical evaluation of research design, data analysis and presentation techniques.

Note: Discussion two hours. May be taken twice for credit. Only two units may be applied to the University's requirement for 200-level courses; May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 294A. Seminar in Molecular and Cellular Biology. 1 Unit
Prerequisite(s): Student must be a Biology major at the master's level to enroll in this class and/or have instructor permission.
Term Typically Offered: Fall, Spring

Review and discussion of scientific literature in cell and molecular biology. Seminar topics will vary by semester.

Note: May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 294B. Seminar in Ecology, Evolution and Conservation. 1 Unit
Prerequisite(s): Student must be a Biology major at the master's level to enroll in this class and/or have instructor permission.
Term Typically Offered: Fall, Spring

Review and discussion of scientific literature in ecology, evolution, and conservation biology. Seminar topics will vary by semester.

Note: May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 294C. Seminar in Scientific Communication. 1 Unit
Prerequisite(s): Student must be a Biology major at the master's level to enroll in this class and/or have instructor permission. Graded: Credit / No Credit. Units: 1.0.
Term Typically Offered: Fall, Spring

Review, discussion, and evaluation of scientific communication skills and techniques, with emphasis on oral presentation of the thesis or project proposal and delivery of the graduate exit seminar. Prerequisite: Student must be a Biology major at the master's level to enroll in this class and/or have instructor permission.

Credit/No Credit

BIO 297A. Teaching Biology Seminar. 1 Unit
Prerequisite(s): Acceptance in the GTA Program or instructor permission.
Term Typically Offered: Fall only

Highly recommended training for graduate students who wish to participate in the Department's Graduate Teaching Associate (GTA) Program and others interested in teaching biology. Weekly seminar/discussion session covers educational theory, practical instructional strategies, and faculty policies and regulations for teaching biology courses, with a focus on laboratories. Lecture/discussion.

Credit/No Credit

BIO 297B. Laboratory Teaching. 1 Unit
Prerequisite(s): Acceptance in the GTA Program or instructor permission.
Term Typically Offered: Fall, Spring

Training for graduate students admitted to the Graduate Teaching Associate (GTA) Program. Students assist in teaching three hours of biology laboratory weekly under the supervision of a laboratory instructor. Laboratory three hours. Not applicable toward 18 unit 200-level coursework requirement.

Credit/No Credit

BIO 299. Problems in Biological Sciences. 1 - 4 Units
Term Typically Offered: Fall, Spring

Library research, short-term original research, technique development, or thesis research site selection and preliminary field observations. Culminating experience will be in the format of a scientific paper, annotated bibliography, demonstration of technique mastery, or oral presentation. Enrollment requires classified graduate status and approval of the project by a faculty supervisor and the Department Chair.

Credit/No Credit

BIO 500. Master's Thesis. 6 Units
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree. Should be taken in final semester prior to the completion of all requirements for the degree. Pre-requisite: Advanced to candidacy and chair permission of his/her thesis committee.

BIO 502. Master's Project. 3 Units
Term Typically Offered: Fall, Spring

Completion of a written project based on a research problem in biology approved for the MA in Biological Sciences. Should be taken in final semester prior to the completion of all requirements for the degree.

BIO 633. Human Gross Anatomy for Physical Therapists. 3 Units
Prerequisite(s): BIO 22 or instructor permission.
Corequisite(s): PT 600, PT 602, PT 608, PT 630.
Term Typically Offered: Fall, Spring

Study of the gross anatomy of selected regions of the human body. Emphasis will be placed on musculoskeletal, neurovascular and anatomy of the joints of the back, thoracic wall, abdominal wall, upper limb and lower limb. Anatomical relationships will be reinforced through study of cross-sectional anatomy. Lecture two hours; lab three hours.

Note: Course designed for students enrolled in the Doctor of Physical Therapy Program.
Business Administration (BUS)

BUS 162. Project Management. 3 Units
Prerequisite(s): MGMT 102.
Term Typically Offered: Fall, Spring

Processes, methodologies, tools, techniques, software, economic analysis, and life-cycle costing for managing different phases of projects. Emphasis on effective management of projects to achieve operational, managerial, and strategic goals of organizations.

Business Honors (BHON)

BHON 102. Business Communication. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Provides basic concepts for the understanding and practice of communication for managers and professionals. Examines the use of language and conversations in business settings and their role in coordinating actions, resolving breakdowns in work performance, and providing customer satisfaction. Topics include professional styles and formats of business writing and development of competence in business conversation skills (written, electronic and oral).

BHON 103. Business Legal Environment. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Investigates substantive law and stresses critical thinking and analytical evaluation of contemporary business legal issues. Identifies ethical concerns and addresses potential legal problems. Topics include an introduction to the legal system, court procedures, contracts and sales, real and personal property, labor and employment law, product liability, and the government regulation of business.

BHON 104. Fundamentals of Organizational Behavior. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

The course provides students frameworks to deal and work with members of work organizations, and focuses on how individual, group and organization-level factors influence employee attitudes and behaviors. The course further discusses challenges people face in today's dynamic work environment and global settings.

BHON 105. Introduction to Management Information Systems. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Explores the application of information technology in the organizational environment to assist in managerial decision making. Examines the alignment of IT and business strategy.

BHON 106. Business Data Analysis. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Applies statistical methods to solve business problems and inform managerial decision making. Topics include data analysis, statistical reasoning, model building and communication of statistical results. A statistical computer package is used in this course.

BHON 107. Business Finance. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Study of principles of finance and their application to typical financial problems of business enterprises. Topics include financial analysis, management of working capital, capital budgeting, long-term financing, dividend policy, internal financing, and time value of money.

BHON 108. Fundamentals in Marketing. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

An introduction to marketing concepts and principals. Examines the marketing function, its relationships with other business functions, and its role in the US and global economies.

BHON 109. Operations Management. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Introduces the basic concepts and methods used to analyze and improve operation performance in manufacturing and service organizations. Topics include operations strategy, process design and capacity management, inventory management, supply chain management, and operations planning and control.

BHON 120. Business Intelligence. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Focuses on enterprise problem solving and decision making using information technology, and data and financial analyses for mission critical and integral applications in planning and control. Alternative solutions are examined and evaluated for their effectiveness in achieving results.

BHON 130. Value Chain and Supply Chain Management. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Methods used for developing effective organizational value chains that integrate strategic planning, procurement, R&D, production, warehousing, distribution, and customer service to support business strategy. Includes critical decisions surrounding various organizational stakeholders, such as customer and supplier management, and the movement of goods and information throughout a supply chain network.

BHON 140. Enterprise Resource Planning and Infrastructure. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Examines the design, planning, implementation and impact of enterprise-wide systems on the organization and infrastructure. Focuses on the integration and coordination of all facets of business, including production, accounting, finance, human resources, and marketing to improve the organization’s resource planning, and management and operational control.
CHEM 1E. General Chemistry for Engineering. 4 Units
Prerequisite(s): High school chemistry and college algebra; sufficient performance on the college algebra diagnostic test, or equivalent; passing score on a standardized Chemistry diagnostic exam given prior to each semester, or a minimum grade of "C" in CHEM 4.
Term Typically Offered: Fall, Spring, Summer

A one-semester chemistry course for engineering students covering the fundamental principles and concepts of chemistry important to engineering applications. Lecture topics include atomic and molecular structure, solution chemistry, equilibrium, oxidation-reduction, thermochemistry; intermolecular forces; electrochemistry; radiochemistry; polymers; metallic bonding and alloys; chemical diffusion and kinetics. Lecture three hours, Lab three hours.
Note: Enrollment in this course is restricted to engineering majors.

CHEM 4. Chemical Calculations. 3 Units
Prerequisite(s): High school algebra and college algebra; sufficient performance on the college algebra diagnostic test, or equivalent.
Term Typically Offered: Fall, Spring, Summer

Introductory chemistry for students who plan to major in a scientific field. Appropriate for students desiring to prepare themselves for Chemistry 1A. Emphasizes chemical nomenclature and techniques of chemical problem solving. Topics covered include: dimensional analysis; conversions between measuring units; weight, mole and chemical equations; density; elementary gas laws; heat and temperature; elementary acid and base chemistry; oxidation and reduction; solutions. Three hours lecture.

CHEM 6A. Introduction to General Chemistry. 5 Units
Prerequisite(s): One year high school algebra; high school chemistry recommended.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring

Structure of atoms, molecules and ions; their interactions including stoichiometry, equilibria, and oxidation-reduction. Does not fulfill the requirements for more advanced study in chemistry and cannot be counted toward a major or minor in chemistry. Lecture three hours, discussion one hour, laboratory three hours.
CHEM 6B. Introduction to Organic and Biological Chemistry. 5 Units
Prerequisite(s): CHEM 1A or CHEM 6A, or a high school chemistry course and passing a qualifying exam given in the first laboratory period.
Term Typically Offered: Fall, Spring
Introduction to structure and chemical and physical properties of the major classes of organic compounds; introduction to the structure, property and roles of biological polymers such as polysaccharides, proteins (including enzymes) and nucleic acids; introduction to the fundamental metabolic pathways of energy metabolism. Does not fulfill the requirement for more advanced study in chemistry and cannot be counted toward a major or minor in chemistry. Lecture three hours; discussion one hour; laboratory three hours.
Note: This course requires personal protective equipment (PPE) and safety training as part of the course occurs in a laboratory.

CHEM 20. Organic Chemistry Lecture--Brief Course. 3 Units
Prerequisite(s): CHEM 1B.
Term Typically Offered: Fall, Spring, Summer
Basic principles of organic chemistry. Recommended for students majoring in life-sciences, but not recommended for preprofessional students.

CHEM 20L. Introductory Organic Chemistry Laboratory. 1 Unit
Prerequisite(s): CHEM 20; CHEM 20 may be taken concurrently.
Term Typically Offered: Fall, Spring
Basic organic experimental techniques. Experimental topics include: melting points, purification of solids, distillation, chromatography, extraction, and functional group qualitative analysis. Specifically designed for Biological Sciences majors and others who want to meet the Chemistry minor requirements for a lower division organic laboratory. Laboratory three hours.

CHEM 24. Organic Chemistry Lecture I. 3 Units
Prerequisite(s): CHEM 1B.
Term Typically Offered: Fall, Spring, Summer
Introduction to the basic principals of organic chemistry, including nomenclature, properties and reactions of various classes of organic compounds. Reaction mechanisms will be emphasized.
Note: Required for chemistry majors and recommended for preprofessional students.

CHEM 25. Organic Chemistry Laboratory. 3 Units
Prerequisite(s): CHEM 24, CHEM 124; CHEM 124 may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer
Basic organic experimental techniques including the preparation, separation, purification and identification of organic compounds. Discussion one hour, laboratory six hours.

CHEM 31. Quantitative Analysis. 4 Units
Prerequisite(s): CHEM 1B.
Term Typically Offered: Fall, Spring
Chemical measurements including associated statistics, chemical equilibrium in aqueous solutions, volumetric analysis, and an introduction to spectrophotometry and chromatography. Lecture two hours, laboratory six hours.

CHEM 89. Introduction to Undergraduate Research. 1 - 3 Units
Term Typically Offered: Fall, Spring
Introduction to undergraduate research which requires students to become familiar lab safety policies, SDSs, and SOPs in the research lab (if applicable), attend group meetings (if applicable) and learn methods of experimental, educational and/or computational design. Students must show proficiency in these requirements in order to receive a final grade.
Credit/No Credit

CHEM 101. Science in the Public Debate. 3 Units
Prerequisite(s): ENGL 20
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
This course provides students with an introduction to the history, philosophy and practice of modern science, and examines how the social environment influences scientific analysis. Students apply this understanding to the critical evaluation of scientific sources in current social debates surrounding scientific topics.
Note: Does not fulfill credit requirements for the major or minor in chemistry.

CHEM 106. Chemical Concepts. 3 Units
Prerequisite(s): GEOL 8 or BIO 7 and ENGL 20 or an equivalent second semester composition course. Fee course.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
Principles and concepts of chemistry with applications in the home and environment. Satisfies the upper division chemistry requirement for the multiple-subject teaching credential. Lecture one hour, discussion and activity four hours. Does not fulfill credit requirements for the major or minor in chemistry.
Fee course.

CHEM 110. Inorganic Chemistry Lecture. 3 Units
Prerequisite(s): CHEM 125, CHEM 140B or CHEM 142 instructor permission; CHEM 140B may be taken concurrently, however, students are encouraged to complete CHEM 140B and CHEM 141 first.
Corequisite(s): CHEM 110L.
Term Typically Offered: Fall only
Application of atomic structure, the periodic law, molecular structure and bonding principles, electrochemical principles and other selected models and concepts to theoretical and descriptive inorganic chemistry. Physical and chemical properties of selected elements and inorganic compounds are studied.

CHEM 110L. Advanced Inorganic Chemistry Laboratory. 2 Units
Prerequisite(s): CHEM 125, ENGL 20 or an equivalent second semester composition course.
Corequisite(s): CHEM 110.
Term Typically Offered: Fall only
Preparation, purification and instrumental studies of inorganic compounds. Instrumental and experimental techniques will include EPR, magnetic susceptibility, FTIR, UV-VIS spectroscopy and inert atmosphere techniques.
CHEM 124. Organic Chemistry Lecture II. 3 Units
Prerequisite(s): CHEM 24 or instructor permission; concurrent enrollment in CHEM 25 recommended.
Term Typically Offered: Fall, Spring, Summer

Continued discussion of the principals of organic chemistry, including nomenclature, properties, and reactions of various classes of organic compounds and spectroscopic analysis. Reaction mechanisms will be emphasized.

CHEM 125. Advanced Organic Chemistry Laboratory. 3 Units
Prerequisite(s): CHEM 25, CHEM 124, ENGL 20 or an equivalent second semester composition course.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Focuses on advanced organic laboratory techniques and instrumental methods of analysis. Not intended for pre-health professional majors. Discussion one hour, laboratory six hours.

CHEM 126. Physical Organic Chemistry. 3 Units
Prerequisite(s): CHEM 124, and CHEM 140B or CHEM 142, or instructor permission.
Corequisite(s): CHEM 140B or CHEM 142 may be taken concurrently.
Term Typically Offered: Fall, Spring

Study of mechanistic organic chemistry, the physical tools used to study reaction mechanisms, and the relationship between structure and reactivity. Topics include bonding theories, stereoelectronic effects, transition state theory, thermodynamics, kinetic analysis, isotope effects, linear free energy relationships, and application of frontier molecular orbital theory to examine reactions including pericyclic reactions.
Note: Students who have taken CHEM 126 at Sacramento State cannot take CHEM 226 for credit.

CHEM 128. Organic Synthesis. 3 Units
Prerequisite(s): CHEM 124.
Term Typically Offered: Spring only

Application of functional group reactions to multistep syntheses. Recently developed synthetic methods and literature searching will be emphasized.

CHEM 133. Chemical Instrumentation. 4 Units
Prerequisite(s): CHEM 31, concurrent enrollment in CHEM 140B or completion of CHEM 142: ENGL 20 or an equivalent second semester composition course. Graded: Graded Student. Units: 4.0
Term Typically Offered: Fall, Spring

Modern instrumentation and methods for chemical analysis. Function of electronics and computers in instruments. Theory and use of instruments in the areas of electrochemistry, spectroscopy, mass spectrometry and chromatography. Lecture two hours, laboratory six hours.

CHEM 140A. Physical Chemistry Lecture I. 3 Units
Prerequisite(s): CHEM 1B, CHEM 24, CHEM 31, MATH 32, PHYS 5A, PHYS 5B, or PHYS 11A, PHYS 11B, PHYS 11C; PHYS 11B may be taken concurrently.
Term Typically Offered: Fall only

Introduction to chemical thermodynamics and kinetics.

CHEM 140B. Physical Chemistry Lecture II. 3 Units
Prerequisite(s): CHEM 140A.
Term Typically Offered: Spring only

Introduction to molecular quantum chemistry, structure of matter, molecular spectroscopy, and statistical thermodynamics.

CHEM 141. Physical Chemistry Laboratory. 3 Units
Prerequisite(s): ENGL 20 or an equivalent second semester composition course; CHEM 140A, CHEM 140B or CHEM 142, instructor permission; CHEM 140B may be taken concurrently.
Term Typically Offered: Fall, Spring

Selected exercises in the practice of physio-chemical laboratory methods. Lecture one hour, laboratory six hours.

CHEM 142. Introduction to Physical Chemistry. 4 Units
Prerequisite(s): CHEM 1B, CHEM 24, PHYS 5A, PHYS 5B, MATH 31.
Term Typically Offered: Fall, Spring

Introductory presentation of the theoretical and practical aspects of thermodynamics, quantum chemistry, spectroscopy, and kinetics. As time permits, other topics will be: solution chemistry, hydrodynamics, electrochemistry, and crystallography.
Note: Not acceptable for the BS or the BA without concentration.

CHEM 145. Applications of Computational Chemistry. 3 Units
Prerequisite(s): CHEM 140A and CHEM 140B or CHEM 142, or instructor permission.
Term Typically Offered: Fall only – odd years

Brief introduction/background in computational theory, with emphasis on chemical/biochemical applications. Demonstration/instruction of widely used modeling/computational software. Covering techniques including molecular mechanics, semi-empirical methods and "ab initio" methods. Application of computational methods to thermodynamics, kinetics, spectra, electrochemistry, molecular properties. Lecture three hours.
Note: 1) CHEM 245 students will complete an additional research project beyond that expected of students in CHEM 145; 2) Students who have taken CHEM 145 at Sacramento State cannot take CHEM 245 for credit.

CHEM 160A. Structure and Function of Biological Molecules. 3 Units
Prerequisite(s): CHEM 124; MATH 26A or MATH 30 is recommended. Fall only.
Term Typically Offered: Fall only

The chemistry and biochemistry of amino acids, proteins, nucleic acids, lipids and carbohydrates. Also includes enzyme kinetics, the structure and function of biological membranes and discussion of some common laboratory methods. Lecture three hours.

CHEM 160B. Metabolism and Regulation of Biological Systems. 3 Units
Prerequisite(s): CHEM 160A or equivalent course; one year of organic chemistry. Spring only.
Term Typically Offered: Spring only

The bioenergetics and regulation of anaerobic and aerobic metabolic pathways. Major topics include glycolysis, Kreb's cycle, fatty acid and amino acid oxidation, lipid biosynthesis and photosynthesis. Particular emphasis is given to pathway regulation and integration. Lecture three hours.
CHEM 161. General Biochemistry. 3 Units
Prerequisite(s): CHEM 20 or CHEM 124; one year of biological science is recommended.
Term Typically Offered: Fall, Spring, Summer

Introduction to the structure and function of biological molecules (carbohydrates, lipids, proteins, nucleic acids, enzymes and hormones), enzyme kinetics, the structure and function of membranes, and the bioenergetics and regulation of major anaerobic and aerobic metabolic pathways.

CHEM 162. General Biochemistry Laboratory. 3 Units
Prerequisite(s): CHEM 31; CHEM 160A or CHEM 161 (either CHEM 160A or CHEM 161 may be taken concurrently); ENGL 20 or an equivalent second semester composition course.
Term Typically Offered: Fall, Spring

Introduction to fundamental laboratory techniques for the purification and analysis of biological molecules, including chromatographic separation of amino acids and proteins, electrophoretic separation of proteins and nucleic acids, enzyme kinetics, and basic bioinformatics. Discussion one hour, laboratory six hours.

CHEM 164. Advanced Biochemistry Laboratory. 3 Units
Prerequisite(s): CHEM 162 or equivalent; ENGL 20 or an equivalent second semester composition course.
Term Typically Offered: Fall, Spring

Capstone course which emphasizes biochemical laboratory experimental design and trouble-shooting skills. Common biochemistry laboratory techniques are applied in semester-long individual student projects. Discussion one hour, laboratory six hours.

CHEM 189A. Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 or equivalent
Term Typically Offered: Fall, Spring

Directed undergraduate research involving a project that requires use of chemical literature and experimental design. A comprehensive written report and/or scientific poster must be submitted to receive a final grade. Note: Only three units of CHEM 189A-C may be applied toward the major requirement in chemistry for the BA or BS degrees.

CHEM 189B. Intermediate Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 or equivalent and CHEM 189A
Term Typically Offered: Fall, Spring

Continuing directed undergraduate research involving a project with emphasis on experimentation and data analysis. A comprehensive written report and/or scientific poster must be submitted to receive a final grade. Note: Only three units of CHEM 189A-C may be applied toward the major requirement in chemistry for the BA or BS degrees.

CHEM 189C. Advanced Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 and CHEM 189B
Term Typically Offered: Fall, Spring

Culminating directed undergraduate research with emphasis on comprehensive data analysis and formulation of conclusions. A comprehensive written report and/or scientific poster must be submitted to receive a final grade. Note: Only three units of CHEM 189A-C may be applied toward the major requirement in chemistry for the BA or BS degrees.

CHEM 189D. Culminating Advanced Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 and CHEM 189C
Term Typically Offered: Fall, Spring

Extension of culminating undergraduate research with emphasis on finalizing data analysis and writing experimental methods for potential publication. A comprehensive written report (if a scientific poster was completed in 189C) and/or scientific poster (if a written report was completed in 189C) must be submitted to receive a final grade. Credit/No Credit

CHEM 194. Chemistry-Related Work Experience. 6 - 12 Units
Prerequisite(s): Open only to upper division students and consent of Department Chair. Units may not be applied toward a major in Chemistry or Biochemistry.
Term Typically Offered: Fall, Spring

Supervised employment in a Chemistry related company or agency. Placement is arranged through the Department and the Cooperative Education Program office. Requires completion of a 3-6 month work assignment and a written report. Credit/No Credit

CHEM 196B. Biochemistry of SARS-CoV-2. 3 Units
Prerequisite(s): CHEM 161 or CHEM 160A
Term Typically Offered: Spring only

This course will survey of the macromolecules of the coronavirus SARS-CoV-2, explore their function in relation to the viral life cycle, and examine the biochemistry of established and emerging Covid-19 therapeutics and vaccines. Learning activities will involve a significant amount of primary literature analysis, bioinformatics exercises and brief lectures.

CHEM 198. Senior Research. 3 Units
Prerequisite(s): One upper division chemistry laboratory class, ENGL 20 or an equivalent second semester composition course and instructor and department chair permission.
Term Typically Offered: Fall, Spring

The student will conduct an independent study of a chemical research topic that is based on experimental techniques or advanced computer modeling. Significant use of chemical literature and information retrieval is required. A well-written, comprehensive, and well-documented final report must be submitted to receive a final grade. A weekly seminar is required. Seminar one hour, laboratory activities are a minimum of six hours per week.

CHEM 198H. Chemistry Honors Thesis. 3 Units
Prerequisite(s): Open only to students who meet the Chemistry Honors Program criteria; CHEM 198 may be taken concurrently.
Term Typically Offered: Spring only

Completion of an undergraduate honors thesis and attendance at chemistry seminars. Students will develop a written thesis containing background, methodology, results, and discussion of an experimental or computational research project involving their own original data.
CHEM 200. Research Methods in Chemistry. 3 Units  
Prerequisite(s): Must be a Chemistry graduate student or have instructor permission.  
Term Typically Offered: Fall, Spring  
This course is designed to improve the ability of graduate students to research and interpret the chemical literature. Students work through a series of exercises in preparation for a major writing project such as a thesis proposal or a thesis chapter/section. Exercises include analysis of primary research articles, peer review of student writing samples, and presentation of scientific information. These activities will improve students' understanding of how scientific questions are developed and posed through proposals and dissemination of research results.

CHEM 220. Spectrometric Identification of Compounds. 3 Units  
Term Typically Offered: Fall only  
Theory, interpretation, and application of ultraviolet, infrared, nuclear magnetic resonance and mass spectra for the elucidation of organic compounds.

CHEM 226. Physical Organic Chemistry. 3 Units  
Prerequisite(s): Enrollment in Chemistry master's degree program or instructor permission.  
Term Typically Offered: Fall, Spring  
Study of mechanistic organic chemistry, the physical tools used to study reaction mechanisms, and the relationship between structure and reactivity. Topics include bonding theories, stereoelectronic effects, transition state theory, thermodynamics, kinetic analysis, isotope effects, linear free energy relationships, and application of frontier molecular orbital theory to examine reactions including pericyclic reactions.  
Note: Students who have taken CHEM 126 at Sacramento State cannot take CHEM 226 for credit.

CHEM 228. Applications of Computational Chemistry. 3 Units  
Term Typically Offered: Fall only – odd years  
Brief introduction/background in computational theory, with emphasis on chemical/biochemical applications. Demonstration/instruction of widely used modeling/instruction of software. Covering techniques including molecular mechanics, semi-imperical methods and "ab initio" methods. Application of computational methods to thermodynamics, kinetics, spectra, electrochemistry, molecular properties. Lecture three hours.  
Note: 1) CHEM 245 students will complete an additional research project beyond that expected of students in CHEM 145; 2) Students who have taken CHEM 145 at Sacramento State cannot take CHEM 245 for credit.

CHEM 250. Selected Topics in Chemistry. 3 Units  
Prerequisite(s): Enrollment in MS Chemistry graduate program or instructor permission.  
Term Typically Offered: Fall, Spring  
Intensive coverage of one or more advanced topics in chemistry. A variety of learning/teaching methodologies may be employed including lecture, team projects, computer modeling, oral presentations and poster projects. May be team-taught.  
Note: May be team-taught. May be repeated once for credit if topics are different.

CHEM 251. Topics in Interdisciplinary Chemistry. 3 Units  
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.  
Term Typically Offered: Fall, Spring  
Lecture course focusing on interdisciplinary topics in chemistry and related fields. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 252. Topics in Synthetic Chemistry. 3 Units  
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.  
Term Typically Offered: Fall, Spring  
Lecture course focusing on synthetic chemistry. Focus may be on biochemical, inorganic, or organic synthetic chemistry. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 253. Topics in Applied Chemistry. 3 Units  
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.  
Term Typically Offered: Fall, Spring  
Lecture course focusing on applications of chemistry to a variety of fields. Areas of focus may include biological, environmental, materials, and pharmaceutical applications. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 254. Topics in Physical Chemistry. 3 Units  
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.  
Term Typically Offered: Fall, Spring  
Lecture course focusing on topics in physical chemistry. Areas of focus may include content areas such as quantum mechanics, physical/organic or biophysical chemistry, an/or in-depth treatment of structure analysis and determination. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 255. Topics in Chemistry Education. 3 Units  
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.  
Term Typically Offered: Fall, Spring  
Intensive coverage of one or more advanced topics in chemistry. A variety of learning/teaching methodologies may be employed, including lecture, team projects, computer modeling, oral presentations and poster projects. May be team-taught.
CHAD 30. Human Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Interdisciplinary study of human development with practical observations. Addresses physical, socio-cultural, intellectual and emotional aspects of growth and development from conception to death. A variety of field experiences will be required.

CHAD 30C. Human Development and Fieldwork in Community and Social Contexts. 3 Units
Prerequisite(s): CHAD 30 or CHAD 35, or the equivalent; CHAD 30 may be taken concurrently.
Term Typically Offered: Fall, Spring

This course aims to prepare students to become familiar with the operations of organizations serving children and adolescents in the community and identify professional opportunities in the field of child and adolescent development through class activities and 40 hours of fieldwork. Students will engage in directed field experiences in community and social settings and attend an on campus seminar. Students will translate theory into practice and reflect on experiences. Issues on equity and diversity within human development will be discussed.

Note: Fieldwork includes 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement; Service Learning may be required.

CHAD 31. Adult Supervision and Mentoring In Early Childhood Programs. 2 Units
Prerequisite(s): CHAD 30 or CHAD 35 or equivalent.
Term Typically Offered: Spring only

Study of research and exemplary practices in the supervision of early childhood teachers, other program staff, parents and volunteers. Content emphasizes adult learning.

CHAD 32. Administration and Supervision of Early Childhood Programs. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Fall only

Basic issues, procedures and practices in the administration and supervision of public and private schools. Requires administrative supervisory fieldwork in an early childhood program.
CHAD 35. Child and Adolescent Development. 3 Units

General Education Area/Graduation Requirement: Understanding Personal Development (E)

Term Typically Offered: Fall, Spring

This course examines development from conception through adolescence. Content will include development in physical, cognitive, social, linguistic, and emotional domains. Through activities such as observation and reflection, students will explore interactions among developmental pathways, individual differences, and contextual factors such as culture, family, race, gender, ability, and socioeconomic status.

CHAD 35E. Early Childhood Field Experience. 3 Units

Prerequisite(s): CHAD 35 or CHAD 30 or the equivalent. CHAD 35 may be taken concurrently.

Term Typically Offered: Fall, Spring

This course examines theory and research in human development as it applies to early childhood education settings (0-5 years). Concepts related to cognitive, social-emotional, linguistic, and physical development, establishing and maintaining high quality programming (e.g., optimal learning environments, observation, etc.), and influences on development (e.g., family, race, cultural perspectives) within these settings will be discussed. Fieldwork includes 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement.

Note: Fieldwork requirements include 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement; Service Learning may be required.

CHAD 35F. Human Development and Elementary Field Experience. 3 Units

Prerequisite(s): CHAD 35 or the equivalent; CHAD 35 may be taken concurrently.

Term Typically Offered: Fall, Spring

The purpose of this course is to examine theory and research in human development as it applies to the elementary classroom. Discussion topics include cognitive, social-emotional, physical and language development, multiple intelligence, special needs, characteristics of play and the impact on social and cognitive development. Influences integral to development (e.g., family, race, cultural perspectives) are also included. This class requires 40 hours of field experience at a designated elementary school site. Students must complete fingerprinting and TB prior to placement.

Note: Service Learning may be required.

CHAD 44. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units

Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.

Note: May be taken up to four times for credit (maximum 12 units of credit).

Credit/No Credit

CHAD 101. Career and Major Exploration in Child and Adolescent Development. 2 Units

Term Typically Offered: Fall, Spring

This course builds on lower-division major coursework and fieldwork to promote balanced scholarship and professionalism in the field of Child and Adolescent Development. Students will: 1) investigate their major and explore reading and writing in the discipline; 2) survey the breadth of professional opportunities, refine professional interests, and begin developing their professional portfolio; 3) engage in personal reflection to develop an individualized plan to guide their trajectory within the major in preparation for their future academic and/or professional goals. Pre-requisite: CHAD 30 or CHAD 35) and (CHAD 35F or CHAD 35E or CHAD 30C). CHAD 35F, CHAD 35E, or CHAD 30C may be taken concurrently. Must have 45 units completed.

Credit/No Credit

CHAD 123. Qualitative Methods in Human Development. 4 Units

Prerequisite(s): CHAD 30 or CHAD 35, or equivalent; CHAD 101. CHAD 101 may be taken concurrently.

Term Typically Offered: Fall, Spring

Introduction to qualitative research methods, their philosophical underpinnings, and their implications for understanding human development. The focus will be on identifying, interpreting, and designing qualitative research to study developmental processes. Attention will be given to methodological strategies used to document and analyze development in context, including participant observation field notes, interviews, documents, and artifacts, with implications for theory and practice. Activities include interpreting qualitative research, qualitative data collection and analysis, and communicating findings utilizing APA style.

Note: For CHAD majors, must be taken prior to completion of 90 units; completion of 45 total units credit

CHAD 128. Combined Research Methods in Human Development. 3 Units

Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.

Term Typically Offered: Fall, Spring, Summer

Introduction to qualitative and quantitative research methods and their philosophical underpinnings. Consider theoretical, methodological, and ethical issues in studying learning and developmental processes from interpretive and social constructivist perspectives. Think critically about the generation of research questions and hypotheses and design and conduct of research inquiry, with implications for theory, policy, and practice. Students learn to locate, understand, critique, conduct, and report research findings from multiple approaches and be introduced to APA style writing as a tool for scholarly communication.

CHAD 130. Parent Education. 3 Units

Term Typically Offered: Fall, Spring

Ways parent education may be conducted in Child Development programs to meet legislated requirements as well as parent needs. Attention will be given to parent education programs which serve children of different ages, diverse language and cultural backgrounds, and children with special needs. The rights and responsibilities of children, parents and teachers will be discussed. Discussion and participation in such classroom activities as panels, presentations, demonstrations and cooperative learning assignments.
CHAD 131. Language Development. 3 Units
Prerequisite(s): CHAD 133. CHAD 133 may be taken concurrently.
Term Typically Offered: Fall, Spring

This course examines current views on language development and the interrelations between the cognitive, socio-cultural, and linguistic components of this process. Emphasis will be on early language development (0-6 years) with some attention paid to the school years and adolescence.

CHAD 133. Quantitative Methods in Human Development. 4 Units
Prerequisite(s): CHAD 30, or CHAD 35, or equivalent; CHAD 101; CHAD 101 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to quantitative research methods in human development and their philosophical underpinnings. Major topics include structures, design, and conduct of research inquiry; the generation of research questions and hypotheses; and collection and analysis of data. Students will be challenged to think critically about methodological issues, engage in quantitative research and conduct analyses, and increase their ability to locate, understand, critique, apply, and report research findings. APA style will be introduced to support the development of scholarly communication and writing.
Note: For CHAD majors, must be taken prior to completion of 90 units; completion of 45 total units credit

CHAD 134. Development of Young Children as Mathematical and Scientific Thinkers. 3 Units
Term Typically Offered: Fall, Spring

This course offers an introduction to theory, research and practice related to the development of mathematical and scientific reasoning in young children. The course will focus on effective assessment, teaching and learning strategies for young children. This course introduces concepts aligned with the California Preschool Learning Foundations in Mathematics and Scientific Reasoning.

CHAD 135. Culture and Human Development. 3 Units
Prerequisite(s): CHAD 123. CHAD 123 may be taken concurrently.
Term Typically Offered: Fall, Spring

This course examines the relationship between culture and human development. Comparisons will be made between the epistemological principles of cross-cultural and cultural approaches to human development in order to explore their implications for developmental theory and research. Research studies will serve as a foundation for learning and reflecting about diversity in human experience, and the ways that diverse cultural contexts shape how individuals think, act, and engage with others in local and global settings.

CHAD 136. Developmental Experiences, Methods and Curriculum. 3 Units
Prerequisite(s): CHAD 123 (may be taken concurrently).
Term Typically Offered: Fall, Spring

This course examines theory, research, and exemplary curriculum and practices for children in preschool through the elementary grades, including content-specific connections between and among a variety of disciplines, (i.e., literacy, social studies, the arts, science and mathematics). A developmental perspective will frame discussions about fundamental curricular concepts, values, and principles of the subject matter disciplines. This course introduces concepts aligned with the California Preschool Learning Foundations or Common Core.

CHAD 137. Cognitive Development. 3 Units
Prerequisite(s): CHAD 133.
Term Typically Offered: Fall, Spring

This course overviews cognitive development from conception through adolescence with consideration of biological and sociocultural influences. Emphasis will be placed on evaluating the major theories of cognitive growth. The course will include lectures, discussions, and participation in classroom activities such as research presentations, demonstrations, and cooperative learning assignments.

CHAD 138. Social and Emotional Development. 3 Units
Prerequisite(s): CHAD 133.
Term Typically Offered: Fall, Spring

This course overviews social and emotional development from conception through adolescence with consideration of biological and sociocultural influences. Emphasis will be placed on evaluating the major theories of social and emotional growth. The course will include lectures, discussions, and participation in such classroom activities such as research presentations, demonstrations, and cooperative learning assignments.

CHAD 139. Educational Play: Theory and Practice. 3 Units
Term Typically Offered: Fall, Spring

This course examines the role of play in childrens development and learning with an emphasis on early childhood. It discusses theories, research, and applied perspectives to play, as well as principles for designing inclusive and developmentally appropriate play environments and activities that are also culturally and linguistically sustaining for all children. Students will explore how play helps children develop physically, socially, emotionally, cognitively and creatively through a variety of playful modes. Activities include discussions, presentations, demonstrations and cooperative learning assignments.

CHAD 140. Coordination of Early Childhood Programs. 3 Units
Prerequisite(s): CHAD 30 or CHAD 35 or equivalent
Term Typically Offered: Fall, Spring

Advanced methodology of coordinating early childhood programs, to include organization, staff development and community relations. Includes the functions of parents, aides, volunteers and varied early childhood organizational patterns.

CHAD 141. History of Childhood: International and Interdisciplinary Perspectives. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of what it means to be a child in today's world by comparing social constructions of childhood across the broad historical periods and in contrasting parts of the world. Exploration of cultural beliefs, values and practices of childhood in different historical, social, and economic contexts. Comparative approach provides a critical framework from which to analyze scholarly inquiry about how children develop in families, schools, and broader society. Course content will interest students from a broad array of majors.
CHAD 142. Development of Learning and Memory. 3 Units
Prerequisite(s): CHAD 30 or CHAD 35 or the equivalent
Term Typically Offered: Fall, Spring

This course provides an empirical and theoretical examination of the processes of learning and memory across developmental phases. Topics include the neuroscience of learning and memory, the origin and history of concepts and theories in learning and memory (e.g., behaviorist approaches), and applications of research on memory development to a variety of contexts (e.g., law, education, counseling).

CHAD 143. Mind and Brain in Developmental Context. 3 Units
Prerequisite(s): CHAD 30 or CHAD 35; Introductory Biology.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer

Investigation of the biological processes underlying child development, from conception through adolescence. Emphasis will be on the genetic, neurological, and endocrine processes related to cognition, social, and emotional development. Students will explore the bidirectional nature of psychobiological processes, with specific emphasis on the psychobiological mechanisms underlying the transaction between cultural, educational, and social-emotional related to educational, and mental and physical health functioning.

CHAD 144. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.

Note: May be taken up to four times for credit (maximum 12 units of credit).

Credit/No Credit

CHAD 145. Controversial Issues in Childhood Development, Education, and Social Policy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Discussion-based examination of controversial issues linking development, education, and cultural practice in which scholarly inquiry has substantial implications for social policy. Specific topics vary by semester and include topics of both historical relevance and contemporary debates. Content relevant to multiple disciplines including issues such as adolescent risk behavior, bilingual education, brain-based pedagogy, child care, children and the law, cultural diversity, developmental theory and educational practice, gender, literacy practices, motivation, parenting styles, school violence, special education, standardized testing, and technological change.

CHAD 146. Fostering Healthy Youth Development. 3 Units
Prerequisite(s): CHAD 30 or CHAD 35 equivalent
Term Typically Offered: Fall, Spring

This course will examine theory, research, and practice related to youth development, including developmental assets, well-being, civic engagement, resilience, empowerment, and positive youth development from middle childhood to emerging adulthood. Students will gain an understanding of how communities can support youth in developing towards their full potential. Identification of strategies and tools that promote youth development in a variety of contexts and cultures will be discussed. Activities include lecture, discussions, presentations, and cooperative learning assignments.

CHAD 147. Influences of Public Policy on Children & Adolescents. 3 Units
Prerequisite(s): CHAD 133 or CHAD 123. CHAD 133 or CHAD 123 may be taken concurrently.
Term Typically Offered: Fall, Spring

This course will provide students with an overview of US social policy and programs as they relate to children and adolescents. The policy process will be explored with attention paid to the role of empirical research, advocacy, and engagement of individuals and groups. Topics will include policies and programs that address poverty, education, families, ability, immigration, and criminal justice, among others. Students will analyze how policy integrates empirical research, meets their stated goals, and supports the development of diverse children.

CHAD 150. Literacy Development for Monolingual and Multilingual Children. 3 Units
Prerequisite(s): CHAD 123
Term Typically Offered: Fall, Spring

Students will investigate emergent literacy and literacy development of monolingual and multilingual young children from birth to eight, including developmental progressions and the science-based evidence related to foundational language and literacy knowledge. Other focal points will include associations with literacy and home-school connections, cultural influences (socioeconomic status, linguistic, etc.), social and linguistic justice, observation and assessment, theory to practice, and developmental strategies for supporting and understanding literacy development.

CHAD 153. Apprenticeship in Advanced Child Development. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Faculty mentors will meet with graduate and undergraduate apprentices individually or in small groups for guided discussions of assigned readings and/or research data analysis/collection endeavors. Prerequisite: Instructor permission.

Note: Readings will depend on the specific mentor’s research or scholarly interest; May be repeated up to four times for 12 units of credit, with a limit of 6 units applied towards the CHAD major requirements.
CHAD 156. Child and Adolescent Development in Context. 3 Units
Prerequisite(s): CHAD 35 or CHAD 30 (or equivalent)
Term Typically Offered: Fall, Spring

Investigation of the dynamic nature of child and adolescent development in the context of families, schools, and community. Students will gain an understanding of how issues in these contexts influence development and explore the dynamic relationships between contexts in promoting development. Attention will be paid to socioeconomic status as a context as well as the role of gender, race and ethnicity within contexts as they relate to development. Students will examine practices that strengthen collaboration between families, schools, and communities.

CHAD 157. Infant and Toddler Development and Care. 3 Units
Prerequisite(s): One of the following: CHAD 30 or CHAD 35, FACS 50, PSYC 148, or SWRK 125A.
Term Typically Offered: Fall, Spring

Research theory and practice are examined in relation to each area of infant and toddler development (conception through 24 months): Physical, social, emotional, cognitive, and perceptual. Individual differences and needs are stressed. Issues pertinent to individual and group care will be covered. Activities include lecture, discussion, and observations.

CHAD 172. Identity Development. 3 Units
Prerequisite(s): CHAD 30 or CHAD 35; CHAD 123 or CHAD 133; CHAD 123 or CHAD 133 may be taken concurrently
Term Typically Offered: Fall, Summer

This course will examine theory and research related to identity development among children, adolescents, and emerging adults. Students will gain an understanding of how identity varies as a function of gender, sexual orientation, income, education, race and ethnicity, abilities, and other factors and how these identities intersect and shape social interactions. In addition, focus will be on how identity shapes experiences of oppression, marginalization, privilege, and power. Methodologies used to understand identity development will also be explored.

CHAD 190. Capstone in Child and Adolescent Development. 3 Units
Prerequisite(s): CHAD 123, CHAD 133; CHAD 137 OR CHAD 138.
Term Typically Offered: Fall, Spring

As a culminating experience for the major, students blend professional and academic knowledge and experience. Students prepare for next professional steps, synthesize scientific knowledge of human development on a relevant topic of their choosing, and complete a related project with application in a community setting. Students complete 40 hours of fieldwork. Projects will be original, evidence-based, and address identified needs in the fieldwork setting. Course culminates in a community-invited senior presentation forum. Recommended to be taken in the final semester.

Note: Fieldwork includes 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement; Service Learning may be required.

CHAD 191. Early Childhood Education Practicum. 3 Units
Prerequisite(s): CHAD 123 and CHAD 133.
Term Typically Offered: Fall, Spring

Students will utilize classroom experiences to make connections between theory and practice and develop professional behaviors. Students will plan, organize, implement and evaluate classroom activities under the supervision of a CHAD faculty and a qualified early education professional. Reflective practice will be emphasized as students design, implement, and evaluate approaches, strategies, and techniques that promote development and learning. Completion of 120 hours of supervised practicum is required.

CHAD 194. Cooperative Education Experience. 3 Units
Prerequisite(s): Completion of 60 units total credit and instructor permission. May be taken four times for a maximum of 12 units credit.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student’s major field of study and academic credit. Students receive supervised employment in school districts, state and community agencies, companies and other appropriate settings. Requires regular meetings with faculty supervisor, completion of field study assignment, evaluation by field-based supervisor, and a written final report.

Credit/No Credit

CHAD 195. Internship in Child & Adolescent Development. 3 Units
Prerequisite(s): CHAD 30E, 35F, or 30C or equivalent. Completion of 60 units total credit and instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide a range internship experiences where students apply academic knowledge to educational or community settings. Students receive supervised employment in school districts, state and community agencies, companies and other appropriate settings. The field experiences will be combined with class activities designed to develop students’ understanding of topics related to their service. Requires regular meetings with faculty supervisor, completion of field study assignment, evaluation by field-based supervisor, and a written final report. The internships can be paid or unpaid.

Credit/No Credit

CHAD 196A. Approaches to Research Methods in Child Development A. 3 Units
Prerequisite(s): CHAD 30 or CHAD 35 or equivalent; completion of 45 total units; Must be taken prior to completion of 90 units.
Term Typically Offered: Fall, Spring

This course examines methodological issues involved in assessment, observation, analysis, and design in the field of child development. Topics include the research process. APA style writing, ethics, design and methods, use assessment tools, qualitative and quantitative data analysis and interpretation. The focus will be on becoming critical consumers of research and developing the skills of scientific inquiry.

Note: First course in a series. 196B must be taken in the semester immediately following completion of CHAD 196A.
CHAD 199. Special Problems. 1 - 3 Units  
Term Typically Offered: Fall, Spring  
Individual projects designed especially for students capable of independent study. Admission by written approval of the instructor and Department Chair.  
Credit/No Credit

CHAD 200. Proseminar in Human Development. 3 Units  
Prerequisite(s): Admission to MA Child Development program or instructor permission.  
Term Typically Offered: Fall only  
Introduction to graduate education in the Child and Adolescent Development Program. Orientation to advanced scholarship in human development with a focus on understanding and evaluating current directions in developmental research. Students will explore interrelations among theory, research, and practice as applied to human development. Students will critically evaluate developmental research as it applies to diverse populations, including issues of antiracism, equity, individual differences, contexts, and historical time. Students will employ writing conventions specific to the discipline.

CHAD 210. Seminar in Social Development. 3 Units  
Term Typically Offered: Spring only  
Advanced developmental seminar focusing on theoretical and empirical research covering topics in socio-emotional development. Specific topics will be related to socio-emotional development of children from conception through emerging adulthood with consideration of biological, environmental, and sociocultural influences. Students will critically evaluate socio-emotional developmental theories as they apply to diverse populations, individual differences, contexts, and historical time. Students will also reflect on how to use that knowledge to work towards antiracism, equity, and inclusion in the study of socio-emotional development.

CHAD 211. Seminar in Cognitive Development. 3 Units  
Prerequisite(s): Admission to MA program or instructor permission.  
Term Typically Offered: Fall, Spring  
Advanced developmental seminar focusing on theoretical and empirical research covering topics in cognitive development. Specific topics will be related to cognitive development of children from conception through emerging adulthood with consideration of biological, environmental, and sociocultural influences. Students will critically evaluate cognitive developmental theories as they apply to diverse populations, individual differences, contexts, and historical time. Students will also reflect on how to use that knowledge to work towards antiracism, equity, and inclusion in the study of cognitive development.

CHAD 242. Theoretical Approaches to Development. 3 Units  
Prerequisite(s): CHAD 137 or CHAD 138. Graduate standing or instructor permission.  
Term Typically Offered: Fall only  
An in-depth examination of theoretical approaches to various domains of human development. Content includes current and historical developmental theory and application of theory to developmental research. Critical thinking skills and scholarly writing will be emphasized.  
Note: Graduate Writing Intensive course
CHAD 244. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.

Note: May be taken up to four times for credit (maximum 12 units of credit).

CHAD 245. Selected Topics in Developmental Theory. 3 Units
Prerequisite(s): Admission to MA program or instructor permission.
Term Typically Offered: Fall, Spring

In-depth study of a selected topic in human development. Topic varies with each offering by rotating instructors. This course explores contemporary advancements in theory and research in the selected subdiscipline or topical area within human development.

Note: May be taken twice as long as topics and instructors differ.

CHAD 246. Motivation and Learning in Children. 3 Units
Prerequisite(s): Graduate standing, or instructor permission.
Term Typically Offered: Fall, Spring

Sources of and developmental changes in motivation, including biological predispositions, critical life events, individual differences, and social, cultural and educational experiences will be examined. Students will participate in a group research effort on motivation and educational practice.

CHAD 247. Seminar in Culture and Human Development. 3 Units
Prerequisite(s): CHDV 200 or instructor permission. CHDV 200 may be taken concurrently.
Term Typically Offered: Fall, Spring

In-depth examination of the relationship between culture and human development. Opportunities will be provided to evaluate how different theoretical and methodological approaches are used in the study of human development across cultures, including their epistemological principles, scope, and limitations. Developmental research will be used as the foundation to evaluate how diversity in human experiences shape how individuals think, act, and engage with others in local and global settings.

CHAD 248. Curriculum and Instruction. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Advanced study of the sociocultural influences on curriculum development. Research, theory, and curricular practices will be analyzed, evaluated and applied to a variety of preschool and primary grade settings.

CHAD 249. Language Processes in Development. 3 Units
Prerequisite(s): Admission to MA program or instructor permission.
Term Typically Offered: Fall, Spring

Language is an important cognitive and communicative tool that promotes learning. Through an integrative approach to language and cognitive development, students will examine how children learn through language. Students will have practical experience in collecting and analyzing children's language learning in educational settings.

CHAD 250. Advanced Quantitative Research Methods in Human Development. 3 Units
Prerequisite(s): CHAD 133; admission to the MA program or instructor permission.
Term Typically Offered: Fall, Spring

Critical analysis of quantitative research methods used in the study of human development and their philosophical underpinnings. Major topics include design; ethical conduct of research inquiry; the generation of research questions and hypotheses; and data collection, analysis, and interpretation. Critical thinking and disciplinary style writing skills will be emphasized.

CHAD 253. Apprenticeship in Advanced Child Development. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Faculty mentors will meet with graduate and undergraduate apprentices individually or in small groups for guided discussions of assigned readings and/or research data analysis/collection endeavors.

Note: Readings will depend on the specific mentor's research or scholarly interest; May be repeated up to 4 times for credit.

CHAD 258. Advanced Qualitative Research Methods in Human Development. 3 Units
Term Typically Offered: Fall, Spring

Critical analysis of qualitative research methods used in for the study of human development and their philosophical underpinnings. Major topics include design; ethical conduct of research inquiry; the generation of research questions; and data collection, analysis, and interpretation. Critical thinking and disciplinary style writing skills will be emphasized.

CHAD 290. Writing a Proposal. 3 Units
Prerequisite(s): CHAD 200 and CHAD 242 or instructor permission.
Corequisite(s): CHAD 250 or CHAD 258
Term Typically Offered: Fall, Spring

Seminar to focus on creating a proposal for the culminating experience (thesis/project). Students will be required to review various source materials related to their topic in human development, and synthesize the extant knowledge to justify their study or project. Course culminates with the completion of the research proposal.

Credit/No Credit
CHAD 292. Culminating Seminar for Exam Option. 3 Units
Prerequisite(s): Completion of all foundation course requirements for MA program (CHAD 200A, CHAD 200B, CHAD 242, CHAD 247, CHAD 250) advancement to candidacy, or instructor permission.
Term Typically Offered: Fall, Spring
Seminar to focus on topics/elements/expectations for the exam option culminating experience: test preparation and tips, exam writing, practice exam questions, time management, and community building with other students. Students will complete reading and writing assignments related to each exam area and prepare for an exam question related to an approved elective topic of their choice. Students will submit an exam petition to be reviewed and approved by the departmental exam committee.
Credit/No Credit

CHAD 295. Practicum in Child Development. 1 - 3 Units
Prerequisite(s): Graduate standing, or instructor permission.
Term Typically Offered: Fall, Spring
Directed field based experience in preschool, elementary or other community based settings serving children from infancy through adolescence and their families. Designed to provide students the opportunity to develop professional skills and understandings in applied settings or explore career development opportunities with particular emphasis on leadership or administrative skills and knowledge.
Note: Students are required to work at an instructor-approved field site consistent with their career goals and interests and attend an on campus seminar.

CHAD 299. Special Problems. 1 - 3 Units
Prerequisite(s): Open only to upper division and graduate students with consent of faculty advisor and Department Chair.
Term Typically Offered: Fall, Spring
Individual projects at graduate level designed especially for students capable of independent study. Departmental petition, signed by instructor with whom student will be working and department chair, required. Credit/No Credit

CHAD 504. Culminating Experience in Child Development: Thesis or Project. 3 Units
Prerequisite(s): Advancement to candidacy within the MA Child and Adolescent Development Program.
Term Typically Offered: Fall, Spring
Guidance toward completion of the culminating experience for the MA Child and Adolescent Development program. Credit is given upon successful completion of an approved culminating experience. Open only to graduate students who have 1) advanced to candidacy for the Master's degree, and 2) secured the permission of their faculty advisor and the Department Chair one full semester prior to registration.

CHAD 505. Culminating Experience in Child Development: Exam Option. 3 Units
Prerequisite(s): Admission to and completion of all course requirements for the MA, Child Development program, CHAD 292 or instructor permission.
Term Typically Offered: Fall, Spring
Guidance in ongoing preparation for the examination option for the MA, Child Development program. Credit is given upon successful completion of the examination option for the culminating experience. Open only to the graduate student who has completed all other course requirements, has been advanced to candidacy for the Master's degree, and has secured the permission of the Department Chair one full semester prior to registration.
Credit/No Credit

Chinese (CHIN)

CHIN 1A. Elementary Mandarin. 5 Units
Term Typically Offered: Fall only
Beginning Mandarin with emphasis on listening comprehension, speaking, grammar structure and character writing. The relationship between language and culture will also be emphasized. Includes an introduction to elements of Chinese culture that pertain to language, such as mode of thinking, inter-human relations, and aesthetic expressions.

CHIN 1B. Elementary Mandarin. 5 Units
Prerequisite(s): CHIN 1A or instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Spring only
Continuation of CHIN 1A, with growing emphasis on reading, writing, and listening. Chinese cultural patterns as reflected in the language, such as societal values and views of the world, will continue to be emphasized.

CHIN 2A. Intermediate Mandarin. 4 Units
Prerequisite(s): CHIN 1B or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall only
Intermediate Mandarin on the further development of reading, speaking, and writing skills. Emphasis will be placed on the shift from romanized script to Chinese characters. Introduction will also be made to simple prose reading. Meets the Foreign Language Graduation Proficiency Requirement.

CHIN 2B. Intermediate Mandarin. 4 Units
Prerequisite(s): CHIN 2A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Spring only
Continuation of CHIN 2A designed to further the development of reading, speaking and writing skills at the intermediate to intermediate-high level.
CHIN 110. Advanced Mandarin. 3 Units
Prerequisite(s): CHIN 28 or instructor permission.
Term Typically Offered: Fall only

Offered to third-year Mandarin learners, this course is designed to further develop language and communication skills with a focus on reading and discussing selected topics pertaining to a variety of contemporary China. Students will also study strategies for reading both simplified and traditional Chinese characters.

CHIN 120. Chinese Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Presentation of formative cultural achievements of China through language and literature with a view to understanding present-day popular Chinese culture. A general survey conducted in English for students who are taking Chinese language courses and others who want a deeper appreciation of this important non-Western culture.

CHIN 130. Introduction to Classical and Literary Chinese. 3 Units
Prerequisite(s): CHIN 2A or equivalent

The classical Chinese language, also known as literary Chinese, is the doorway into the fascinating world of Chinese culture. It has been the primary form of communication for at least three thousand years. Although Classical Chinese uses many of the same characters as modern Mandarin Chinese, the syntax and diction are quite different. In this course, we will study the language through readings in early philosophical, historical, and poetic texts.

CHIN 150. Survey of Chinese Literature. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Introduction to Chinese literature from classical times to the present. The various forms of Chinese prose, drama, poetry, and novel will be surveyed through the selective reading of representative works (in English translation). Class is conducted in English.

CHIN 195. Fieldwork-Tutoring. 1 - 3 Units
Prerequisite(s): Advanced level fluency and instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division students in Mandarin or Cantonese. 3 hours of tutoring per week for each unit. May be taken for credit more than once. Credit/No Credit

CHIN 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on independent study. Admission requires the approval of the instructor by whom the work is to be supervised. Credit/No Credit

Civil Engineering (CE)

CE 1. Civil Engineering Seminar. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduces students to civil engineering as a profession. Topics include the technical disciplines (environmental, geotechnical, structural, transportation, and water resources), the role of civil engineers in planning, constructing and operating infrastructure, and professional responsibilities such as licensure and ethics. Case studies are used to explore both technical and nontechnical aspects of civil engineering projects such as design and environmental constraints, constructability, and social and political issues.

CE 4. Engineering Graphics and CAD. 2 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

In-depth graphic analysis and solution of typical three dimensional space problems by applying the principles of orthogonal projection. Fundamentals of interactive computer aided design and drafting. Lecture one hour; laboratory three hours.

CE 9. Plane and Topographic Surveying. 2 Units
Prerequisite(s): MATH 30 and CE 9L. CE 9L may be taken concurrently. MATH 30 may be taken concurrently. Not currently enrolled in CE 9.
Term Typically Offered: Fall, Spring

Methods for the measurement of distance, direction, angles and elevations. Computational methods for locating points, closing traverses and determining areas and earthwork volumes. Horizontal and vertical curves. Introduction to legal aspects of surveying, geodetic surveys, maps, boundary surveys and new technologies used in surveying. Lecture two hours.

CE 9L. Plane and Topographic Surveying Laboratory. 1 Unit
Prerequisite(s): MATH 30 and CE 9. CE 9 may be taken concurrently. MATH 30 may be taken concurrently. Not currently enrolled in CE 9L.
Term Typically Offered: Fall, Spring

Laboratory course that supports CE 9. Use of surveying instruments and measurement techniques in field setting. Laboratory three hours.

Note: This course requires safety training and personal protective equipment (PPE).

CE 100. Engineering Geology. 2 Units
Prerequisite(s): ENGR 112; may be taken concurrently.
Term Typically Offered: Fall, Spring

Soil and rock mechanics and their relations to geological features influencing design, construction and maintenance of engineering projects. Lectures and field problems.

CE 101. Computer Applications in Civil Engineering. 3 Units
Prerequisite(s): ENGR 30 and CE 4; CE 4 may be taken concurrently.
Term Typically Offered: Fall, Spring

Development of programming- and algorithm-based problem-solving skills in civil engineering using modern programming and scripting languages and scientific computing programs. Application to numerical methods, data science, and visualization.
CE 130. Water Resources Engineering. 3 Units
Prerequisite(s): CE 1, CE 101, ENGR 115, ENGR 132, CE 130L. CE 130L may be taken concurrently. CE 101 may be taken concurrently. Not currently enrolled in CE 130.
Term Typically Offered: Fall, Spring

Hydrologic and hydraulic fundamentals which are common to water resources projects; introduction to reservoirs, dams, pipelines, channels, hydraulic machinery, ground water, water rights, statistical analysis, engineering economy applications, and water resources planning.

CE 130L. Hydraulics Laboratory. 1 Unit
Prerequisite(s): CE 101 and CE 130. CE 130 may be taken concurrently. CE 101 may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 130L.
Term Typically Offered: Fall, Spring

Laboratory experiments relating the principles of fluid mechanics to real fluid flow. Laboratory three hours.

CE 131. Hydrology. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 131.
Term Typically Offered: Fall only

Introduction to surface water hydrology for engineering. Evapotranspiration and infiltration prediction. Precipitation analysis, hydrograph and flood routing applications for civil engineering. Statistical applications in hydrology.

CE 132. Groundwater Engineering. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 132.
Term Typically Offered: Spring only


CE 133. Design of Urban Water and Sewer Systems. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 133.
Term Typically Offered: Fall only

Hydraulic design of water distribution and sewerage systems. Computer-assisted pipe network analysis. Analysis of pump systems. Pump station design. Other selected topics.

CE 134. Open Channel Hydraulics. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 134.
Term Typically Offered: Spring only

Civil engineering design problems in steady, uniform, gradually and rapidly varied open channel flow. Hydraulic analysis in structures, transitions, culverts, weirs and spillways. Channel design including roughness for subcritical and supercritical flow. Prediction of water surface profiles via simulation software.

CE 140. Transportation Engineering. 3 Units
Prerequisite(s): CE 1, CE 9, CE 9L, CE 101, ENGR 115, and CE 140L. CE 140L may be taken concurrently. CE 101 may be taken concurrently. Not currently enrolled in CE 140.
Term Typically Offered: Fall, Spring

Introduction to the fundamental topics in Transportation Engineering. Focus on roadway geometric design, layout considerations, pavement materials and design, traffic operations and analysis.
CE 150L. Environmental Engineering Laboratory. 1 Unit
Prerequisite(s): CHEM 1E or CHEM 1A, ENGR 115, CE 1, CE 101, and CE 150. CE 150 may be taken concurrently. CE 101 may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 150L.
Term Typically Offered: Fall, Spring

This is the laboratory course that supports CE 150. Activities include water quality testing and computer modeling. Laboratory three hours.
Note: This course requires safety training and personal protective equipment (PPE).

CE 151. Environmental Engineering Practice. 2 Units
Prerequisite(s): CE 150. Not currently enrolled in CE 151.
Term Typically Offered: Fall, Spring


CE 153. Design of Water Quality Control Processes. 3 Units
Prerequisite(s): CE 150B and ENGR 132. Not currently enrolled in CE 153.
Term Typically Offered: Spring only

Analysis and design of selected physical, chemical, and biological facilities for water purification and wastewater treatment. Emphasis is on design based on loading factors and integration of unit processes into treatment systems.

CE 155. Geoenvironmental Engineering. 3 Units
Prerequisite(s): CE 150B and CE 170; CE 150B may be taken concurrently. Not currently enrolled in CE 156.
Term Typically Offered: Not offered

Equilibrium distribution of contaminants among air, water and solid phases of soil systems; analysis and modeling of soil vapor extraction (SVE), pump and treat, and soil washing systems; movement of gasses in landfills; infiltration through landfill cover; geosynthetic liner systems; hazardous waste containment systems.

CE 160. Introduction to Structural Analysis. 3 Units
Prerequisite(s): CE 1, CE 101, ENGR 112, and (MATH 35 or MATH 100). Not currently enrolled in CE 160.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Analysis of statically determinate and indeterminate beams, frames, and trusses. Includes energy principles, flexibility and stiffness analyses, and influence lines. Computers are used to aid in the solution of complex structural problems.

CE 160L. Structural Laboratory. 1 Unit
Prerequisite(s): CE 101 and ENGR 112. WPJ score of 70+ or equivalent. Not currently enrolled in CE 160L.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Introduction to the principles of structural analysis and design by testing of structural elements. Experimental verification of the assumptions of strength of materials. Introduction to laboratory techniques. Laboratory three hours.
Note: This course requires safety training. This course requires personal protective equipment (PPE).

CE 163. Structural Steel Design. 3 Units
Prerequisite(s): CE 160. Not currently enrolled in CE 163.
Term Typically Offered: Fall, Spring

Theory and practice in design of structural steel members and connections using current design specifications. Design of tension and compression members, laterally supported and unsupported beams, beam-columns, and bolted and welded connections.

CE 164. Reinforced Concrete Design. 3 Units
Prerequisite(s): CE 160 and CE 160L. CE 160L may be taken concurrently. Not currently enrolled in CE 164.
Term Typically Offered: Fall, Spring

Introduction to reinforced concrete design according to American Concrete Institute (ACI) 318 Building Code, including: design and safety concepts; loads and load path; structural systems; material properties; flexural analysis and design of reinforced concrete beams and one-way slabs; development of reinforcement; serviceability; shear; columns; and other topics.

CE 165. Masonry Design. 3 Units
Prerequisite(s): CE 160. Not currently enrolled in CE 165
Term Typically Offered: Spring only

History of masonry. Masonry materials. Masonry as a structural material. Design of masonry beams, concentrically and eccentrically loaded columns, walls for vertical and lateral loading including effects of wind and seismic forces. Design of a small building for wind and seismic loading including torsional effects.

CE 166. Seismic Behavior of Structures. 3 Units
Prerequisite(s): CE 101, CE 160, and ENGR 110. Not currently enrolled in CE 166
Term Typically Offered: Fall, Spring

Analyzes simple structures’ response to dynamic loads with emphasis on response to earthquake ground motion. Introduction to multi-story buildings dynamics. Modal and approximate analyses of earthquake response. Dynamic analysis and building code procedures.

CE 168. Prestressed Concrete Design. 3 Units
Prerequisite(s): CE 160 and CE 164. CE 164 may be taken concurrently. Not currently enrolled in CE 168.
Term Typically Offered: Fall only – even years

Introduction to prestressed concrete design, focusing on bridges and buildings. Topics include: basic concepts; technology for fabrication and construction; material properties; flexural analysis and design for non-composite and composite beams; development of strands; prestress losses; camber and deflections; shear; and other topics. Design conforming to American Concrete Institute (ACI) 318 Building Code or AASHTO LRFD Bridge Design Specifications is emphasized, as appropriate.

CE 169. Timber Design. 3 Units
Prerequisite(s): CE 160. Not currently enrolled in CE 169.
Term Typically Offered: Fall only

Wood as a structural material. Design of sawn and glulam beams, concentrically and eccentrically loaded columns, shear walls, flexible diaphragms and connections for vertical and lateral loading including effects of wind and seismic forces.
CE 170. Soil Mechanics. 3 Units  
**Prerequisite(s):** CE 1, CE 100, CE 101, ENGR 112, and CE 170L. CE 170L may be taken concurrently. CE 101 may be taken concurrently. Not currently enrolled in CE 170.  
**Term Typically Offered:** Fall, Spring

Composition and properties of soils; soil classification; soil compaction; soil-water interaction, including permeability and seepage analyses; soil stresses; soil compressibility, consolidation, and settlement analysis; soil shear strength.

**CE 170L. Soil Mechanics Laboratory.** 1 Unit  
**Prerequisite(s):** Complete CE 1, CE 100, CE 101, ENGR 112, CE 170. CE 170 may be taken concurrently. CE 101 may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 170L.  
**Term Typically Offered:** Fall, Spring

Laboratory course that supports CE 170. Activities include soil testing and analysis of geotechnical site investigation data. Laboratory three hours.  
**Note:** This course requires safety training and personal protective equipment (PPE).

CE 171. Soil Mechanics and Foundation Engineering. 3 Units  
**Prerequisite(s):** CE 170 and CE 170L. Not currently enrolled in CE 171.  
**Term Typically Offered:** Spring only

Lateral earth pressures and principles of retaining wall design; slope stability analysis and principles of slope stabilization design; ultimate bearing capacity of soils, allowable bearing pressures and settlement of structures; principles of foundation design including shallow foundations and deep foundations.

CE 175. Geotechnical Earthquake Engineering. 3 Units  
**Prerequisite(s):** CE 170 and CE 170L. Not currently enrolled in CE 175.  
**Term Typically Offered:** Fall only

Introduction to seismology and seismic hazard analysis; determination of building code design loads; prediction of soil-site effects; evaluation of liquefaction triggering, cyclic softening and associated consequences; introduction to mitigation techniques for liquefaction and ground failure hazards.

CE 182. Introduction to GIS in Civil Engineering. 3 Units  
**Prerequisite(s):** ENGR 115, CE 9, CE 9L, and (CE 130 or CE 140 or CE 150 or CE 170). Not currently enrolled in CE 182.  
**Term Typically Offered:** Fall only

Fundamental geographic information system (GIS) concepts; GIS data acquisition and analysis; GIS analytical methods. Lab exercises with GIS software used to introduce students to typical uses of GIS in civil engineering. This course may be paired with the graduate-level course GIS Applications in Civil Engineering. Lecture two hours; laboratory three hours.

CE 183. Concrete Technology. 3 Units  
**Prerequisite(s):** ENGR 112.  
**Term Typically Offered:** Spring only

History of portland cement, production, hydration, aggregates, supplementary cementitious materials, chemical admixtures, fresh and hardened concrete properties, concrete mixture design, and concrete construction. Introduction to concrete durability, concrete repair, and advances in concrete technology.

CE 190. Civil Engineering Project Skills. 3 Units  
**Prerequisite(s):** CE 130 or CE 140 or CE 150 or CE 160 or CE 170. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 190.  
**General Education Area/Graduation Requirement:** GE AREA D  
**Term Typically Offered:** Fall, Spring

Introduction to professional engineering practice through case studies of existing projects, including estimating, scheduling, and specifications. Evaluation of design alternatives for engineering projects using principles of engineering economy and cost benefit analysis. Engineering ethics and professional responsibilities.  
**Note:** This course is intended to be taken in the final year of study before taking CE 191.

CE 191. Senior Project. 3 Units  
**Prerequisite(s):** CE 190  
**Term Typically Offered:** Fall, Spring

Culminating degree requirement. Completion of a conceptual design and evaluation of alternatives under realistic constraints for proposed infrastructure projects. Students work in teams with practicing professionals providing mentoring. Draws upon full educational experience to date. Lecture two hours. Laboratory three hours.  
**Note:** This course must be taken in the final semester.

CE 194. Career Development in Civil Engineering. 1 Unit  
**Prerequisite(s):** Instructor permission.  
**Term Typically Offered:** Fall, Spring

Designed for Civil Engineering students making career decisions. Instruction will include effective career planning strategies and techniques including skill assessments, employment search strategy, goal setting, time management, interview techniques and resume writing. Lecture one hour.  
**Note:** Units earned cannot be used to satisfy major requirements. Cross Listed: ENGR 194, EEE194

Credit/No Credit

CE 195. Fieldwork in Civil Engineering. 1 - 3 Units  
**Prerequisite(s):** Petition approval by supervising faculty member and Department chair.  
**Term Typically Offered:** Fall, Spring

Supervised work experience in civil engineering with public agencies or firms in the industry.  
**Note:** May be repeated for credit.

Credit/No Credit

CE 195A. Professional Practice. 1 - 12 Units  
**Prerequisite(s):** Instructor permission.  
**Term Typically Offered:** Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science.  
**Note:** Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit
CE 196B. Stormwater Management. 3 Units
Prerequisite(s): CE 150, CE 150L, CE 130, CE 130L
Term Typically Offered: Spring only


CE 196I. Geometric Design of Highways. 3 Units
Prerequisite(s): CE140, CE 140L
Term Typically Offered: Fall, Spring

Theory and practice of the principles of geometric design of highways and roads focusing on designing visual aspects of highways, highway classification, design controls and criteria, design elements, safety, vertical and horizontal alignment, cross section, intersections, and interchanges. Emphasis on the latest Federal and California design standards and tools, methods, and practices.

CE 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Open to students judged capable of carrying out individual work. Admission requires departmental approval and sponsorship of a supervising faculty member. Cannot be used as a technical elective in the major. Consult the CE Department for admission procedures and other requirements. May be repeated.

CE 199E. Independent Study Technical Elective. 3 Units
Prerequisite(s): GPA of 2.5 or greater in the upper division courses of the major; grade of "B" or better in the required major course associated with the proposed area of study (CE 130 or CE 140 or CE 150 or CE 160 or CE 170).
Term Typically Offered: Fall, Spring

Individual project, research, or directed reading on an advanced topic.

Note: Open to only those students prepared and capable of carrying out independent work.

CE 200. Civil Engineering Professional Writing. 3 Units
Term Typically Offered: Fall, Spring

Writing workshop course designed to immerse graduate students in the discourse of civil engineering. Instruction and practice in the writing process, professional writing styles used in the discipline, and editing. Multiple writing assignments totaling a minimum of 5000 words will be required.

CE 230. Water Resources Planning. 3 Units
Prerequisite(s): CE 281 or instructor permission.
Term Typically Offered: Fall only – odd years

Application of single and multi-objective planning to the design and operation of water resources projects. Objectives and constraints for water projects, criteria and procedures for evaluation, planning under uncertainty. Application in water development and water quality planning, with case studies.

CE 231. Hydrometeorology. 3 Units
Prerequisite(s): CE 130 or CE 131 and ENGR 115.
Term Typically Offered: Spring only – odd years

Analyses of hydrologic processes closely linked to the atmosphere: evaporation, evapotranspiration, precipitation, and snowmelt. Penman and Penman-Montieth evaporation models, the eddy covariance method for land-atmosphere vapor and energy fluxes, atmospheric rivers and their impact on California water resources.

CE 232. Groundwater Hydrology. 3 Units
Prerequisite(s): CE 130 or instructor permission.
Term Typically Offered: Fall only – even years

Occurrence and movement of groundwater; physical characteristics of aquifers; analysis of steady-state groundwater flow problems by mathematical, digital computer, electrical analog and graphical methods; analysis of unsteady-state problems in confined and unconfined, aquifers; multiple well systems.

CE 234. Advanced Engineering Hydrodynamics. 3 Units
Prerequisite(s): CE 130 or equivalent, or instructor approval.
Term Typically Offered: Spring only – even years

Steady uniform and non-uniform open channel flows including gradually, rapid and spatially varied flows; analysis of supercritical flow in transition; basic principles of unsteady flows; long wave theory; Saint-Venant Equations and their solutions including method of characteristics, explicit and implicit finite difference numerical methods.

CE 235. Hydrologic Modeling. 3 Units
Prerequisite(s): CE 234 or equivalent.
Term Typically Offered: Spring only – odd years

Theories and structure of hydraulic model components; application of HEC-RAS (River Analysis System) and HEC-HMS (Hydrologic Modeling System) computer programs; emphasis on flood routing methods; dam safety analysis methodology including dam break and dam overtopping cases; application of microcomputers in hydraulics computations.

CE 241. Analysis and Control of Traffic Systems. 3 Units
Prerequisite(s): CE 140 or CE 142; CE 243 or instructor permission.
Term Typically Offered: Spring only – odd years

Traffic data collection and analysis, practical application of theoretical methods of analysis such as capacity, level of service, and queuing theory. Investigation of traffic control techniques such as actuated signals and signal systems, and study of management techniques for traffic congestion.

CE 242. Transportation Planning. 3 Units
Prerequisite(s): CE 142 or instructor permission.
Term Typically Offered: Fall only – odd years

Introduction to the complexities of comprehensive intermodal transportation planning. Study of transportation problems, system operating characteristics, alternative modes, and the planning process. Analyzes factors affecting travel behavior and methods of forecasting demand for travel by various modes.
CE 243.  Traffic Flow Theory.  3 Units
Prerequisite(s): CE 140 or CE 142; ENGR 203 or instructor permission.
Term Typically Offered: Fall only – even years

Study of traffic flow characteristics including flow rate, speed, and
density, at both the microscopic and macroscopic levels. Traffic flow
analysis using the theoretical methods including capacity analysis, traffic
stream models, shockwave analysis, and queuing analysis. Emphasis is
on theory with demonstration of practical applications.

CE 244.  Advanced Transportation Facility Design.  3 Units
Prerequisite(s): CE 140 or instructor permission.
Term Typically Offered: Fall only – even years

Advanced study of current topics in highway and mass transportation
facility design including safety, curve design, pavement design and
drainage facility design. Focuses on current design practice and recent or
impending changes in design practice.

CE 245.  Pavement Design.  3 Units
Prerequisite(s): CE 140 and CE 170.
Term Typically Offered: Spring only – even years

Fundamental principles of pavement analysis, design, and evaluation.
Topics include pavement materials, mechanics, traffic and environmental
loadings, pavement performance, design methods, construction and
economic evaluation.

CE 251.  Environmental Quality Processes I.  3 Units
Prerequisite(s): CE 150, 150L, and CE 151; or equivalent.
Term Typically Offered: Fall, Spring

Theory and practice of chemical processes affecting water quality.
Chemical equilibrium, stoichiometry and kinetics of aqueous chemistry.
Acid-base, precipitation-dissolution, oxidation-reduction, and coordination
chemistry. Adsorption.

CE 252.  Environmental Quality Processes II.  3 Units
Prerequisite(s): CE 150, 150L, and 151.
Term Typically Offered: Fall, Spring

Theory and practice of biological processes for controlling water.
Stoichiometry and kinetics of microbial growth. Aerobic and anaerobic
metabolism. Engineered suspended and attached growth systems.
Introduction to sludge treatment.
Note: CE 251 recommended.

CE 253.  Environmental Quality Processes III.  3 Units
Prerequisite(s): CE 150, 150L, and 151; or equivalent.
Term Typically Offered: Fall, Spring

Theory and practice of physical and chemical processes used in
engineered water and wastewater systems. Adsorption, ion exchange,
gas transfer, membrane processes, coagulation, flocculation,
sedimentation, filtration, precipitation, disinfection, and stripping.
Physical/chemical reactors.
Note: CE 251 recommended.

CE 254.  Water Quality Management.  3 Units
Prerequisite(s): CE 170 or equivalent, CE 252A recommended, or
instructor permission.
Term Typically Offered: Fall, Spring

Examination of pollution sources and effects on water bodies, and the
management issues and tools used to protect environmental quality.
Topics include point and nonpoint pollution sources, interactions in
the environment, Federal and State laws, water quality objectives,
beneficial uses, and regulatory mechanisms such as basin plans and
total maximum daily loads (TMDLs). Emphasis is on surface water.

CE 255.  Transport of Chemicals in Soil Systems.  3 Units
Prerequisite(s): MATH 45. Graduate status.
Term Typically Offered: Fall, Spring

Study of the mechanics of movement of chemicals in soil, including
equilibrium and partition models, development of mass transport
equations in porous media, analytical solution for one-dimensional
transport, lumped parameter transport model (linear reservoir model),
transport of reactive and conservative chemicals numerical solutions of
transport models, transport in the unsaturated zone and coupled models
for saturated and unsaturated zone.

CE 260.  Matrix Structural Analysis.  3 Units
Prerequisite(s): CE 160.
Term Typically Offered: Fall only – even years

Flexibility and stiffness methods of structural analysis are applied to two-
and three-dimensional framed structures. Use of computer software to
perform analysis is discussed in detail. Techniques of computer modeling
are discussed.

CE 261.  Finite Element Analysis.  3 Units
Prerequisite(s): CE 260 or instructor permission.
Term Typically Offered: Spring only – odd years

Continuation of CE 260 with extension of theory to allow for the analysis
of a wider variety of structures. Structural analysis software is used for
the analysis of three-dimensional structures. Fundamentals of the finite
element method and computer modeling with applications to structural
problems.

CE 262.  Nonlinear Structural Analysis.  3 Units
Prerequisite(s): CE 260
Term Typically Offered: Spring only – odd years

Theory and applications of nonlinear structural analysis including
geometric and material nonlinear effects. Stability issues and second-
order analysis methods are discussed in the context of moment
amplification effects, member buckling, and the behavior of structural
elements and frames undergoing large deformations. Inelastic material
behavior and stress resultant plasticity concepts within a line-type
element framework. Computer implementation of geometric nonlinear
behavior.

CE 263.  Advanced Steel Design.  3 Units
Prerequisite(s): CE 163 or instructor permission
Term Typically Offered: Spring only – even years

Advanced design methodology of steel structures using Load and
Resistance Factor Design (LRFD). System level behavior, especially from
a seismic loading perspective, is integrated into the design of
steel components and connections. Other topics include plate girder
design, plastic design of indeterminate systems, design of moment frame
systems, and design of braced-frame systems.
CE 264. Advanced Design in Reinforced Concrete. 3 Units
Prerequisite(s): CE 160, CE 163, CE 164.
Term Typically Offered: Spring only – even years
Advanced topics in behavior and design in reinforced concrete. Detailing for seismic response.

CE 266. Dynamics and Earthquake Response of Structures. 3 Units
Prerequisite(s): CE 160, or equivalent.
Term Typically Offered: Fall only – odd years
Response of structures modeled as single-degree systems to harmonic, periodic, and arbitrary excitation and earthquake ground motion; effects of damping and material nonlinearity; numerical methods using spreadsheets; response spectra. Response of structures modeled as multi-degree systems: modeling of structure mass, damping and elastic stiffness; solution by modal superposition; time-history and response spectrum analysis; implications for codes for earthquake-resistant design. Microcomputer software is extensively used.

CE 267. Structural Systems for Buildings. 3 Units
Prerequisite(s): CE 163, CE 164, and CE 166; or equivalent
Term Typically Offered: Spring only – even years
Analysis and design of structural systems for buildings including frames, shear walls, and tubes; interaction between structural systems; secondary effects including geometric and material nonlinearities.

CE 268. Pre-stressed Concrete Bridge Design. 3 Units
Prerequisite(s): CE 164 or instructor approval.
Term Typically Offered: Fall only – even years
Behavior and design of short and medium-span prestressed concrete bridges using American Association of State Highway and Transportation Officials (AASHTO) Load Resistance Factor Design (LRFD) specifications. Topics include: bridge types, aesthetics; design process; superstructure load types and live load analysis; limit states and load combinations; prestressed concrete materials; flexural analysis and design; shear analysis and design; and introduction to substructure analysis and design, including seismic design criteria. A team project is required.

CE 270. Advanced Soil Mechanics and Foundation Engineering I. 3 Units
Prerequisite(s): CE 170 and CE 170L or equivalent.
Term Typically Offered: Fall only – even years
Advanced analyses in soil mechanics and their practical applications in foundation engineering; compressibility of soils, settlement analysis, and tolerable settlement; lateral earth pressures and design of earth retaining structures; bearing capacity of shallow foundations; in-situ soil testing for foundation design; design of deep foundations, including driven piles, drilled shaft foundations, and laterally loaded piles.

CE 271. Advanced Soil Mechanics and Foundation Engineering II. 3 Units
Prerequisite(s): CE 170 and CE 170L or equivalent.
Term Typically Offered: Fall only – odd years
Advanced analyses in shear strength of cohesionless and cohesive soils, including stress-strain characteristics of soils, total and effective stress analyses; slope stability analyses for natural slopes, fill slopes, earth dams, levees, and methods of slope stabilization; analysis and design of anchored bulkheads, cellular cofferdams, soil nail walls, tieback walls, mechanically stabilized earth walls, and segmental retaining walls.

CE 272. Geotechnical Modeling. 3 Units
Prerequisite(s): CE 170 and CE 170L or equivalent.
Term Typically Offered: Spring only – even years
Advanced analysis principles and procedures for calculating monotonic and cyclic soil element response effective stress and pore water pressure distributions, dynamic site response, and soil deformations; application to analysis of complex geotechnical engineering systems such as levees, dams, and wharfs. Laboratory time devoted to numerical analysis software and physical element and small scale tests. Lecture two hours. Laboratory three hours.

CE 273. Ground Modification Engineering. 3 Units
Prerequisite(s): CE 170 and CE 170L or equivalent.
Term Typically Offered: Fall, Spring
Principles of soil stabilization and earth reinforcement; mechanical compaction and treatment of difficult soils, including expansive soils, collapsible soils, oversize materials, and compressible fill; prefabricated vertical drains and preloading; dynamic deep compaction; vibro compaction; vibro-replacement; rammed aggregate pier; compaction grouting; jet grouting; slurry grouting; chemical grouting; deep soil mixing; slurry trench walls.

CE 274. Soil Dynamics and Earthquake Engineering. 3 Units
Prerequisite(s): CE 170 and CE 170L.
Term Typically Offered: Spring only – odd years
Introduction to vibration theory; wave propagation in soils and dynamic behavior of soils and foundations; dynamic tests; analysis of dynamically loaded foundations; causes of earthquakes; earthquake magnitude and zones; ground motions induced by earthquakes; earthquake-resistant design of foundations and earth dams.

CE 275. Geosynthetics. 3 Units
Prerequisite(s): CE 170 and CE 170L or equivalent.
Term Typically Offered: Fall only – even years
Overview of geotextiles, geogrids and geonets; geosynthetic properties and test methods; geosynthetic functions and mechanisms as in separation, roadway and soil reinforcement, filtration, and drainage; applications and design methods; construction, fabrication and installation.

CE 289. Project Management for Civil Engineers. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Spring only
Theory and practice of project management in civil engineering. Interrelationship of planning, design, and construction. New technologies and techniques used in both US and international architectural/engineering/construction (A/E/C) markets. Topics: Project initiation, early estimates, project budgeting, work plans, design proposals, scheduling, tracking, design coordination, construction, project close-out, team and personal management skills, and quality control.
### Communication Sciences and Disorders (CSAD)

#### CE 296D. Stormwater Management. 3 Units
**Prerequisite(s):** CE 137 and CE 170  
**Term Typically Offered:** Fall, Spring


#### CE 296H. GIS Applications in Civil Engineering. 3 Units
**Prerequisite(s):** ENGR 115, CE 9 and CE 137 or CE 147 or CE 171A.  
**Term Typically Offered:** Fall, Spring

Introduction to fundamental concepts of geographic information systems (GIS), methods, and applications in civil engineering. Design and develop GIS-based analytical methods and solutions for civil engineering problems. Lab exercises are used to design and practice GIS applications in civil engineering. This course may be paired with CE 196H.

#### CE 299. Special Problems. 1 - 3 Units
**Term Typically Offered:** Fall, Spring

Special problems in graduate research.  
**Note:** Approval of a petition must be obtained from the faculty supervising the work and the Department Graduate Program Coordinator. Letter grade or Credit/No Credit.

#### CE 500. Culminating Experience. 3 - 6 Units
**Prerequisite(s):** Advanced to candidacy and permission of the faculty advisor and Department Chair.  
**Term Typically Offered:** Fall, Spring

Successful completion of either: A. Thesis (3-6 units), or B. Project (3-6 units) or C. Directed Study and Examination (3 units). Plan A requires a thesis and is primarily research-oriented. Plan B requires a project report that is primarily application-oriented. Plan C requires a detailed literature review or experimental data analysis resulting in a written report plus an examination by three faculty. A public presentation is required for all three plans.

### Communication Sciences and Disorders (CSAD)

#### CSAD 101. Introduction to Communication Sciences and Disorders. 3 Units
**Term Typically Offered:** Fall, Spring

This survey course serves as an introduction to the field of communication sciences and disorders (CSAD; speech-language pathology and audiology) and serves three general groups of students: (1) undergraduate majors in CSAD, (2) undergraduate students considering a major in CSAD, and (3) students from related fields, such as education, nursing, health sciences, etc. Through the course, students will gain a broad understanding of clinical work and research in the field of communication sciences and disorders.

#### CSAD 110. Physics of Sound and Phonetics. 4 Units
**Prerequisite(s):** CHDV 30, DEAF 51, PSYC 2, and STAT 1  
**Corequisite(s):** CSAD 111  
**Term Typically Offered:** Fall only

Physical production, acoustic characteristics of sounds of speech. International Phonetic Alphabet as applied to speech sounds; practice in phonetic transcription of dialects and deviant speech; applications in speech education, speech and hearing therapy. Introduction to physiological acoustics, psychoacoustics, and acoustic phonetics. Perception of speech including voice, resonance, individual speech segments; instrumentation for acoustic and perceptual analysis of speech.

#### CSAD 111. Anatomy and Physiology of the Speech Mechanism. 3 Units
**Prerequisite(s):** CHDV 30, DEAF 51, PSYC 2, and STAT 1  
**Corequisite(s):** CSAD 110  
**Term Typically Offered:** Fall only

Anatomical, physiological and neurological bases of speech. Covers development, normal structure and function. A general course in human anatomy is recommended as background.

#### CSAD 112. Language Science and Development. 3 Units
**Prerequisite(s):** CHDV 30, DEAF 51, PSYC 2, and STAT 1  
**Corequisite(s):** CSAD 110 and CSAD 111  
**Term Typically Offered:** Fall only

Overview and comparison of normal and abnormal child language development from infancy through upper elementary school. Establishes a framework for understanding language disorders including autism and pervasive developmental delay. Includes theories of language acquisition, basic principles of language sampling, systems of language, elements of grammar, and preparation for informal and standardized assessment of language disorders. Introduces students to the impact of variables such as attention deficit disorder, poverty, bilingualism on developing language skills.

#### CSAD 123. Voice and Fluency. 3 Units
**Prerequisite(s):** CSAD 125, CSAD 126, CSAD 148, PSYC 2, STAT 1, CHDV 30, and DEAF 51.  
**Term Typically Offered:** Fall, Spring


#### CSAD 125. Developmental and Acquired Neurogenic Language Disorders Across the Lifespan. 3 Units
**Prerequisite(s):** CSAD 112, CHDV 30, PSYC 2, STAT 1, and DEAF 51.  
**Term Typically Offered:** Spring only

Language disorders and the dynamic, reciprocal relationships between the disability, the client, his/her family, and the environment. Developmental and acquired neurogenic language disorders from infancy through adulthood will be covered including neurophysiology and neuropathology.
CSAD 111. Introduction to Audiology. 3 Units
Prerequisite(s): CHDV 30, PSYC 2, STAT 1, and DEAF 51.
Term Typically Offered: Fall, Spring

Current concepts regarding anatomy and physiology, etiology, assessment, and treatment of craniofacial disorders, laryngectomy, tracheostomy and dysphagia.

CSAD 121. Introduction to Speech-Language Pathology. 3 Units
Prerequisite(s): CSAD 110, CHDV 30, PSYC 2, STAT 1, and DEAF 51.
Term Typically Offered: Spring only


CSAD 127. Introduction to Medical Speech Pathology. 3 Units
Prerequisite(s): CSAD 123, CSAD 125, CSAD 126, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Prerequisite: CSAD 122

Current concepts regarding psychosocial aspects of hearing impairment, communication strategies, physiological measures of auditory function, disorders of the auditory system, sound variation and assessment approaches.

CSAD 123. Introduction to Aural Rehabilitation. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 130, CSAD 148, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Spring only

Principles of aural (re)habilitation across the lifespan. Topics include psychosocial aspects of hearing impairment, communication strategies, amplification, and intervention approaches for children and adults with hearing loss.

CSAD 124. Speech Sound Development and Disorders in Children: Aspects of Articulation and Phonology. 3 Units
Prerequisite(s): CSAD 110, CHDV 30, PSYC 2, STAT 1, and DEAF 51.
Term Typically Offered: Spring only


CSAD 125. Introduction to Medical Speech Pathology. 3 Units
Prerequisite(s): CSAD 123, CSAD 125, CSAD 126, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Prerequisite: CSAD 122

Current concepts regarding psychosocial aspects of hearing impairment, communication strategies, physiological measures of auditory function, disorders of the auditory system, sound variation and assessment approaches.

CSAD 126. Speech Sound Development and Disorders in Children: Aspects of Articulation and Phonology. 3 Units
Prerequisite(s): CSAD 110, CHDV 30, PSYC 2, STAT 1, and DEAF 51.
Term Typically Offered: Spring only


CSAD 127. Introduction to Medical Speech Pathology. 3 Units
Prerequisite(s): CSAD 123, CSAD 125, CSAD 126, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Prerequisite: CSAD 122

Current concepts regarding psychosocial aspects of hearing impairment, communication strategies, physiological measures of auditory function, disorders of the auditory system, sound variation and assessment approaches.

CSAD 128. Introduction to Aural Rehabilitation. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 130, CSAD 148, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Spring only

Principles of aural (re)habilitation across the lifespan. Topics include psychosocial aspects of hearing impairment, communication strategies, amplification, and intervention approaches for children and adults with hearing loss.

CSAD 140. SLPA Methods. 3 Units
Prerequisite(s): CSAD 145 and instructor permission.
Corequisite(s): CSAD 140L
Term Typically Offered: Fall, Spring

Taken by students as one of their senior level courses when they wish to pursue a Speech-Language Pathology Assistant (SLPA) licensure. Graduate students who have not had a similar course and wish to obtain this licensure will also need to enroll prior to pursuing the licensure.

CSAD 141. SLPA Practicum, Ethical and Legal Parameters. 3 Units
Prerequisite(s): CSAD 145 and instructor permission.
Corequisite(s): CSAD 140
Term Typically Offered: Fall, Spring

Taken by students as one of their senior level courses when they wish to pursue a Speech-Language Pathology Assistant (SLPA) licensure. Graduate students who have not had a similar course and wish to obtain this licensure will also need to enroll prior to pursuing the licensure.

CSAD 142. Topics in Autism Spectrum Disorders. 2 Units
Prerequisite(s): CSAD 112, CSAD 125, CSAD 148, PSYC 2, STAT 1, CHAD 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Detailed look at characteristics of autism spectrum disorders (including Asperger's Syndrome, PDD-NOS and Autism). Issues related to diagnosis/assessment, early intervention, school-based intervention, functional therapeutic techniques and theories, and current "hot topics" in Autism (Theory of Mind, joint attention, biomedical issues, dietary restrictions, sensory regulation and intervention paradigms) will be a part of this course.

CSAD 143. Communication Disorders in Multicultural Populations. 3 Units
Prerequisite(s): CHAD 30, PSYC 2, STAT 1, CSAD 110, CSAD 125, CSAD 126 and CSAD 148.
Term Typically Offered: Fall, Spring

Identification, evaluation, and treatment of multicultural, multilingual clients with communication disorders. Discussion of normal second language acquisition, bilingual development, and cultural values related to effective service delivery for multicultural clients.

CSAD 144. Supervised Field Observations. 1 Unit
Prerequisite(s): CHAD 30, CHDV 30, PSYC 2, STAT 1, CSAD 110, and DEAF 51.
Corequisite(s): CSAD 125, CSAD 126, CSAD 130 and CSAD 148.
Term Typically Offered: Spring only

Directed observations of speech and hearing testing (screening and diagnostic); therapy and case staffing in schools, service clinics and hospitals.

CSAD 145. Introduction to Clinical Issues and Methods. 3 Units
Prerequisite(s): CHDV 30, PSYC 2, STAT 1, CSAD 110, CSAD 111, CSAD 112, PSYC 2, CSAD 110, CHDV 30, and DEAF 51.
Term Typically Offered: Spring only

Directed observations of speech and hearing testing (screening and diagnostic); therapy and case staffing in schools, service clinics and hospitals.

CSAD 146. Introduction to Clinical Issues and Methods. 3 Units
Prerequisite(s): CHDV 30, PSYC 2, STAT 1, CSAD 110, CSAD 111, CSAD 112, CSAD 125, CSAD 126, CSAD 130, and CSAD 145. Minimum major GPA of 3.2 with no CSAD course below a grade of "C."
Term Typically Offered: Fall, Spring

Work with graduate students and clients. Introduction to clinical procedures, ASHA Code of Ethics, legal issues, funding sources, supervision and scope of practice. Survey of professional settings for speech and language services, including multidisciplinary settings. Required for applicants of the CSAD Master's program. Recommended for students who plan to apply to graduate programs at other universities. Optional for students who do not plan to attend graduate school. Background check, immunizations, and HIPPA training required prior to enrollment (see Department webpage).

CSAD 147. Assessment Procedures. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 145, CSAD 148, PSYC 2, STAT 1, CHAD 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Current principles, methods and materials used by the speech-language pathologist to assess communication disorders are presented. Issues related to a model of assessment, informal and formal testing, dynamic assessment, interview techniques, administration, scoring and interpretation of test results, report writing and related issues will be discussed.
CSAD 148. Research in Speech-Language Pathology and Audiology. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110, CSAD 111, CSAD 112.
Term Typically Offered: Fall, Spring
Survey of research strategies and methods in Speech-Language Pathology and Audiology. Statistical procedures and single-subject designs. Emphasis on interpreting research reports in the literature and on developing research projects. Writing research proposals and reports.

CSAD 177. Appreciation of Diversity in Communication Sciences and Disorders. 1 Unit
Prerequisite(s): CSAD Major.
Term Typically Offered: Fall, Spring
This peer-led course is designed to partner students enrolled within and outside of the department of Communication Sciences and Disorders (CSAD) for a mutual exchange opportunity. Information obtained in CSAD coursework will be used by CSAD students to provide them with hands-on learning experiences relating to the topics covered in those courses. Topics for discussion include concepts relating to intercultural sensitivity and diversity as they apply to communication sciences and disorders.

CSAD 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Open only to students competent to carry on individual work.
Note: Departmental petition required.
Credit/No Credit

CSAD 217. AAC and Assistive Technologies. 2 Units
Term Typically Offered: Spring only
Biological, acoustic, psychological, development, linguistic, and cultural bases for motor speech disorders, focusing on augmentative and alternative communication an assistive technologies as well as their assessment and treatment techniques.

CSAD 218. Motor Speech Disorders. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall only
Background pertinent to understanding neurophysiology associated with congenital and acquired dysarthria and dyspraxia. Descriptions and classifications of disorders and their causes, methods of assessment and treatment.

CSAD 219. Counseling Techniques for Speech Pathologists and Audiologists. 3 Units
Term Typically Offered: Fall only
Development of strategies for counseling and interviewing clients with communication disorders and their families. Development of specific skills such as effective listening, dealing constructively with emotions, working with families, and leading support groups. Students will learn to deal effectively with the affective side of communication disorders to help clients benefit maximally from assessment and treatment.

CSAD 221. Neurogenic Language Disorders. 4 Units
Term Typically Offered: Spring only
In-depth study of language and cognitive disorders in adult, secondary to cerebrovascular accident, dementia, and/or traumatic brain injury. Assessment and intervention strategies are covered with particular emphasis on functional outcomes.

CSAD 222. Curriculum in Relation to Language -- Learning Disabilities in School-age Children. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Spring only
Language acquisition as a continuum from oral language to reading and writing, the role of the speech-language specialist in working with reading disabilities; the interactions among speech-language intervention and curricula areas including mathematics, spelling, handwriting, social studies and language arts; and various service delivery models, including collaborative consultation and learning centers.

CSAD 223. Advanced Seminar in Child Language Disorders. 3 Units
Prerequisite(s): CSAD 125 or equivalent
Term Typically Offered: Fall only
In-depth study of childhood language disorders emphasizing the use of critical thinking to integrate evidence-based practice into discussion of current assessment and intervention practices for children with primary and secondary language impairment. Specific topics include language sampling, early intervention, connecting intervention with Common Core State Standards, and team-based service delivery. Populations addressed include bilingual learners, those with working memory deficits, and autism spectrum disorder. The impact of the digital era and screen exposure on children with language impairment is discussed.

CSAD 227. Dysphagia and the Medical Setting. 3 Units
Prerequisite(s): CSAD 218, CSAD 221, instructor permission.
Term Typically Offered: Fall, Spring
Swallowing problems from infancy through old age; growth patterns and failures in younger populations; feeding and swallowing problems related to normal aging processes and those associated with neurogenic disorders. Assessment and treatment. Includes theoretical and experiential components. Overview of the role of Speech-Language Pathologist in the hospital setting including learning how to read medical charts, basic insurance information, understanding other disciplines and how they affect the job and career of an SLP in the hospital, and medical terms/abbreviations.

CSAD 228A. Speech Sound Disorders: Concepts and Methods. 2 Units
Prerequisite(s): Admission to the graduate program. CSAD 125, CSAD 126, CSAD 143, CSAD 145, CSAD 146, CSAD 148.
Corequisite(s): CSAD 229A.
Term Typically Offered: Fall, Spring
Speech sound disorders for graduate students in speech-language pathology. Foundations of speech sound disorders, as well as techniques and materials for assessing and treating speech sound differences and disorders of varying etiologies and presentations. Weekly content will be integrated with practical experiences to promote learning.
CSAD 228B. Voice and Fluency: Concepts and Methods. 3 Units
Prerequisite(s): CSAD 123, CSAD 127, CSAD 228A, instructor permission.
Corequisite(s): CSAD 229B.
Term Typically Offered: Fall, Spring

Foundations of fluency, voice and resonance, as well as techniques and materials for assessing and treating speech disorders, emphasizing fluency and voice. Staffings and discussion of cases on the current caseload. Weekly content integrated with practical experiences to promote learning.

CSAD 228C. Methods: Speech Disorders III. 1 Unit
Prerequisite(s): CSAD 218, CSAD 228B; CSAD 221 may be concurrent; instructor permission.
Corequisite(s): CSAD 229C.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating clients with disordered speech secondary to developmental disabilities and syndromes, degenerative diseases or complex problems associated with English as a second language (ESL). Discussions of cases in the current caseload.

CSAD 229A. Practice: Speech Disorders I. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 228A.
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing articulation and phonological disorders, and phonological difficulties associated with English as a second language (ESL). Clients may include both children and adults.

CSAD 229B. Practice: Speech Disorders II. 2 Units
Prerequisite(s): Instructor permission.
Corequisite(s): CSAD 228B.
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing clients whose speech is disrupted by abnormal rhythm and rate (e.g. stuttering and cluttering) or abnormal vocal pitch, loudness, and/or quality.

CSAD 229C. Practice: Speech Disorders III. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 228C
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing children and adults whose speech is disrupted secondary to developmental disorders and syndromes, degenerative disorders or complex problems.

CSAD 241S. Practice: Hearing Screenings. 1 Unit
Prerequisite(s): CSAD 130
Term Typically Offered: Fall, Spring

Supervised clinical practice in the administration of hearing screening tests. The student must furnish his/her own transportation. Fifteen to twenty hours for one unit.

Credit/No Credit

CSAD 242A. Methods: Language Disorders I & Professional Writing-Field of Speech-Language Pathology & Audiology. 2 Units
Prerequisite(s): Admission to Graduate Program
Corequisite(s): CSAD 243A
Term Typically Offered: Fall, Spring

Methods, materials and procedures in language disorders with emphasis on working with children and adults with peripheral hearing loss or central auditory processing disorders (CAPD). Includes staffing and discussion of cases in the current caseload. Focus on professional writing in the field of Speech-Language Pathology through the development of treatment plan proposals, critical responses, and clinic reports.

CSAD 242B. Methods: Language Disorders II. 1 Unit
Prerequisite(s): CSAD 223, CSAD 242A; instructor permission.
Corequisite(s): CSAD 243B.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating children with disordered language secondary to a myriad of contributing factors including delayed development, neurological problems and various genetic conditions. Discussion of cases in the current caseload.

CSAD 242C. Methods: Language Disorders III. 1 Unit
Prerequisite(s): CSAD 218, CSAD 242B; CSAD 221 may be taken concurrently; instructor permission.
Corequisite(s): CSAD 243C.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating speech and language disorders emphasizing disorders secondary to cerebral vascular accidents, traumatic brain injury, or other neurological disorders. Discussion of cases in the current caseload.

Note: May be repeated.

CSAD 243A. Practice: Language Disorders I. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 242A.
Term Typically Offered: Fall, Spring

Supervised clinical practice in language disorders emphasizing children and adults with peripheral hearing loss or central auditory processing disorders (CAPD).

CSAD 243B. Practice: Language Disorders II. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 242B.
Term Typically Offered: Fall, Spring

Supervised clinical practice with children demonstrating language disorders secondary to a myriad of contributing factors including delayed development, neurological problems, and various genetic conditions.

CSAD 243C. Practice: Language Disorders III. 2 Units
Prerequisite(s): CSAD 243B; instructor permission
Corequisite(s): CSAD 242C.
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing adult clients whose speech and language are disordered secondary to neurogenically related problems such as cerebrovascular accident, traumatic brain injury, or other neurological disorders.
CSAD 244.  Methods: Speech -- Language Assessment.  1 Unit  1 Credit/No Credit
Prerequisite(s): CSAD 147 or equivalent; CSAD 228B, CSAD 242B; instructor permission.
Corequisite(s): CSAD 245.
Term Typically Offered: Fall, Spring
Methods and materials for initial assessment in Speech-Language Pathology.

CSAD 245.  Practice: Speech -- Language Assessment.  1 Unit  1 Credit/No Credit
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 244
Term Typically Offered: Fall, Spring
Supervised clinical practice in assessment with a variety of communication disorders in children and adults. Experience with interdisciplinary teams.

CSAD 250.  Speech/Language Internships Seminar.  2 Units  4 Units
Corequisite(s): CSAD 295I, or CSAD 295M, or CSAD 295P, or CSAD 295S.
Term Typically Offered: Fall, Spring
Assessment, scheduling and conducting language speech and hearing programs in schools. Related issues including scope of practice, managed care, interagency cooperation and transdisciplinary approaches.

CSAD 295I.  Internship: Speech-Language and Hearing Services in Schools (SLHS).  4 Units  2 Units
Prerequisite(s): All previous semester’s clinical practica and coursework must be completed, achievement of a passing score on the CBEST.
Corequisite(s): CSAD 230. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring
Supervised clinical practice in the school setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation.

CSAD 295M.  Internship: Speech-Language Pathology in a Medical Setting.  4 Units  2 Units
Prerequisite(s): All previous semester’s clinical practica and coursework must be completed, achievement of a passing score on the CBEST.
Corequisite(s): CSAD 250. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring
Supervised clinical practice in a medical setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation.

CSAD 295P.  Internship: Speech-Language Pathology in Private Practice.  4 Units  2 Units
Prerequisite(s): CSAD 250. All previous semester’s clinical practica and coursework must be completed, achievement of a passing score on the CBEST. Graded: Credit/No Credit.
Term Typically Offered: Fall, Spring
Supervised clinical practice in a private practice setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation.

CSAD 295S.  Internship: Special Class Authorization Eligibility.  4 Units  1 Unit
Prerequisite(s): CSAD 250. All previous semester’s clinical practica and coursework must be completed, achievement of a passing score on the CBEST. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring
Supervised clinical practice in a medical setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation.

CSAD 299.  Special Problems.  1 - 3 Units  1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Open only to students who appear competent to carry on individual work.

Note: Departmental petition required.

Credit/No Credit

CSAD 500C.  Culminating Experience: Comprehensive Exam.  2 Units  2 Units
Prerequisite(s): Advanced to Candidacy Graded: Credit/No Credit Units: 2.0
Term Typically Offered: Fall, Spring
Written exam comprised of eight questions. Examinees are given one and a half hours to complete each question.

CSAD 500P.  Culminating Experience: Project.  2 Units  2 Units
Prerequisite(s): Advancement to Candidacy. Graded: Credit/No Credit.
Units: 2.0 - 4.0
Term Typically Offered: Fall, Spring
Independent work conducted under the supervision of faculty members. A project is a significant undertaking appropriate to the professional fields of Speech-Language Pathology or Audiology. It must evidence originality, independent thinking, appropriate form and organization, and a rationale. It must be described and summarized in a written document that includes the project’s significance, objectives, methodology, and a conclusion or recommendation. Students must follow all department and university project guidelines.

CSAD 500T.  Culminating Experience: Thesis.  2 Units  2 Units
Prerequisite(s): Advanced to Candidacy. Graded: Credit/No Credit.
Term Typically Offered: Fall, Spring
Independent research study, conducted under the supervision of faculty members. Thesis must involve a research question or hypothesis, review of pertinent literature, collection and analysis of data. It is the student’s responsibility to locate and recruit subjects, to collect data, and to write the thesis. Students must follow all department and university thesis guidelines.

CSAD 501.  Audiology Doctoral Project I.  1 Unit  1 Unit
Prerequisite(s): CSAD 510
Term Typically Offered: Fall only
Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines.

Credit/No Credit
CSAD 502. Audiology Doctoral Project II. 1 Unit
Prerequisite(s): CSAD 501
Term Typically Offered: Spring only

Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines.
Credit/No Credit

CSAD 503. Audiology Doctoral Project III. 1 Unit
Prerequisite(s): CSAD 502
Term Typically Offered: Summer only

Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines.
Credit/No Credit

CSAD 504. Audiology Doctoral Project IV. 1 Unit
Prerequisite(s): CSAD 503
Term Typically Offered: Fall only

Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines.
Credit/No Credit

CSAD 505. Audiology Doctoral Project V. 1 Unit
Prerequisite(s): CSAD 504
Term Typically Offered: Spring only

Dissemination, written and oral, of capstone research.
Credit/No Credit

CSAD 510. Audiology Progress Exam. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 620, CSAD 620C, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 630, CSAD 630C, CSAD 631, CSAD 632.
Term Typically Offered: Summer only

Formative written and practical exam based on coursework and clinical experiences from the first year of the Doctor of Audiology program.
Credit/No Credit

CSAD 520. Audiology Comprehensive Exam. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program: CSAD 610, CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 620, CSAD 620C, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 630, CSAD 630C, CSAD 631, CSAD 632, CSAD 634, CSAD 640C, CSAD 641, CSAD 642, CSAD 643, CSAD 850, CSAD 650C, CSAD 651, CSAD 652, CSAD 653, CSAD 660, CSAD 660C, CSAD 661, CSAD 662, CSAD 663, CSAD 670, CSAD 670C, CSAD 671, CSAD 672, CSAD 673
Term Typically Offered: Spring only

Summative written and practical exam based on coursework and clinical experiences from the first three years of the Doctor of Audiology program.
Credit/No Credit

CSAD 610. Introduction to Clinic. 1 Unit
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Introduction to on-campus clinic operations, including electronic documentation procedures, clinic policies, and documentation.

CSAD 611. Anatomy and Physiology of the Auditory and Vestibular Systems. 3 Units
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Anatomical, physiological, and neurological bases of the auditory system and central nervous system. Covers embryologic development, including genetic factors, and normal structure and function.

CSAD 612. Acoustics and Psychoacoustics. 3 Units
Prerequisite(s): Admission to Doctorate program in Audiology.
Term Typically Offered: Fall only

Basic properties of the acoustics of simple and complex sounds. Psychophysical aspects of frequency and pitch, intensity and loudness, and temporal processes will be discussed. Speech perception for listeners with normal hearing and those with hearing loss.

CSAD 613. Instrumentation in audiology. 3 Units
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Basic principals of electrical systems, calibration, signal processing, and analysis. Review of national standards related to calibration and instrumentation used in audiology.

CSAD 614. Audiologic Evaluation. 3 Units
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Introduction to the purpose, diagnostic use, and procedures for basic clinical tests of auditory function in children and adults. Assessments including pure-tone audiometry, speech audiometry, masking, and immittance measures are discussed. Supervised, hands-on experiences will accompany lecture topics.
CSAD 620. Clinical Methods: Communicating with Patients. 1 Unit
Prerequisite(s): Admission to doctorate program in audiology; CSAD 610.
Corequisite(s): CSAD 620C.
Term Typically Offered: Spring only

Communicating with patients. The nature of health communication among providers, patients, families, and caregivers. Topics related to multicultural issues will also be presented.

CSAD 620C. Audiology Clinic II. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610
Corequisite(s): CSAD 620
Term Typically Offered: Spring only

Supervised clinical practice in audiology with an emphasis on developing second-semester clinical skills for audiologic evaluations, amplification, and aural rehabilitation.

CSAD 621. Research Methods in Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only

Treatment of human subjects and research methods. Overview of the research process, including research designs, development of data collection instruments, and data collection, and introduction to basic statistical concepts for the Au.D. doctoral project. Ethical considerations of research are also discussed.

CSAD 622. Amplification I. 3 Units
Prerequisite(s): Admission to the Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, and CSAD 614.
Corequisite(s): CSAD 622L
Term Typically Offered: Spring only

Introduction to electroacoustic analysis and characteristics of hearing aids. Includes components of hearing aids, hearing aid gain and fitting formulae, and basic signal processing.

CSAD 622L. Amplification I Lab. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, and CSAD 614.
Corequisite(s): CSAD 622.
Term Typically Offered: Spring only

Laboratory component of CSAD 622: Amplification I. Hands-on experience with concepts presented in CSAD 622.

CSAD 623. Disorders of the Auditory System. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, and CSAD 614.
Term Typically Offered: Spring only

Pathologies of the auditory system, including diagnosis, management, and treatment.

CSAD 624. Genetics for Audiology. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614.
Term Typically Offered: Spring only

Introduction to genetics, inheritance, and causes of hearing loss and balance disorders.

CSAD 630. Clinical Methods: Report writing. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620.
Corequisite(s): CSAD 630C.
Term Typically Offered: Summer only

Principles of clinical report writing. Foundations of professional writing and recordkeeping for the diagnostic and rehabilitative processes. Writing requirements for practicum experiences will be discussed.

CSAD 630C. Audiology Clinic III. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C.
Corequisite(s): CSAD 630.
Term Typically Offered: Summer only

Supervised clinical practice in audiology with an emphasis on developing first-year clinical skills for audiologic evaluations, amplification, and aural rehabilitation.

CSAD 631. Amplification II. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624.
Term Typically Offered: Summer only

Advance study of digital amplification systems, including hearing aids and assistive listening devices. Practical approaches to the fitting of devices are discussed.

CSAD 632. Pediatric and Educational Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624.
Term Typically Offered: Summer only

Introduction to etiologies of childhood hearing impairment, including genetics, syndromic and non-syndromic causes of hearing loss, and risk factors. Objective and behavioral measures of assessing auditory function and hearing in newborns, infants, toddlers, and children. Review of screening procedures.

CSAD 640. Clinical Methods: Current Topics in Audiology. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630
Corequisite(s): CSAD 640C.
Term Typically Offered: Fall only

Review and discussion of current topics in audiology such as hidden hearing loss, cerumen management, tinnitus, speech perception in noise, central auditory processing, or technological advancements in amplification.

CSAD 640C. Audiology Clinic IV. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C
Corequisite(s): CSAD 640.
Term Typically Offered: Fall only

Supervised clinical practice in audiology with an emphasis on developing fourth-semester clinical skills for audiologic evaluations, amplification, and aural rehabilitation.
CSAD 641. Auditory Evoked Potentials. 3 Units
**Prerequisite(s):** Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632
**Corequisite(s):** CSAD 641L
**Term Typically Offered:** Fall only

Physiological measures for evaluating the integrity of the auditory system. Emphasis on the administration and interpretation of the auditory brainstem response.

CSAD 641L. Auditory Evoked Potentials Lab. 1 Unit
**Prerequisite(s):** Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632
**Corequisite(s):** CSAD 641
**Term Typically Offered:** Fall only

Lab component includes administration and reporting of physiological assessments presented in CSAD 641: Auditory Evoked Potentials.

CSAD 642. Industrial Audiology and Hearing Conservation. 3 Units
**Prerequisite(s):** Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632
**Term Typically Offered:** Fall only

Study of the effects of noise on the auditory system and measurement of noise levels. Theories and resources for the implementation of hearing conservation programs for recreational/leisure noise exposure, industrial settings, and schools.

CSAD 643. Tinnitus. 3 Units
**Prerequisite(s):** Admission to Doctor of Audiology program; CSAD611, CSAD612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632
**Term Typically Offered:** Fall only

Psychological and physiological models of tinnitus and hyperacusis, diagnostic methods, and management.

CSAD 650. Clinical Methods: Billing and Coding. 1 Unit
**Prerequisite(s):** Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640
**Corequisite(s):** CSAD 650C
**Term Typically Offered:** Spring only

Overview of coding, billing, and reimbursement for audiology services and devices. Students will learn current federal regulations and laws that affect audiology practice.

CSAD 650C. Audiology Clinic V. 1 Unit
**Prerequisite(s):** Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C
**Corequisite(s):** CSAD 650
**Term Typically Offered:** Spring only

Supervised clinical practice in audiology with an emphasis on refining second-year clinical skills and working independently. Credit/No Credit

CSAD 651. Objective Measures. 3 Units
**Prerequisite(s):** Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
**Term Typically Offered:** Spring only

Fundamentals of otoacoustic emissions, and advanced study of immittance testing and the auditory brainstem response with some practical exercises.

CSAD 652. Pediatric Habilitation. 3 Units
**Prerequisite(s):** Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631 CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
**Term Typically Offered:** Spring only

Early identification, assessment, and rehabilitation for infants and children with hearing loss. Focus on speech and language outcomes, communication strategies, technology, and counseling of families.

CSAD 653. Diagnosis and Management of Vestibular Disorders. 3 Units
**Prerequisite(s):** Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
**Term Typically Offered:** Spring only

Anatomical and physiological bases of the vestibular system, including congenital, peripheral, and central, and neurologic factors will also be introduced. Physiological measures of the vestibular system, clinical assessment, and management and rehabilitation.

CSAD 660. Clinical Methods: Legal and Ethical Issues. 1 Unit
**Prerequisite(s):** Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650
**Corequisite(s):** CSAD 660C
**Term Typically Offered:** Summer only

Ethics for clinical practice and research and legal issues for audiologists. Focuses on local and national issues that influence service delivery.

CSAD 660C. Audiology Clinic VI. 2 Units
**Prerequisite(s):** Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C, CSAD 650C.
**Corequisite(s):** CSAD 660
**Term Typically Offered:** Summer only

Supervised clinical practice in audiology with an emphasis on refining advanced clinical skills and working independently. Credit/No Credit

CSAD 661. Aural Rehabilitation. 3 Units
**Term Typically Offered:** Summer only

Rehabilitative techniques and communication needs for adults and the aging population. Focus on minimizing communication difficulties and managing psychosocial aspects of hearing loss. Prerequisite: Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653.
CSAD 673. Pharmacology and Ototoxicity. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662.
Term Typically Offered: Fall only

Introduction to the basic concepts of pharmacology, including pharmacokinetics, polypharmacy, and ototoxicity (cochleotoxicity, vestibulotoxicity, and neurotoxicity), for audiologists. Overview of drug classifications, interactions, and regulations.

CSAD 662. Implantable Devices and Technology. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD6614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653
Term Typically Offered: Summer only

Pre-operative assessment and post-operative management of cochlear implants and other implantable devices. Includes patient counseling for expectations, introduction to surgical procedures, mapping, use of assistive devices, and current developments in research.

CSAD 670. Clinical Methods: Professional Issues. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650, CSAD 660
Corequisite(s): CSAD 670C
Term Typically Offered: Fall only

Professional issues for audiologists. Topics covered include licensure, certification, and professional involvement at the local, state, and national levels.

CSAD 670C. Audiology Clinic VII. 2 Units
Prerequisite(s): Student must be admitted to Doctor of Audiology program; complete CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C, CSAD 650C and CSAD 660C to enroll in this course.
Corequisite(s): CSAD 670C
Term Typically Offered: Fall, Spring

Supervised clinical practice in audiology with an emphasis on refining third-year clinical skills and working independently.

CSAD 671. Counseling in Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662.
Term Typically Offered: Fall only

Introduction to the principles and theories of counseling. Emphasis on communication skills and applied techniques. Considerations for assessing multicultural populations. Influences of cultural background on attitudes, beliefs, disabilities, utilization of health care services, and deafness.

CSAD 672. Central Auditory Processing Disorders. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 311, CSAD 312, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 331, CSAD S32, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 362.
Term Typically Offered: Fall only

Definition and role of audiologists in the assessment, diagnosis, and management of children, adults, and older adults with auditory processing disorder.

CSAD 672C. Audiology Clinic VIII. 2 Units
Corequisite(s): CSAD 670C
Term Typically Offered: Spring only

Supervised clinical practice in audiology with an emphasis on refining clinical skills and working independently in preparation for the externship.
CSAD 683. Speech-Language Pathology for Audiologists. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 331, CSAD 332, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662, CSAD 671, CSAD 672, CSAD 673
Term Typically Offered: Spring only
Overview of speech and language development, including screening for speech and language disorders and risk factors for speech and language delay, from the perspective of audiology. Principles of auditory-verbal therapy.

CSAD 710. Clinical Methods: Externship I. 2 Units
Prerequisite(s): CSAD 520
Corequisite(s): CSAD 710E
Term Typically Offered: Summer only
Seminar and discussion of cases from externship placements.

CSAD 710E. Audiology Externship 1. 7 Units
Prerequisite(s): CSAD 520
Corequisite(s): CSAD 710
Term Typically Offered: Summer only
First full-time externship in audiology I.
Credit/No Credit

CSAD 720. Clinical Methods: Externship II. 2 Units
Prerequisite(s): CSAD 710
Corequisite(s): CSAD 720E
Term Typically Offered: Fall only
Seminar and discussion of cases from externship placements.

CSAD 720E. Audiology Externship 2. 7 Units
Prerequisite(s): CSAD 710E
Corequisite(s): CSAD 720
Term Typically Offered: Fall only
Second full-time externship in audiology II.
Credit/No Credit

CSAD 730. Clinical Methods: Externship III. 2 Units
Prerequisite(s): CSAD 720
Corequisite(s): CSAD 730E
Term Typically Offered: Spring only
Seminar and discussion of cases from externship placements.

CSAD 730E. Audiology Externship 3. 7 Units
Prerequisite(s): CSAD 720E
Corequisite(s): CSAD 730
Term Typically Offered: Spring only
Third full-time externship in audiology III.
Credit/No Credit

Communication Studies (COMS)

COMS 2. Argumentation. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring
Practice in argumentation, critical evaluation, evidence, and reasoning. Basic principles are applied in a variety of formal and informal advocacy situations. Concepts of argument structure and context are discussed and applied.
Note: Majors must complete with a grade of "C-" or better.

COMS 4. Introduction to Public Speaking. 3 Units
General Education Area/Graduation Requirement: Oral Communication (A1)
Term Typically Offered: Fall, Spring
Theory and technique of public speaking. Emphasis on organizing, supporting, and clearly stating ideas. Practice in informative and persuasive speaking.

COMS 4H. Honors Public Speaking. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Oral Communication (A1)
Term Typically Offered: Fall, Spring
Provides both theoretical and practical training in the art of public discourse. Students learn both to recognize and to demonstrate the strategic processes of organizing and delivering speeches, especially within the context of global citizenship issues. Students are also introduced to the basic idea of forming reasonable challenges to speech in the public square.

COMS 5. The Communication Experience. 3 Units
General Education Area/Graduation Requirement: Oral Communication (A1)
Term Typically Offered: Fall, Spring
Basic skills and introductory concepts necessary for effective communication in a variety of settings. Special emphasis on practical experiences within groups, facilitation of interpersonal relationships, and methods of conflict resolution.
Note: Not recommended for COMS majors in General, Organizational or Public Relations concentrations.

COMS 8. Interpersonal Communication Skills. 3 Units
Term Typically Offered: Fall, Spring
Basic skills and introductory concepts for examining and altering interpersonal communication. In addition to lectures and discussions, students engage in structured interpersonal exercises and simulations to practice interpersonal communication skills such as listening, paraphrasing, describing feelings and intentions, and giving and receiving criticism.
Note: Majors must complete with a grade "C-" or better.

COMS 20A. Audio Production. 2 Units
Corequisite(s): COMS 20B.
Term Typically Offered: Fall, Spring
Introduction to the theory and practice of audio production in radio, television, film and recording applications.
Cross listed: FILM 20A.
COMS 20B. Audio Production Laboratory. 1 Unit
Corequisite(s): COMS 20A.
Term Typically Offered: Fall, Spring
Experience in audio console operation, microphone selection and use, and audio recording in radio, television, film and recording applications. Cross listed: FILM 20B.

COMS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Helps students to develop and exercise fundamental academic success strategies and to improve their basic learning skills. Students interact with fellow students and the seminar leader to build a community of academic and personal support.

COMS 26. Introduction to Capturing and Editing Digital Media. 2 Units
Corequisite(s): COMS 27B.
Term Typically Offered: Fall, Spring
Addresses the theory and practice of film/video production. Students will be expected to understand: camera operation, audio control, basic directing, lighting, and editing. Students will also be expected to learn the terminology of video production/post-production and use this terminology competently. Students enrolled in COMS 27A must be concurrently enrolled in COMS 27B. There are no exceptions to this requirement.
Cross-listed: FILM 27A

COMS 27A. Digital Film/Video Production. 3 Units
Corequisite(s): COMS 27B.
Term Typically Offered: Fall, Spring
Developing skills in producing photographic, graphic and animated materials used for the World Wide Web and multimedia.

COMS 27B. Digital Film/Video Production Laboratory. 1 Unit
Corequisite(s): COMS 27A.
Term Typically Offered: Fall, Spring
Provides practical, hands-on experience in video production. Students will be expected to become proficient in all production roles: camera operation, audio control, basic directing, lighting, and editing. Students enrolled in COMS 27B must be concurrently enrolled in COMS 27A.
Cross listed: FILM 27B.

COMS 55. Media Communication and Society. 3 Units
Term Typically Offered: Fall, Spring
Introduction to the basic concepts of mass communication, including the effects, uses, and functions associated with the goods and services of mass media. Examination of the ways mass media combine with other institutions to affect the organization, design, and comprehension of messages, as well as political thought, cultural beliefs, and economic behavior.
Note: Majors must complete with a grade of "C-" or better. Cross Listed: JOUR 55; only one may be counted for credit.

COMS 100A. Survey of Communication Studies. 3 Units
Term Typically Offered: Fall, Spring, Summer
Survey of various theories of communication. Attention given to such topics as verbal and nonverbal coding, information processing, interpersonal and small group communication, organizational communication, the structure and effects of mediated communication, rhetorical criticism, and research in communication.
Note: Majors and minors must complete with a grade of "C-" or better.

COMS 100B. Rhetoric and Social Influence. 3 Units
Prerequisite(s): COMS Studies Majors only. COMS 2, COMS 4, (COMS 5 is accepted for COMS 4 for MCOM majors) or transfer equivalents and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).
Corequisite(s): COMS 100A
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer
Detailed examination of texts on controversial issues in order to illustrate the varied forms of rhetorical action and the diverse modes of rhetorical analysis. Examples drawn from the literature of classical/contemporary rhetors.
Note: Majors must complete with a grade of "C-" or better; Writing Intensive

COMS 100C. Introduction to Scientific Methods in Communication Research. 3 Units
Prerequisite(s): COMS 100A; may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer
Empirical methods commonly applied during communication research. An introduction to the concepts fundamental to the scientific study of communication, including conceptual and operational definitions, sampling, measurement, experimental design, independent and dependent variables, and quantitative data analysis.
Note: Majors must complete with a grade of "C-" or better.

COMS 101. Information Management and Privacy. 3 Units
Term Typically Offered: Fall, Spring
Students develop skills to use information proficiently in digital environments. In order to cope with information overload, students learn how to define and limit informational needs, how to access and evaluate information critically, and how to analyze and integrate information purposefully. The course teaches students evolving strategies and techniques for maintaining personal information spaces and security.

COMS 103. Presentational Speaking in the Organization. 3 Units
Prerequisite(s): A general education oral communication course.
Term Typically Offered: Fall, Spring, Summer
Contemporary communication techniques for use in business and industry. Principles and practice of oral reporting, persuasive speaking, conference participation, and interpersonal interaction.
Note: COMS majors are urged to take COMS 104 instead of COMS 103.

COMS 104. Persuasive Public Speaking. 3 Units
Prerequisite(s): COMS 2, COMS 4, or instructor permission.
Term Typically Offered: Fall, Spring
Advanced public speaking focusing upon persuasive strategies, principles and techniques.
COMS 105. Communication in Small Groups. 3 Units
Term Typically Offered: Fall, Spring, Summer

Theory and practice in small group communication. Topics include leadership, meeting management, evolution of group norms, phases of group development, communication networks, good communication techniques, conflict management, and problem solving in a variety of contexts.

COMS 106. Digital Media Creation - An Introduction. 3 Units
Term Typically Offered: Fall, Spring

Students learn multimedia authoring through the manipulation of digital media download legally from online repositories. Students learn how to digitally edit pixel-based images, vector images, audio, video and 3D models, while learning the principles that govern all digital media. The course uses Open Source and specialized software.

COMS 107. Children And Television. 3 Units
Term Typically Offered: Fall, Spring

Cognitive, affective, and behavioral effects of television on children. Explores in detail issues such as televised violence, stereotyping, advertising and cognitive development. Discusses relationship between television and education.

COMS 108. Family Communication. 3 Units
Prerequisite(s): COMS 8 or FACS 50 or SOC 166, or instructor permission.
Term Typically Offered: Fall, Spring

Family as a small group with emphasis on understanding and interpreting the dynamics of family communication and socio-psychological theories. Cross Listed: FACS 108; only one may be counted for credit.

COMS 109. Advanced Debate Workshop. 1 Unit
Term Typically Offered: Fall, Spring

Participation in intercollegiate debate competition. Credit/No Credit

COMS 110. Debate Research Practicum. 3 Units
Term Typically Offered: Fall only

Directed research in the current intercollegiate debate topic; identification of issues, compilation of evidence, and case building.
Note: May be taken four times for credit with instructor permission.

COMS 111. Communication and American Culture. 3 Units
Term Typically Offered: Fall, Spring, Summer

Critical analysis of the ways modern American media interact with the conduct of American life; emphasizes the role of commercialism and other aspects of contemporary American capitalism; examines the problem of personal development and relationships in the context of a commercially dominated media system.

COMS 112. Media Aesthetics. 3 Units
Term Typically Offered: Fall, Spring

Overview and analysis of the primary aesthetic tools used to create messages in video and film. The basic properties of light, color, area, space, shape, sound, time and motion are defined and discussed as they relate to media production. Introduces students to the concepts and vocabulary necessary for effectively conceiving, producing or criticizing mediated messages. Designed primarily for students with interest in digital media. Provides a foundation for students working in media criticism. Cross listed: FILM 121.

COMS 113. Public Relations. 3 Units
Prerequisite(s): COMS 55 or JOUR 55 or equivalent; may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to the PR subprocesses of task identification, task analysis, and task performance.

COMS 114. Nonverbal Communication. 3 Units
Term Typically Offered: Fall, Spring

Nonverbal communication will focus on the nonverbal aspects of human communication. Students will learn the vocabulary of nonverbal communication (NVC) as we examine the nature of NVC, NVC Codes, and the effects of NVC on messages we receive and send. In addition, we will consider nonverbal behaviors in interpersonal relationships, intercultural communication and research in nonverbal.

COMS 115. Intercultural Communication. 3 Units
Term Typically Offered: Fall, Spring

Analysis of factors which influence communication between individuals of different cultures and cocultures. Discussion and practical application.

COMS 116. Survey of Public Relations. 3 Units
Prerequisite(s): At least one college writing course in ENGL or JOUR with a grade of "C-" or better.
Term Typically Offered: Fall, Spring

Introduces the student to publics, organization-environment relationships, structures, practices, and processes from a communication theory and research perspective. Specifically, the student is introduced to the multi-phased approach to public relations, an approach that highlights the PR subprocesses of task identification, task analysis, and task performance.

COMS 117. Multimedia Communication. 3 Units
Prerequisite(s): COMS 106
Term Typically Offered: Fall, Spring

Students create and integrate information and digital media with the purpose of informing or persuading an audience. By identifying communication needs, students learn to prepare multimedia presentational aids and standalone multimedia presentations for distribution in online environments. This course features topics in visual communication, story-boarding, presentation and delivery.

COMS 118. Conflict Resolution Through Communication. 3 Units
Term Typically Offered: Fall, Spring

Ways to identify, clarify, and resolve conflicts in dyads, groups, and organizations. Conflict is contrasted with disagreement, aggression, incompatible values, etc. The costs and benefits of conflict are explored.

COMS 119. History of the Media. 3 Units
Prerequisite(s): COMS 55 or JOUR 55 or equivalent; may be taken concurrently.
Term Typically Offered: Fall, Spring

Examination of development of major mass communication media in the U.S. and of how the economics, content, regulation and audience use of the media have been affected by the way the media have evolved. Current issues and trends are discussed, as well as possible future development. Cross Listed: JOUR 120; only one may be counted for credit.

COMS 120. Communication in Small Groups. 3 Units
Term Typically Offered: Fall, Spring, Summer

Theory and practice in small group communication. Topics include leadership, meeting management, evolution of group norms, phases of group development, communication networks, good communication techniques, conflict management, and problem solving in a variety of contexts.

COMS 121. Multicultural Communication. 3 Units
Term Typically Offered: Fall, Spring

Nonverbal communication will focus on the nonverbal aspects of human communication. Students will learn the vocabulary of nonverbal communication (NVC) as we examine the nature of NVC, NVC Codes, and the effects of NVC on messages we receive and send. In addition, we will consider nonverbal behaviors in interpersonal relationships, intercultural communication and research in nonverbal.
COMS 122. Writing for Interactive Media. 3 Units
Prerequisite(s): ENGL 1A and ENGL 20 or (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.)
Term Typically Offered: Fall, Spring
Writing and editing for visual, audio, and interactive media. How to choose appropriate format and delivery mechanisms for news, web sites, kiosks, and CD/DVD. Topics include copyright law and information ethics.

COMS 123. Writing for Public Relations. 3 Units
Prerequisite(s): JOUR 30; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Term Typically Offered: Fall, Spring
Organization and operation of communication media; practice in publicity and public relations techniques. Emphasis on clear writing and correct public relations formats such as releases, PSAs, articles, and speeches. Cross listed: JOUR 123

COMS 124. Writing Scripts for Film/Video. 3 Units
Prerequisite(s): ENGL 1A and ENGL 20.
Term Typically Offered: Fall, Spring
Developing narratives, documentaries, educational, promotional, and experimental short screenplays. Students are expected to develop a writing style and master screenwriting and audio/virtual scripting formats. Scripts will be developed to be produced in advanced production courses: COMS/FILM 128 and COMS/FILM 185. Cross listed: FILM 124.

COMS 126. Motion Graphics in Film and Video. 3 Units
Prerequisite(s): COMS 20A, COMS 20B and COMS 26 or both COMS 27A and COMS 27B each with a grade of "B-" or better or instructor permission.
Term Typically Offered: Fall, Spring
Artistic and technical skills employed when capturing and editing photographic, audio, and video data files. Data files are prepared for export into multimedia authoring applications. Mastery of appropriate hardware and software.

COMS 127. Producing and Directing for Television. 3 Units
Prerequisite(s): COMS 20A, COMS 20B, COMS 27A, COMS 27B, each with a grade of "B-" or better.
Term Typically Offered: Fall, Spring
Theory and practice of producing and directing television programs with emphasis on studio and control room techniques.

COMS 128. Intermediate Production. 3 Units
Prerequisite(s): FILM/COMS 20AB with a grade of "C" or better. FILM/COMS 27AB with a grade of "C" or better.
Term Typically Offered: Fall, Spring
Continued exploration of the digital filmmaking process through lecture, lab, and practical application. Project-based learning emphasizes working as a crew and the three distinct stages of production: prep, production, and post. Students write, produce, direct and edit original content to bring projects to fruition. Cross-listed: FILM 128.

COMS 129. Film and Video Production Management. 3 Units
Term Typically Offered: Fall, Spring
Management and administration of the preproduction and production process. Course to include script breakdown, budgeting, scheduling and other preproduction and production management skills needed for film or video production. Special attention on the history, development and current practices of the Production Manager. Cross listed: FILM 129.

COMS 130. Staging and Lighting Digital Video. 3 Units
Prerequisite(s): COMS 20A, COMS 20B, COMS 27A, COMS 27B, each with a grade of B- or better.
Term Typically Offered: Fall, Spring
Introduction to the aesthetics, concepts and techniques used to control lighting in digital video productions. Aspects of staging, blocking and composition in the context of studio and location lighting. Note: Students enrolled are required to work on productions outside of scheduled class time (1-3 hours/week). Cross listed: FILM 130.

COMS 132. Film As Communication. 3 Units
Term Typically Offered: Fall, Spring
Study of history and theory of film and video editing. Many films are viewed and discussed, examining how editing theory is put into practice. Cross listed: FILM 132.

COMS 133. The Documentary Film. 3 Units
Term Typically Offered: Fall, Spring
Examines the historical, development, and present state of documentary film. Emphasis is on both understanding and critically analyzing the significance of various genres of the documentary and its uses as a tool for information, proselytizing, education, and propaganda.

COMS 136. Introduction to Electronic Publishing. 3 Units
Prerequisite(s): COMS 26 or instructor permission.
Term Typically Offered: Fall, Spring
Design and production of information sites for the World Wide Web. Concepts covered include market analysis, cognitive design, layout, navigation, interactive strategies, site management, and multimedia components for electronic distribution systems. Introduction to object oriented programs and XHTML text editors.

COMS 140. Online Collaboration. 3 Units
Term Typically Offered: Fall, Spring
Students learn to communicate in virtual environments in real-time and asynchronously. Students survey current technologies for collaboration, explore psychological and cultural aspects of individuals working and communicating in teams across computer networks, and identify strategies to foster cooperatives in distributed work.

COMS 141. Theory of Film and Video Editing. 3 Units
Prerequisite(s): COMS/FILM 27A and COMS/FILM 27B with final posted grade of C or better.
Term Typically Offered: Fall, Spring
Study of history and theory of film and video editing. Many films are viewed and discussed, examining how editing theory is put into practice. Cross listed: FILM 141.

COMS 142. Film As Communication. 3 Units
Term Typically Offered: Fall only
Explores the uses of film as a tool of communication.
COMS 143. Theories of Interpersonal Communication. 3 Units
Prerequisite(s): COMS 8 or equivalent; COMS 100A may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

One-to-one communication between individuals in both social and task settings. Theories of communication during the growth and decay of relationships, as well as research on the forces behind relational dynamics. Topics include nonverbal communication, self concept, communication of self, theories of conflict resolution, communication competence and the rhetoric of disconfirmation.

COMS 144. Developing Rich Media Websites. 3 Units
Prerequisite(s): COMS 27A, and COMS 27B.
Term Typically Offered: Fall, Spring

An introduction to the creation of multimedia websites using current multimedia development software such as Flash. Emphasis will be placed on creating interactive video and formatting video programs for delivery over the WWW, extranets, or intranet.

COMS 145. Organizational Communication. 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Fall, Spring, Summer

Basic concepts of interpersonal and inter-group communication within formal and informal social organizations. Current techniques of auditing and evaluating organizational communication.

COMS 149. Multimedia Authoring. 3 Units
Prerequisite(s): COMS 106, COMS 126.
Term Typically Offered: Fall, Spring

Basic multimedia authoring theory and skills. Text, graphics, audio, and video are synchronized into interactive media. Topics include 2D animation, interface design, and fundamentals of scripting language.

COMS 150. Mass Communication Theories and Effects. 3 Units
Prerequisite(s): COMS 55 or JOUR 55 or equivalent; and COMS 100A which may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Survey of the major theories dealing with the relationship between the mass media and human communication behavior. Examination of research into the social, political, economic and cultural effects of mass communication.

COMS 152. Freedom Of Speech. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Thorough introduction to issues related to freedom of speech and censorship, sections of the historical origins of free speech, seditious speech, libel and slander, pornography and obscenity, commercial speech and advertising, symbolic speech and hate speech. The class brings a communication focus to addressing issues related to the First Amendment.

COMS 153. Journalism Law and Ethics. 3 Units
Term Typically Offered: Fall, Spring

Laws and regulations that govern print, broadcast, and the electronic mass media in the U.S. Discusses the process by which laws and regulations are enacted and interpreted as well as legal and regulatory issues concerned with the content, control, political role and responsibilities of media practitioners, regulators, Congress, and the public.
Cross listed: JOUR 153

COMS 154. Instructional Design and Training. 3 Units
Term Typically Offered: Fall, Spring

Communication theory and practice in organizational training. Surveys instructional communication theory and the instructional design process. Focus on effective communication in training contexts. Topics include needs assessment, training design, training evaluation and training delivery via electronic media.

COMS 155. Survey of World Cinema. 3 Units
Term Typically Offered: Fall, Spring

A historical review of the development of major international film styles and themes. Concepts derived from this study of international film are then used as a basis to analyze contemporary films of India, Asia, and Africa. Emphasis is on both the development of formal film technique and a comparison of the unique cultural values that shape the film narrative and style.

COMS 157. Video Art. 3 Units
Prerequisite(s): ART 97 or COMS 27A/Film 27A and COMS 27B/Film 27B.
Term Typically Offered: Fall, Spring

The creation and analysis of video artwork; including techniques of video production, post-production manipulation and critique, within the context of art and communication. The techniques and theory of producing and editing video will serve as a foundation for the pursuit of individual, creative projects.
Cross-listed as ART 147; only one may be counted for credit.

COMS 158. Public Relations Planning and Management. 3 Units
Prerequisite(s): COMS 118 and COMS 123 or JOUR 123 with grade of "C-" or better.
Term Typically Offered: Fall, Spring

Theoretical concepts to the solution of problems for pre-selected non-profit and campus clients by forming small group PR agencies; completing needs assessments; profiling target and secondary audiences; developing and implementing a strategic public relations plan; producing targeted messages for media kits and other uses; developing and evaluating formative and summative evaluation plans; and making formal in-class presentations to peers, clients and invited PR professionals. Students will also learn how to negotiate contracts, maintain client relations, track work on projects and develop timelines and budgets.
Cross Listed: JOUR 158; only one may be counted for credit.

COMS 160. Political Communication. 3 Units
Term Typically Offered: Fall only

Analyzes the relationship between mass media and political decision-making, including a structural analysis of political and media institutions. Particular attention on the formation of public opinion through messages and strategies, and the impact of public opinion on public policy.
COMS 161. Health Communication. 3 Units
Term Typically Offered: Fall, Spring
Communication principles and techniques as they apply to the many facets of health care, health education and promotion, and research in health communication. Emphasis on understanding and improving communication among health professionals, and between health professionals and clients. Explores the rapidly emerging field of health communication. Selected concepts and theories of human communication are directly applied to communication problems and situations in health care settings through the use of case studies. In addition, pertinent research that helps explain human interaction in health care is incorporated through readings and discussions.

COMS 162. Gender Ideology and Communication. 3 Units
Prerequisite(s): COMS 100A
Term Typically Offered: Fall, Spring
Scholarly, theoretical and critical writings on the production and circulation of gender roles, images, and gender-types attributes through communication, with a special focus on mass-mediated communication such as television, video, and film.

COMS 163. Propaganda, Power, & Manipulation. 3 Units
Term Typically Offered: Fall, Spring
This course will map major moments in the development of power and propaganda as a communication apparatus, identify the discursive and media presentations of ideologies, and engage in struggles for control and resistance. Twentieth century propaganda sought to advance nationalism, advertise consumer society, and enact war. The 21st century clash of civilizations couples media and events into circulation of acts of terror. With post-modern social media, novel interactions among communication apparatus, norms, and global entities generate new threats and opportunities.

COMS 164. Visual Communication. 3 Units
Prerequisite(s): COMS 100A and 100B or equivalent, with a grade of C- or better.
Term Typically Offered: Fall, Spring, Summer
Comprehensive overview of the theoretical concepts and communication methodologies appropriate for analysis of contemporary visual messages. Focuses on rhetorical analysis of visual messages. Significant research and critical writing required.

COMS 165. Communication and Religion. 3 Units
Term Typically Offered: Fall, Spring, Summer
Examines the history, development and present state of religious communication. Discussion of the limits and challenges communication theories face when confronted with situations requiring them to describe the indescribable. Emphasis upon the communication methods in a religious context as well as the communication strategies, limits, and possibilities that are revealed in what is arguably the most extreme of communication situations: the intersection of religion and words.

COMS 166. Theories of Persuasion and Attitude Change. 3 Units
Term Typically Offered: Fall, Spring
Various theories of persuasion and attitude change, both classical and empirical, in terms of their effectiveness and social impact. Includes units on production and consumption of persuasive messages.

COMS 167. Systems and Theories of Rhetoric. 3 Units
Prerequisite(s): COMS 100B or equivalent with a grade of "C-" or better.
Term Typically Offered: Fall, Spring, Summer
Historical survey of theories of rhetoric. Comparison/contrast of scope and value of rhetorical theories. Practice in critical writing.

COMS 168. Approaches to Rhetorical Criticism. 3 Units
Prerequisite(s): COMS 100B or equivalent with a grade of "C-" or better.
Term Typically Offered: Fall, Spring, Summer
Analyzes rhetorical events, using a variety of critical perspectives. Current issues on criticism's function and the critic's role. Practice in critical writing.

COMS 169. Television Criticism. 3 Units
Prerequisite(s): COMS 100B with a grade of "C-" or better; completion of 12 units of upper division COMS courses; or unclassified graduate student status; or instructor permission.
Term Typically Offered: Fall, Spring, Summer
Introduction to television criticism theory and to various critical methods with which television program texts may be analyzed. Current theoretical and critical issues in the function of criticism and the role of the critic are addressed through readings, writing assignments, screenings and discussion.

COMS 170. Data Analysis in Communication Research. 3 Units
Prerequisite(s): COMS 100C or equivalent with a grade of "C-" or better; or instructor permission.
Term Typically Offered: Fall, Spring, Summer
Introduction to the application of data analysis to the study of communication processes.

COMS 171. Survey Methods in Communication Research. 3 Units
Prerequisite(s): COMS 100C or equivalent with a grade of "C-" or better; or instructor permission.
Term Typically Offered: Fall, Spring, Summer
Techniques of survey research in communication, including sampling, questionnaire construction, interviewing, data analysis, and report writing. Each student designs and executes a research project.

COMS 172. Content Analysis. 3 Units
Prerequisite(s): COMS 100C or equivalent with a grade of "C-" or better; or instructor permission.
Term Typically Offered: Fall, Spring, Summer
Content analysis as a research technique in communication. Emphasizes design and execution of content analysis studies in a wide range of communication situations. Each student completes several short studies and a major project.

COMS 172A. Qualitative Research Methods in Communication. 3 Units
Prerequisite(s): COMS 100B, or instructor permission.
Term Typically Offered: Fall, Spring
Focuses on qualitative research methods as one methodological option to use in scholarly research. Emphasizes the design and execution of a qualitative research project using tools such as interviewing, focus groups, and observational methods. Each student designs and completes a research project.
COMS 173. Communication, Language and Culture. 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Spring only
Cross-cultural exploration of communication and social interaction; relationship between language and society; cross-cultural implications of values embedded in message production, transmission, and interpretation; studies of how language influences perception and organization of social reality; linguistics, information and message transmission.
Note: Restricted to junior and above or instructor permission.

COMS 174. International Communication. 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Fall, Spring, Summer
Movement of mediated messages across and between national boundaries. Topics include news and entertainment flow, media systems and philosophies, cultural dependency and imperialism, the new world information order and communication development.

COMS 175. Creative Problem Solving. 3 Units
Term Typically Offered: Fall, Spring
Creative problem solving techniques for use by individuals and groups. Topics include the nature of creative problem solving, barriers to creativity, clear problem definition, idea generation, decision making, group dynamics in creative situations, implementation of changes, and overcoming resistance to change.

COMS 176. Communication and Terrorism. 3 Units
Prerequisite(s): COMS 100A or instructor permission
Term Typically Offered: Spring only
This course addresses the communication aspects of terrorism, including both the ways terrorism has been used to make political and religious statements worldwide; how the media cover those messages; and how we talk about those messages and the coverage they receive. The course draws on the cutting-edge communication research from international/intercultural, political, mass communication, and computer-mediated communication sources. This is a course in the communication of terrorism. It is neither a course in the political science of terrorism nor in the criminal justice enforcement of counter-terrorism.

COMS 177. Virtual Communities on the Internet. 3 Units
Term Typically Offered: Fall, Spring
The nature of communication in virtual communities on the Internet and the impact that these communities have on traditional communication media. Topics include: the interaction of real and cyber communities, self-publishing, educational uses of virtual communities, virtual self-governance, artificial intelligent agents, and the issues of security, privacy, and anonymity. Students will participate in structured on-line activities.

COMS 178. Media, Sports, and Society. 3 Units
Term Typically Offered: Spring only
Examines and critiques the relationship between the mass media and sports. Reviews theoretical approaches for studying media and sports (including historical, sociological, psychological, political, and cultural studies perspectives), then examines how sport is mediated through literature, print journalism, radio, and television.

COMS 179. Social Media and Public Relations. 3 Units
Prerequisite(s): COMS 118 Survey of Public Relations
Term Typically Offered: Fall, Spring
Examine and apply public relations principles and strategies to research, plan, execute, and evaluate social media management on different platforms. Through discussion, simulation projects, and certificate education, students explore brand communication strategies with different social media tools, social media policy, influencer marketing, employee advocacy, crisis social media, and social media measurement.

COMS 180. Senior Seminar in Organizational Communication. 3 Units
Prerequisite(s): COMS 145; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer
Seminar on communication theories, techniques and research methodologies in the field of social and governmental organizational systems.

COMS 181. Senior Seminar in Small Group Communication. 3 Units
Prerequisite(s): COMS 105; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer
Seminar on the ways theories of group communication are realized in actual social settings.

COMS 182. Senior Seminar in Interpersonal Communication. 3 Units
Prerequisite(s): COMS 8, COMS 143, and completion of 12 units of upper division COMS courses including COMS100A.
Term Typically Offered: Fall, Spring, Summer
Seminar on advanced theories of interpersonal communication. Sample topics include relational development, relational termination, communication and interpersonal attraction, and communication competence. Students present one in-class report and complete a major research paper.

COMS 183. Senior Seminar in Media Issues and Ethics. 3 Units
Prerequisite(s): COMS 55 or JOUR 55; COMS 150; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring
Seminar on the functions and roles of communication media in contemporary society. Includes issues and ethical considerations associated with freedom, responsibility and control examined from the points of view of the media, the government and the public. Specific topics will vary.

COMS 184. Senior Seminar in Organizational Communication. 3 Units
Prerequisite(s): COMS 145; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring
Examine and apply public relations principles and strategies to research, plan, execute, and evaluate social media management on different platforms. Through discussion, simulation projects, and certificate education, students explore brand communication strategies with different social media tools, social media policy, influencer marketing, employee advocacy, crisis social media, and social media measurement.

COMS 184A. Multimedia Project Completion. 3 Units
Prerequisite(s): Instructor permission.
Corequisite(s): COMS 184A.
Term Typically Offered: Fall, Spring
Second of a two-semester senior project sequence. Students complete the project designed in COMS 184A. Projects are completed with assistance and feedback from the instructor, client, and working professionals.
COMS 185. Senior Practicum in Video Production. 3 Units
Prerequisite(s): COMS/FILM 124 with a final posted grade of C or better; COMS/FILM 128 with a final posted grade of C or better.
Term Typically Offered: Fall, Spring
Assignments in various phases of video production including creative use of camera, sound and lighting, editing, production design, production planning and management, and directing and producing. Students in first semester function as crew members for productions.
Note: May be repeated once for credit. Repeating students are expected to produce and direct a major student project. Cross listed: FILM 185.

COMS 186. Seminar in Health Communication. 3 Units
Term Typically Offered: Fall, Spring
Examines how health messages impact individuals, communities, and mass audiences. Critiques health communication research, raises awareness about health-related messages in our daily lives, applies theories of health communication, and critically analyzes how the creation, sending, and reception of health messages impacts society. Sample topics include doctor-patient communication, cross-cultural communication about health, and mass media effects of health-related images in media.

COMS 187. Issue Management and Case Studies in Public Relations. 3 Units
Prerequisite(s): COMS 118; completion of 12 units of upper division COMS courses.
Term Typically Offered: Fall, Spring
Examines the management of issues in the public and private sectors including knowledge and skills in the communication activities and thinking processes that affect an issue's development. Uses case studies of organizations—governmental agencies, businesses, and not-for-profit entities to assess issue development and management by examining the fundamental questions confronting organizations: What should the particular organization do and how should it do it? Examines criteria for selecting among alternative options, and the relation of the organization to its environment. Explores the broader social, legal, and ethical implications of the organization's activities.

COMS 188. Senior Seminar in Intercultural Communication. 3 Units
Prerequisite(s): COMS 116; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer
Critically examines and analyzes complex dynamics and concepts in communication and culture in a pluralistic society. Also relates various perspectives on intercultural communication theories and methods to an analysis of social interaction processes among culturally diverse groups. An interactive dimension includes problem-solving strategies.

COMS 189. Practicum in Communication Training. 3 Units
Prerequisite(s): COMS 145 and COMS 154 or instructor permission.
Term Typically Offered: Spring only
Students work in groups to complete organizational training projects within community organizations. After assessing the organization's needs, students design, conduct and evaluate training. Advanced readings and professional competencies are emphasized.

COMS 190. Human Communication on the Internet. 3 Units
Term Typically Offered: Fall only
Provides an in-depth study of communication models that summarize and explain the interaction of humans in electronic environments, especially the Internet. Students locate, organize, analyze, and synthesize the latest research in online communication and make connection between theoretical models and their own experiences.

COMS 191. New Media and Society. 3 Units
Term Typically Offered: Fall, Spring, Summer
The course examines contemporary social, cultural, political and economic topics regarding the adoption of digital media and the Internet. Students understand their role as citizens of a global knowledge-based society and the ethical dimensions brought by the new computer-enabled media environment.

COMS 192. Senior Seminar in Film. 3 Units
Prerequisite(s): Completion of the Film Studies upper and lower division core or COMS 142, and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Spring only
Research seminar that provides an in-depth investigation of film as an art form, a medium of mass communication and a means of personal expression. Subject will vary according to instructor. Cross listed: FILM 192.

COMS 194. Communication Studies - Related Work Experience. 3 - 6 Units
Prerequisite(s): Open only to upper division or graduate students with appropriate course preparation. Units may not be used to meet COMS major, minor or graduate course work requirements. Consent of Communication Studies Department faculty advisor required. No more than 12 units may be counted toward the degree.
Term Typically Offered: Fall, Spring
Supervised employment in a company or agency working on communication studies-related assignments, arranged through the Department of Communication Studies and the Cooperative Education Program office. Requires preparation of application packet, completion of a 6 month full-time or part-time work assignment, and a written report. Credit/No Credit

COMS 195. Internship in Communication Studies. 1 - 6 Units
Prerequisite(s): COMS 100A, minimum 2.3 overall GPA.
Corequisite(s): COMS 100A.
Term Typically Offered: Summer only
Directed work experience in the internship program. Supervision is provided by both instructional staff and the cooperating agency. Faculty approval required. Credit/No Credit
COMS 196R. Latin American Rhetoric. 3 Units
Prerequisite(s): COMS 100B
Term Typically Offered: Fall, Spring

This course combines historical and rhetorical perspectives to examine the development of Latin American public culture. Studying different types of public discourse that combine intellectual sophistication with literary merit (including speeches, essays, poetry, and art), will illuminate how a unique public culture developed in Latin America, born from the roots of European and indigenous traditions. As we analyze these texts, we will examine what contributions their authors make to the field of rhetoric and rhetorical theory.

COMS 199. Special Problems. 1 - 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students who wish to attempt independent work. Faculty approval required.
Credit/No Credit

COMS 200A. Intro To Graduate Studies--Disciplinary History and Conventions. 1 Unit
Term Typically Offered: Fall only

This course introduces students to graduate-level research in Communication Studies, acquainting students with the discipline generally, and the CSUS Department of Communication Studies specifically. During this course, students will learn the: culture and expectations of graduate study, areas of inquiry in the discipline, sources for advanced research (including journals and databases, etc.), and conventions such as academic writing. Students will also learn about disciplinary structures, requirements for various degrees, types of academic/scholarly organizations, and venues for showcasing research.
Note: Required; COMS 200A and 200B can be taken in any order, and
must be completed in the first two semesters of graduate study.

COMS 200B. Intro To Graduate Studies--Paradigm and Methods. 1 Unit
Term Typically Offered: Spring only

This course is an introduction and orientation to advanced research in Communication Studies, specifically focused on disciplinary paradigms and research methods. During this course, students will gain familiarity with the: culture and expectations of graduate study, various paradigms that underpin communication research, and the numerous methods used to research communication across various contexts, including quantitative, qualitative, critical. Students consider ways to successfully integrate into the communication discipline through a variety of class discussions, readings, and activities.
Note: Required; COMS 200A and 200B can be taken in any order, and
must be completed in the first two semesters of graduate study.

COMS 201. Communication Theory. 3 Units
Term Typically Offered: Fall, Spring

This course critically examines the theoretical and paradigmatic foundations of the communication discipline. Students will learn the role of theory in research, and analyze general theories of communication and specific theories of rhetoric, symbolic interaction, information processing, interpersonal communication, small group communication, persuasion, organizational communication, and mass communication. Students practice analyzing, synthesizing, and contrasting relevant bodies of literature and theory. Must be taken within first two semesters of graduate enrollment.
Note: Graduate standing or instructor permission required; Graduate Writing Intensive

COMS 202. Quantitative Research Methods in Communication Studies. 3 Units
Prerequisite(s): Graduate student status or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to advanced quantitative research methods. Students will demonstrate their ability to apply at least one research perspective to a significant topic of interest in the discipline. Students are expected to produce a well-crafted research proposal as part of a culminating experience.

COMS 203. Qualitative Research Methods in Communication Studies. 3 Units
Term Typically Offered: Fall, Spring

Introduction to advanced qualitative research methods. Students will critically review and analyze qualitative research, learn how to collect and analyze qualitative data, complete a qualitative research project about communication phenomena, and respond to the research projects of peers.

COMS 204. Rhetorical Criticism. 3 Units
Term Typically Offered: Fall, Spring

Intensive examination of the methods used by rhetorical critics to define, explicate, and understand both how meaning occurs in texts as well as the scope and mechanisms of meaning that influence public life. A major critical paper is prepared by each student.

COMS 206. Organizational Communication. 3 Units
Term Typically Offered: Fall, Spring

This course explores the foundations, research, and theories of organizational communication. Students examine and critique foundational theories and concepts in organizational research, and explore contemporary research topics. Students are expected to produce a well-crafted research project as part of a culminating experience.

COMS 207. Relational Communication. 3 Units
Term Typically Offered: Fall, Spring

This seminar explores communication concepts, theories, and methods used to understand a broad array of relationship types. Relational communication within interpersonal, professional, romantic, family, and friendship interactions will be investigated. Includes an exploration of germinial and current quantitative, qualitative, and critical research regarding relational communication. As a part of the culminating experience, students will develop a research project examining a relational communication topic of their choice (e.g., relationship stages, support, conflict, social networks, and competence).
COMS 208. International Communication. 3 Units
Term Typically Offered: Fall, Spring
This course uses qualitative (hermeneutic, ethnographic, discourse analysis) and quantitative methods to critically explore the infrastructure that allows for the movement of mediated messages across national boundaries, and the cultural, sociopolitical, and geopolitical effects of that transmission. Topics include news and entertainment flow, media systems and philosophies, cultural dependency and imperialism, the new world information order, communication development, and the role of racial, ethnic, gender, and national identity in an increasingly globalized mediasphere.

COMS 209. Social Movements. 3 Units
Term Typically Offered: Fall, Spring
This course is devoted to the rhetorical study of genre and social movements. Students will use a historical lens to examine how genre develops into societal change. Students will develop papers to explicate the rhetorical dimensions of areas of social change.

COMS 210. Media Effects. 3 Units
Term Typically Offered: Fall, Spring
Concentrated survey of mass media and an analysis of theories of media uses and effects. Students are required to conduct library research on a specific media-related topic and to present their findings orally.

COMS 211. Media and Culture. 3 Units
Term Typically Offered: Fall, Spring
Introduction to the major approaches and concepts that are central to the study of the intersection(s) between media and culture. Students investigate the social structures of media industries (technological, philosophical, aesthetic, economic, political, etc.) and their cultural products (media artifacts, created of image and sound), while also considering the historical and theoretical framework necessary for understanding this critical space.

COMS 212. Communication and Leadership. 3 Units
Term Typically Offered: Fall, Spring
This seminar explores the concept of leadership including current theory and research on the communicative aspects of leadership in a variety of contexts. Students will review a wide array of multidisciplinary scholarship using various methodologies through which leadership has been viewed. Leadership communication within organizations, small groups, and interpersonal settings will be explored. Students will develop a research project on a leadership topic of their choosing.

COMS 213. Rhetorical Theory. 3 Units
Term Typically Offered: Fall, Spring
Intensive examination of the development and current state of a variety of theoretical outlooks that inform rhetorical criticism. Relationship of theory and method is discussed.

COMS 214. Health Communication. 3 Units
Term Typically Offered: Fall, Spring
Rigorous survey of how health messages impact individuals, communities, and mass audiences. The course includes an analysis of health communication theories, an overview of how health communication plays a role in individual, social, and macro-levels of society, and an evaluation of intentional and unintentional media effects on health beliefs, attitudes, and behaviors.

COMS 215. Political Communication. 3 Units
Term Typically Offered: Fall, Spring
Examines the intersection of politics and mass communication in the United States. Topics will include normative theory of journalism; agenda-setting, framing, and priming; advertising; the sociology of news; war (including terrorism) and media; infotainment; media bias; hegemony theory; and the internet and politics.

COMS 216. Intercultural Communication. 3 Units
Term Typically Offered: Fall, Spring
This course introduces various theories, perspectives, and approaches to the study of intercultural communication to help understand the complex nature of intercultural communication research. The course considers intercultural communication in various contexts, such as a workplace, healthcare, media, tourism, and education.

COMS 217. Applied Organizational Communication. 3 Units
Term Typically Offered: Fall, Spring
This course asks students to consider the relationship between theory and practice in organizational communication research. Students will critically review relevant literature regarding applied organizational communication research. Students will apply organizational communication concepts, theories, and methods to their analysis of communication in organizations to craft a theoretically grounded, practically relevant study.

COMS 218. Conflict Management. 3 Units
Term Typically Offered: Fall, Spring
Review of theory and research regarding the role of communication in conflict management. The course considers conflict at interpersonal, group, organizational, and cultural levels.

COMS 219. Instructional Communication Theory. 3 Units
Term Typically Offered: Fall, Spring
Survey of dominant theories of instructional communication. Students read, study, and critique prevailing bodies of literature which have a bearing on the study and practice of instructional communication. Theories are used to help students reflect on their own experiences as teachers and students and to generate new ideas for research in instructional communication.

COMS 220. Instructional Communication Practicum. 3 Units
Term Typically Offered: Fall, Spring
Examination of communication theory and research in instructional or training contexts. Designed for beginning teachers or organizational trainers. Centers on those communication principles which contribute to greater student/client learning and satisfaction. Emphasis on the development and implementation of instructional communication packages for adult learners.
COMS 228. Corporate Advocacy and Public Policy. 3 Units
Term Typically Offered: Fall, Spring
Explores "corporate advocacy" as a kind of rhetorical, persuasive transaction between Corporate America and those in its environment. Seeks to understand corporate America's role in the "policy process" (broadly defined), by analyzing the constituted authority for policy formation, the actual institutions involved in such formation, the interaction between/among these centers of power, the difference between authority and influence between/among these centers of power and influence, and how corporate America uses rhetorical messages to enhance various goals.

COMS 230. Computer-Mediated Communication. 3 Units
Term Typically Offered: Fall, Spring
Instruction and analysis of human and social Computer-Mediated Communications. Covers from how digital media affects representation and narrative to research on current uses of the Internet and the theoretical frameworks applied to summarize it. Includes a component of Computer Literacy that will help students understand Computer-Mediated Communication and use online collaborative tools efficiently. No previous computer knowledge is required.

COMS 285. Colloquium for Teaching Communication Studies. 1 Unit
Term Typically Offered: Fall, Spring
This colloquium is designed to facilitate the development, refinement, and maintenance of effective pedagogical methods and strategies for teaching communication studies courses. Strongly encouraged for student teachers across all disciplines.

Note: May be repeated up to three times with permission of instructor.

COMS 295. Apprenticeship in Communication Studies. 1 - 3 Units
Term Typically Offered: Fall, Spring
Directed experience in research or teaching using an apprenticeship model. Students will work with faculty members to assist with teaching or research. Faculty and Graduate Committee approval required prior to enrollment.

Note: Faculty and Graduate Committee approval required prior to enrollment

Credit/No Credit

COMS 296A. Communication Research Methods. 1 Unit
Term Typically Offered: Fall, Spring
This one-unit module provides an in-depth look at a particular communication research method or data analysis technique. Content varies.

Note: 1 unit, repeatable.

COMS 296B. Communication Topics. 1 Unit
Term Typically Offered: Fall, Spring
This one-unit module provides an in-depth look at a particular communication research topic or theory. Content varies.

Note: Course may be repeated so long as the topic is different.

COMS 297. Directed Study and Comprehensive Examination. 1 - 3 Units
Prerequisite(s): Must be advanced to candidacy.
Term Typically Offered: Fall, Spring
Structured and supervised reading program for MA candidates preparing for comprehensive examinations. Should be taken after completion of all other requirements for the degree. Credit given upon successful completion of comprehensive examinations. Examining committee determines the number of units to be credited.

Note: Open to students who have been advanced to candidacy and have secured permission of the chair of their examining committee and the Graduate Coordinator.

COMS 298. Colloquium In Communication. 3 Units
Term Typically Offered: Fall, Spring
A seminar on a communication topic of contemporary concern. Topic may change from semester to semester. May be taken for credit more than once, provided topic is not repeated.

COMS 299. Independent Study. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading open to students wishing to attempt independent work and research. Faculty and Graduate Committee approval required the semester prior to enrollment.

Credit/No Credit

COMS 500. Culminating Experience. 3 - 6 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis or project committee.
Term Typically Offered: Fall, Spring
Completion of a thesis or project approved for the Master's degree. Thesis or project prospectus committees determine the number of units to be credited.

Computer Engineering (CPE)

CPE 64. Introduction to Logic Design. 4 Units
Prerequisite(s): CSC 15 or CSC 25 or ENGR 50.
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Covers the following topics: logic gates, binary number system, conversion between number systems, Boolean algebra, Karnaugh maps, combinational logic, digital logic design, flip-flops, programmable logic devices (PLDs), counters, registers, memories, state machines, designing combinational logic and state machines into PLDs, and basic computer architecture. Lab emphasizes the use of software equation entry design tools, the use of a schematic entry, and the use of a logic simulation design tool. Lab assignments are design-oriented. Lecture three hours; laboratory three hours.

Cross listed: EEE 64
CPE 64P. Peer-Assisted Learning CPE 64. 1 Unit
Corequisite(s): CPE 64
Term Typically Offered: Fall, Spring

Students concurrently enrolled in CPE 64 work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of CPE 64 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success.
Credit/No Credit

CPE 64W. Introduction to Logic Design Workshop. 1 Unit
Corequisite(s): CPE 64.
Term Typically Offered: Fall, Spring

Designated to assist students in developing a more thorough understanding of logic simulation and logic design. Focus is on problem solving and design. Activity two hours.
Cross Listed: EEE 64W; only one may be counted for credit.
Credit/No Credit

CPE 138. Computer Networking Fundamentals. 3 Units
Prerequisite(s): CSC 35, CSC 60, CSC 130. Not currently enrolled in CSC/ CPE 138.
Term Typically Offered: Fall, Spring

Cross Listed: CSC 138; only one may be counted for credit.

CPE 142. Advanced Computer Organization. 3 Units
Prerequisite(s): CSC 137 or CPE 166 and CPE 185.
Term Typically Offered: Fall, Spring

Design and performance issues of computers. Instruction set architecture, computer arithmetic, processor design, survey of contemporary architectures, interfacing I/O devices, hierarchal memory design and analysis, parallelism and multiprocessing, distributed systems, techniques for enhancing performance, and an introduction to EDA tools for design and verification of computers. Design and simulation of a microcomputer in an HDL.
Note: Open to students with full CSC or CPE major standing only. Cross Listed: CPE 142; only one may be counted for credit.

CPE 144. Dsp Architecture Design. 3 Units
Prerequisite(s): CPE 142.
Term Typically Offered: Fall, Spring


CPE 151. CMOS and Digital VLSI Design. 3 Units
Prerequisite(s): CPE 64 and EEE 108.
Term Typically Offered: Fall, Spring

Introduction to CMOS logic gates and the design of CMOS combinational and sequential functions at the gate level, including CMOS memory. CMOS transistor theory is covered including: DC equations, threshold voltage, body effect, subthreshold region, channel length modulation, tunneling, and punch through. A basic exposure to VLSI includes: CMOS processing technology, layout, and CMOS logic design including power, delay and timing considerations. Students will use industry standard Computer Aided Design tools to verify designs and layouts.

CPE 153. Vlsi Design. 3 Units
Prerequisite(s): CPE 151.
Term Typically Offered: Fall, Spring

Review basic CMOS VLSI technology, circuit characterization and performance estimation, and provides detailed information on synthesis, placing and routing, clocking strategies, quality and reliability, and I/O structures. Design examples, design techniques, and testing techniques will be presented via current EDA design tools. Students assigned one project from concept design through validation.

CPE 159. Operating System Pragmatics. 3 Units
Prerequisite(s): CSC 139.
Term Typically Offered: Fall, Spring

Application of operating system principles to the design and implementation of a multi-tasking operating system. Students will write an operating system for a computer system. Topics include scheduling of processes, control and allocation of computer resources and user interfacing.
Cross Listed: CSC 159; only one may be counted for credit.

CPE 166. Advanced Logic Design. 4 Units
Prerequisite(s): CPE 64, ENGR 17.
Term Typically Offered: Fall, Spring

VHDL and Verilog Hardware Description Languages are studied and used on the following advanced level logic design topics: synchronous state machines, asynchronous state machines, metastability, hazards, races, testability, boundary scan, scan chains, and built-in self-tests. Commercial Electronic Design Automation (EDA) toolssets are used to synthesize lab projects containing a hierarchy of modules into Field Programmable Gate Arrays (FPGAs). Post synthesis simulations by these same tools verify the design before implementation on rapid prototyping boards in the lab.

CPE 185. Computer Interfacing. 4 Units
Prerequisite(s): CPE 64, CSC 35 and CSC 60.
Term Typically Offered: Fall, Spring

Design of microcomputer systems including memory systems, parallel and serial input/output, timer modules, and interrupt structures; designing "C" language code, in laboratory, to exercise interface modules of parallel and serial input/output, timer modules, and interrupts; extensive study of interrupt handlers, assemblers, linkers, and loaders. Practical features of interfaces, handshaking techniques, displays, keypads, and trackballs are included.
CPE 186. Computer Hardware System Design. 3 Units
Prerequisite(s): CPE 185 or EEE 174.
Term Typically Offered: Fall, Spring

Study of Intel and Motorola architectures, bus structures, interrupts, memory interface and controllers, bus arbitration, DMA controllers, I/O interface, bridges and microcontroller. Electromagnetic compatibility and regulations, cabling and shielding, grounding, digital circuit noise and layout.

CPE 187. Embedded Systems Design. 3 Units
Prerequisite(s): CPE 185 or EEE 174.
Term Typically Offered: Fall, Spring

Introduction to embedded systems with applied projects. The ISA, memory map, register architecture and configuration for one processor are studied in depth. Topics include: Overview of embedded systems; hardware, firmware, and software design; interrupt programming; application of contemporary interfacing protocols like USB and Bluetooth; use of an integrated development environment (IDE) for development; functional debugging; Real Time Operating Systems (RTOS) considerations and scheduling. One two hour lecture and one three hour lab per week.

CPE 190. Senior Design Project I. 2 Units
Prerequisite(s): CPE 166, CPE 187, EEE 108
Corequisite(s): CPE 142
Term Typically Offered: Fall, Spring

Centers on developing hardware and software project planning and engineering design skills. Emphasis is placed on design philosophies, problem definition, project planning and budgeting, written and oral communication skills, working with others in a team arrangement, development of specifications and effective utilization of available resources. Lecture one hour per week, laboratory three hours per week.

CPE 191. Senior Design Project II. 2 Units
Prerequisite(s): CPE 190, and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Continuation of CPE 190. Students are expected to continue the project started by design teams in CPE 190. The hardware will be completed, tested and redesigned if necessary. At the same time, software for the project will be finished and debugged. The final results of the team project will be presented to the CPE faculty and students at a prearranged seminar. Lecture one hour, laboratory three hours.

CPE 195. Fieldwork in Computer Engineering. 1 - 15 Units
Prerequisite(s): Petition approval by Program Coordinator.
Term Typically Offered: Fall, Spring

Directed observations and work experience in computer engineering with firms in the industry or public agencies. Supervision is provided by the instructional staff and the cooperating agencies. Faculty approval required.

Note: May be repeated for credit.

Credit/No Credit

CPE 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CPE 195B. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CPE 195C. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CPE 199. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Open only to those students who appear competent to carry on individual work. Admission to this course requires approval of the faculty member under whom the individual work is to be conducted, in addition to the approval of the advisor. May be repeated for credit.

CPE 201. Research Methodology. 2 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Summer

Immersion in the discourse of Computer Engineering: genres, literacies, stylistic conventions, research methodology. Collective and individual study of selected issues and problems relating to fields of study in the Computer Engineering. Orientation to the requirements for the master’s degree culminating experience.

Note: Must be taken in the first semester of the graduate program.

Credit/No Credit

CPE 273. Hierarchical Digital Design Methodology. 3 Units
Prerequisite(s): CSC 205, EEE 285 or their equivalents.
Term Typically Offered: Fall, Spring

Advanced logic modeling, simulation, and synthesis techniques. Topics include modeling, simulation, and synthesis techniques, using Hardware Description Language (HDL's), Register Transfer Level (RTL) representation, high level functional partitioning, functional verification and testing, computer-aided logic synthesis, logical verification and testing, timing and delay analysis, automated place and route process’, and design with Application Specific Integrated Circuits (ASICs) and programmable logic.
CPE 274. Advanced Timing Analysis.  3 Units
Prerequisite(s): EEE 273, CSC 273, CPE 273 or instructor permission.
Term Typically Offered: Fall, Spring
Timing analysis of Application Specific Integrated Circuit (ASIC) designs: Topics include ASIC design methodology, static timing analysis, timing design constraints, design reports, clock timing issues, timing exceptions, operating conditions, hierarchical analysis, analyzing designs with asynchronous logic, performance measurement and power issues. Cross-listed: EEE 274; only one may be counted for credit.

CPE 280. Advanced Computer Architecture.  3 Units
Prerequisite(s): CSC 205, fully classified graduate status.
Term Typically Offered: Fall, Spring
Introduction to parallel architecture covering computer classification schemes, fine and coarse grain parallelism, processor interconnections, and performance issues of multiprocessor systems. Includes parallel and pipelined instruction execution, structure of multiprocessor systems, memory hierarchy and coherency in shared memory systems, programming issues of multiprocessor systems, arithmetic pipeline design, and design for testability.

CPE 296T. Digital Speech Processing.  3 Units
Prerequisite(s): EEE 181 or instructor permission.
Term Typically Offered: Fall, Spring
The objective of this course is to cover the digital processing of speech signals. Topics include speech production and perception, speech processing in the time frequency domains. Short-time energy and Short-time Fourier analysis, homomorphic and linear predictive coding methods. Also covered are speech coding, basic introduction of text-to-speech synthesis and speech recognition. Cross listed: EEE 296T.

CPE 299. Special Problems.  1-3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Open to qualified students who wish to pursue problems of their own choice. Projects must have approval and supervision of a faculty advisor.

CPE 500. Culminating Experience.  5 Units
Prerequisite(s): Advanced to candidacy and graduate coordinator’s permission.
Term Typically Offered: Fall, Spring
Completion of a thesis or project approved for the master's degree. Note: May be repeated for credit.

CSC 1A. Introduction to Computer Science for Advanced Students.  3 Units
Term Typically Offered: Fall, Spring
Same material as covered in CSC 1 but intended for students who already have significant knowledge of the fundamental concepts of computers and/or computer programming. Students must attend the orientation session during the first class meeting. Two placement tests, one on programming and one on concepts, will be scheduled and used to determine student’s prior preparation. Note: May be taken by those wishing to obtain credit by examination. Please refer to examination credit guidelines in the University catalog. Not open to students who have received credit for CSC 1 or MIS 5.
Credit/No Credit

CSC 5. Personal Computing.  3 Units
Term Typically Offered: Fall, Spring
Introduction to the role and use of personal computers, emphasizing the use and relevancy of common software for word processing, database, spreadsheet analysis, graphics, and communications. Examination of the personal computing milieu and the applications environment. Lecture two hours, technical activity and laboratory two hours.

CSC 8. Introduction to Internet Technologies.  3 Units
Prerequisite(s): Basic computer literacy recommended.
Term Typically Offered: Summer only
Internet applications such as email, instant messaging, file transfer, secure communications, the web, and related tools and protocols. Basics of the web-publishing process and methods used to locate authoritative information on the internet. Webpage design, internet security and emerging technologies on the internet.

CSC 8S. Self-Paced Introduction to Internet Technologies.  3 Units
Prerequisite(s): Basic computer literacy recommended.
Term Typically Offered: Fall, Spring
Covers the same material as CSC 8. Introduction to Internet Technologies. Provided by electronic means in addition to meetings for orientation, laboratory demonstrations, and tests. Internet applications such as Email, instant messaging, file transfer, secure communications, the Web, and related tools and protocols. Basics of the Web-publishing process and methods used to locate authoritative information on the internet. Webpage design, Internet security and emerging/declining technologies on the internet.
Credit/No Credit

CSC 10. Introduction to Programming Logic.  3 Units
Prerequisite(s): Math 11 or equivalent
Term Typically Offered: Fall, Spring
Introduction to computer science with an emphasis on programming concepts and methodology. Intended to assist students with little or no programming experience to understand the basic principles of programming logic. Topics include computer hardware and software, problem solving and algorithm development, flow of control, modular design using techniques that can be applied to common programming languages. Lecture two hours, technical activity and laboratory two hours.
CSC 10A.  Accelerated Introduction to Programming Logic.  3 Units  
Term Typically Offered: Fall, Spring  

Introduction to computer science with an emphasis on programming concepts, logic, and methodology, computer hardware and software, problem solving and algorithm development, flow of control, and modular design. Accelerated and more in-depth study of programming concepts than CSC 10. Intended for computer science and computer engineering majors who have little or no programming experience. Lecture two house, technical activity and laboratory, two hours. Not open to students who have received credit for CSC 10. Prerequisite: Math 11  

CSC 15.  Programming Concepts and Methodology I.  3 Units  
Prerequisite(s): CSC 10, or programming experience in a high-level programming language. Not currently enrolled in CSC 15.  
Term Typically Offered: Fall, Spring, Summer  

Programming concepts using an object-oriented programming language. Introduction to methodologies for program design, development, testing, and documentation. Topics include program design, algorithm design, number systems, classes and objects, methods (functions), control structures, arrays, and interactive input/output. Lecture two hours, technical activity and laboratory two hours.  

CSC 15P.  Peer-Assisted Learning CSC 15.  1 Unit  
Corequisite(s): CSC 15  
Term Typically Offered: Fall, Spring  

Students concurrently enrolled in CSC 15 work through faculty-designed problem sets under the guidance of a trained student facilitator to improve their understanding of CSC 15 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours. Credit/No Credit  

CSC 15W.  Programming Methodology I Workshop.  1 Unit  
Corequisite(s): CSC 15  
Term Typically Offered: Fall, Spring, Summer  

Designed to assist students in developing a more thorough understanding of programming methodology and problem solving techniques. Activity two hours. Credit/No Credit  

CSC 20.  Programming Concepts and Methodology II.  3 Units  
Prerequisite(s): CSC 15  
Term Typically Offered: Fall, Spring  

Application of object-oriented techniques for systematic problem analysis and specification, design, coding, testing, and documentation. Semester-long project approach emphasizing larger programs. Managing program complexity using abstraction. Introduction to algorithm analysis and Big-O notation. Advanced language features. Basic sorting and searching algorithms. Recursion. Lecture two hours, technical activity and laboratory two hours.  

CSC 20P.  Peer-Assisted Learning CSC 20.  1 Unit  
Corequisite(s): CSC 20  
Term Typically Offered: Fall, Spring  

Students concurrently enrolled in CSC 20 work through faculty-designed problem sets under the guidance of a trained student facilitator to improve their understanding of CSC 20 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours. Credit/No Credit  

CSC 21.  First Year Seminar: Becoming an Educated Person.  3 Units  
General Education Area/Graduation Requirement: Understanding Personal Development (E)  
Term Typically Offered: Fall only  

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Development of information competence and computer literacy. Students interact with fellow students and the seminar leader to build a community of academic and personal support.  

CSC 22.  Visual Programming in BASIC.  3 Units  
Prerequisite(s): Intermediate Algebra.  
Term Typically Offered: Fall, Spring  

Computer Programming using Visual Basic. Topics include the Visual Basic Integrated Development Environment, visual user interface development, concepts of object-oriented programming, variables, control structures, arrays, functions, subroutines, strings, files, and database access. Applications will be created in areas such as business, games, and multimedia. Lecture two hours, technical activity and laboratory two hours.  

CSC 25.  Introduction to C Programming.  3 Units  
Term Typically Offered: Fall only  

Topics include: types, operators, control structures, input/output, arithmetic operations, the C library and preprocessor, functions and parameters, arrays, strings, pointers, and structures. Program design and style will be emphasized. Students will use a compiler.  

Note: Students with significant programming experience should take CSC 60 rather than CSC 25. Lecture two hours, technical activity and laboratory two hours.  

CSC 28.  Discrete Structures for Computer Science.  3 Units  
Prerequisite(s): Score of 76 or higher on ALEKS PPL exam or MATH 26A or MATH 29 or MATH 29B or MATH 30; and CSC 20. CSC 20 and MATH 30 may be taken concurrently.  
Term Typically Offered: Fall, Spring  

Introduction to the essential discrete structures used in Computer Science, with emphasis on their applications. Topics include: counting methods, elementary formal logic and set theory, recursive programming, digital logic and combinational circuits, real number representation, regular expressions, finite automata.  

CSC 35.  Introduction to Computer Architecture.  3 Units  
Prerequisite(s): CSC 15.  
Term Typically Offered: Fall, Spring  

Internal representation of numeric and non-numeric data, assembly level machine architecture, addressing modes, subroutine linkage, polled input/output, interrupts, high-level language interfacing, macros and pseudo operations. Lecture two hours, technical activity and laboratory two hours.
CSC 60. Introduction to Systems Programming in UNIX. 3 Units
Prerequisite(s): CSC 20, CSC 35.
Term Typically Offered: Fall, Spring
Features of the C language commonly used in systems programming, application to systems programming in a UNIX environment. Topics include C preprocessor macros, I/O, bit-manipulation facilities, timesharing system concepts, file permissions, shell script programming, make files and source code control, basic system calls like fork and exec, pointers and dynamic memory allocation, libraries and relocation and linking concepts including assembler handling of symbol tables. Prior knowledge of a C like programming language is presumed.

CSC 80. Web Development with HTML/XHTML and Tools. 3 Units
Prerequisite(s): CSC 8 or equivalent computer and Internet experience.
Term Typically Offered: Fall, Spring
Hands-on course covering the processes and guidelines for creating and customizing interactive webpages. Emphasis on use of HTML/XHTML, CSS, and tools to create webpages. HTML/XHTML syntax to create, format, and link documents. Use of tables, graphics, styles, forms, multimedia, and other features in webpages. Effective webpage design and website organization. Lecture two hours and technical activity and laboratory two hours.

CSC 110. Introduction to Programming Logic for Teachers. 3 Units
Term Typically Offered: Fall, Spring, Summer
An introduction to computer science with an emphasis on programming concepts and methodology. Intended to assist students with no programming experience to understand the basic principles of programming logic for computational thinking. Programming language is block-style. Topics include: computer devices and software, programming concepts and methodology, block-style programming, K-12 computer science curriculum development for introduction to computational thinking.

CSC 111. Programming Concepts and Methodology for Teachers. 4 Units
Prerequisite(s): CSC 110
Term Typically Offered: Fall, Spring, Summer
Computer science teacher professional development based on equity, curriculum development, and computer science. Programming languages including blocky-style, web, and an object-oriented programming language. Introduction to computer science methodologies for program design, development, testing, and documentation. Computer science content includes program design, algorithm design, number systems, classes and objects, methods, control structures, arrays, and simple interactive input/output. Pedagogical content includes strategies for teaching and retaining students by developing engaging learning experiences and designing student assessment in computer science.

CSC 112. Data Structures, Algorithms, and Software Engineering for Teachers. 3 Units
Prerequisite(s): CSC 111
Term Typically Offered: Fall, Spring, Summer
Introduction of data structures, algorithms, and software engineering to give teachers the background to lead instruction in computer science curriculum. Topics include linked lists, queues, sets, algorithm analysis, recursion, basic searching, and sorting. Software Engineering topics include the methodologies and techniques in planning, engineering and implementing a software system to solve a problem, and social, ethical, and legal impacts of computing. Pedagogical content includes strategies for teaching students by developing engaging learning experiences in computer science.

CSC 113. Computer Networking and Cyber Security for Teachers. 3 Units
Prerequisite(s): CSC 110 and CSC 111. Not currently enrolled in CSC 113.
Term Typically Offered: Fall, Spring, Summer
Introduction to basic components of digital devices and computing systems. Overview, structure, and types of computer networks. The layered model of networks and common protocols in each layer, such as HTTP and IP. Introduction to common network applications such as web, email, and videos. Common cyber security problems and solutions. Cyber safety. Pedagogical content includes strategies for teaching and retaining students by developing engaging learning experiences and designing student assessment in computer science.

CSC 114. Digital Evidence and Computer Crime. 3 Units
Prerequisite(s): CSC 1 and CSC 8 or CSC 8S or CSC 80; or instructor permission.
Term Typically Offered: Fall, Spring
Topics include technology and law, computer basics for digital investigations, network basics for digital investigations, investigation of computer crime, and the handling of digital evidence.

CSC 115. Internet Security. 3 Units
Prerequisite(s): CSC 1 and CSC 8 or CSC 8S or CSC 80; or instructor permission.
Term Typically Offered: Summer only
Internet security problems and discussion of potential solutions: network vulnerabilities and attacks, secure communication and use of cryptography, Internet security protocols and tools to defend against network attacks, network intrusion detection, and wireless network security. Survey and use of software tools for network security.

CSC 116. Cyber Forensics. 3 Units
Prerequisite(s): CSC 1 and CSC 8 or CSC 8S or CSC 80; or instructor permission.
Term Typically Offered: Summer only
Fundamentals of computer forensics and cyber-crime scene analysis including laws, regulations, and international standards; formal methodology for conducting security incident investigations; categories of electronic evidence. Projects involving digital forensic tools.
CSC 120. Web Server Administration. 3 Units
Prerequisite(s): CSC 80.
Term Typically Offered: Fall, Spring
Managing and maintaining Web servers. Administering open source and commercial Web servers, Web hosting alternatives, professional standards and practices of website hosting, Web server installation, configuration, management, and security. Selecting and using technologies to support professional quality websites. Lecture two hours; technical activity and laboratory two hours.

CSC 121. Client-Side Web Programming. 3 Units
Prerequisite(s): CSC 22, CSC 80 or equivalents; OR PCSC/CSC Major, CSC 60, CSC 130.
Term Typically Offered: Fall, Spring

CSC 122. Web Database Applications. 3 Units
Prerequisite(s): CSC 10 or CSC 22; and CSC 80 or equivalent.
Term Typically Offered: Fall, Spring
Fundamentals of building effective database-driven web applications. Particular emphasis on database access via web interfaces. Introduction to database management systems, their structure and usage, SQL, integrating web applications with databases, design and implementation of dynamic web database applications.

CSC 123. Web Application Development. 3 Units
Prerequisite(s): CSC 22, CSC 121, CSC 122, or equivalent experience; OR PCSC/CSC Major, CSC 60, CSC 134.
Term Typically Offered: Fall, Spring
Developing multi-tiered enterprise-level Web applications. Standards of Web services and other current Web technologies, including XML, AJAX, and server-side programming such as Java EE, .NET, or PHP. Development of Web applications such as those used for e-commerce, e-business, and content management. Format consists of two 1.5 hour lecture/lab sessions per week.

CSC 126. 3D Computer Modeling. 3 Units
Prerequisite(s): CSC 10 or ART 97 or equivalent.
Term Typically Offered: Fall only
Techniques and processes to create 3D computer models and environments. Exercises, assignments and projects designed to build skill levels with 3D computer modeling tools. Demonstrations and workshops in the use of 3D computer modeling software. Critiques, discussion and presentations to develop students' conceptual grasp of 3D computer modeling and virtual reality environments. Example applications in art/new media and computer gaming.

Note: May be taken twice for credit. Cross-listed as ART 142.

CSC 127. 3D Computer Animation. 3 Units
Prerequisite(s): ART 142 or CSC 126.
Term Typically Offered: Spring only
Creative skills and techniques for animating 3D computer-modeled objects/environments. Topics include animation techniques; keyframing and interpolation; deformation and morphing; path control; skeletal animation; model rigging and skinning; forward and inverse kinematics, constraints and IK solvers; particle systems; fluid, cloth, hair, and fur simulation; shape keys; and soft body animation. Emphasis on both skill development and creative application of modeling and animation techniques. Includes demos, in class and homework exercises, and self-directed projects. Cross-listed: ART 143.

CSC 130. Data Structures and Algorithm Analysis. 3 Units
Prerequisite(s): CSC 20, CSC 28, CSC 28 may be taken concurrently. Not currently enrolled in CSC 130.
Term Typically Offered: Fall, Spring
Specification, implementation, and manipulation of abstract data types and their structures: balanced trees, priority queues, sets, hash tables, and graphs; recursion; searching and sorting algorithms; asymptotic analysis; NP completeness; fundamental graph algorithms including graph search, shortest path, and minimum spanning trees.

CSC 131. Computer Software Engineering. 3 Units
Prerequisite(s): CSC 130; may be taken concurrently. Not currently enrolled in CSC 131.
Term Typically Offered: Fall, Spring
Principles of Software Engineering covering the software development life cycle, including software requirements engineering (elicitation, modeling, analysis and specification), software design, software implementation and testing. Main topics include various software development process models, method and techniques for specifying requirements, architectural and detailed design specification, prototyping, top-down and bottom-up software implementation and testing. Topics also include project management, project documentation and the development of communication skills through written documentation and oral presentation.

CSC 132. Computing Theory. 3 Units
Prerequisite(s): CSC 28, CSC 130; CSC 130 may be taken concurrently.
Term Typically Offered: Fall, Spring
Introduction to computing theory with examples and applications. Automata and formal languages; language recognition and generation; language hierarchy; deterministic and non-deterministic automata; regular expressions; pushdown automata and context-free grammars; properties of regular and context-free languages; Turing machines; computable and noncomputable functions; decidability.

CSC 133. Object-Oriented Computer Graphics Programming. 3 Units
Prerequisite(s): CSC 130, CSC 131, not currently enrolled in CSC 133.
Term Typically Offered: Fall, Spring
Introduction to computer graphics and to advanced topics in object-oriented programming. Mobile application development; implementation of event-driven systems; advanced object-oriented concepts such as inheritance and polymorphism; implementation of software design patterns; graphical user interface development; fundamentals of 2D graphics systems. Application of these topics to mobile programming.
### CSC 134. Database Management Systems. 3 Units

**Prerequisite(s):** CSC 130, and not currently enrolled in CSC 134  
**Term Typically Offered:** Fall, Spring

Entity-Relationship (ER) model; relational model; relational database design by ER-to-relational mapping; design of applications using database technology; SQL; schema definition, constraints, and queries; relational algebra; data normalization; access methods such as indexing and hash structures; introduction to transaction processing.

### CSC 135. Computability and Formal Languages. 3 Units

**Prerequisite(s):** CSC 28, CSC 35, CSC 130, and not currently enrolled in CSC 135.  
**Term Typically Offered:** Fall, Spring

Introduction to limits of computation and techniques for specifying and processing formal languages. Regular languages, regular expressions, finite automata, properties and limitations. Context-free languages, grammars, pushdown automata, properties and limitations. Applications in lexical and syntax analyses, including recursive-descent or table-driven parsing. Turing machines, halting problem, reductions. Introduction to functional programming and related programming language features.

### CSC 136. Programming Languages. 3 Units

**Prerequisite(s):** CSC 35, CSC 132.  
**Term Typically Offered:** Fall, Spring

Evolution and characteristics of programming languages. Scripting, procedural, object-oriented, functional and logic paradigms. Language specification; interpreters and compilers; virtual machines; parsing techniques. Design and implementation of selected features of programming languages. Programming languages used in the development of intelligent systems, with introduction to Artificial Intelligence. Trends in programming languages.

### CSC 137. Computer Organization. 3 Units

**Prerequisite(s):** CSC 28, CSC 60, CSC 130, not currently enrolled in CSC 137.  
**Term Typically Offered:** Fall, Spring

Introduction to computer organization and architecture. Combinational devices, sequential and synchronized circuits, memory organization, CPU architecture and organization, bus structures, input/output, interrupts, DMA, memory hierarchy, introduction to instruction level parallelism, multithreading, and multiprocessing.

### CSC 138. Computer Networking Fundamentals. 3 Units

**Prerequisite(s):** CSC 60, CSC 130. Not currently enrolled in CSC/CPE 138.  
**Term Typically Offered:** Fall, Spring


### CSC 139. Operating System Principles. 3 Units

**Prerequisite(s):** CSC 60 and CSC 130 and either CSC 137 or CPE 185. Not currently enrolled in CSC 139.  
**Term Typically Offered:** Fall, Spring

Concepts, principles, fundamental issues, organization and structure of contemporary operating systems. Topics include processes, threads, concurrency, parallelism on multi-processor and multi-core systems, CPU scheduling, inter- process communication and synchronization, deadlocks, real and virtual memory management, device management, file systems, security, and protection. Lecture three hours.

### CSC 140. Advanced Algorithm Design and Analysis. 3 Units

**Prerequisite(s):** CSC 130.  
**Term Typically Offered:** Spring only


### CSC 142. Advanced Computer Organization. 3 Units

**Prerequisite(s):** CSC 137 or CPE 166 and CPE 185.  
**Term Typically Offered:** Fall, Spring

Design and performance issues of computers. Instruction set architecture, computer arithmetic, processor design, survey of contemporary architectures, interfacing I/O devices, hierarchical memory design and analysis, parallelism and multiprocessing, distributed systems, techniques for enhancing performance, and an introduction to EDA tools for design and verification of computers. Design and simulation of a microcomputer in an HDL.  
**Note:** Open to students with full CSC or CPE major standing only. Cross Listed: CPE 142; only one may be counted for credit.

### CSC 148. Modeling and Experimental Design. 3 Units

**Prerequisite(s):** MATH 26B or MATH 31, STAT 50 or ENGR 115, and proficiency in a programming language.  
**Term Typically Offered:** Not offered

Modeling and simulation techniques; Monte Carlo methods; queuing theory; model formulation, data collection and analysis, experimental design; model verification and validation.

### CSC 151. Compiler Construction. 3 Units

**Prerequisite(s):** CSC 135  
**Term Typically Offered:** Fall only

Practical approach to compiler design and implementation. Organization of a compiler, algorithms for lexical, syntactic and semantic analysis, recursive descent and/or LALR parsing, organization of symbol tables, error detection and recovery, object code generation. Modular design will be emphasized.

### CSC 152. Cryptography. 3 Units

**Prerequisite(s):** CSC 60, CSC 130; and STAT 50 or ENGR 115  
**Term Typically Offered:** Fall only

Introduction to design and analysis of cryptographic systems. Symmetric cryptography: Block ciphers and secure hash functions. Asymmetric cryptography: Key exchange and public-key systems. Authentication and encryption in an adversarial model. Simple cryptanalysis. Protocol design and analysis.
CSC 153. Computer Forensics Principles and Practices. 3 Units  
Prerequisite(s): CSC 138 or CPE 138.  
Term Typically Offered: Spring only  
Fundamentals of computer forensics, cyber-crime scene analysis and electronic discovery. Technical and formal methodology for conducting security incident investigations; file systems and storage analysis, data hiding techniques, network forensics; projects involving using, understanding, and designing digital forensics tools; anti-forensics; legal issues and standards.

CSC 154. Computer System Attacks and Countermeasures. 3 Units  
Prerequisite(s): CSC 138 or CPE 138.  
Term Typically Offered: Fall only  
Introduction to network and computer security with a focus on how intruders gain access to systems, how they escalate privileges, and what steps can be taken to secure a system against such attacks. Topics include: Perimeter defenses, intrusion detection systems, social engineering, distributed denial of service attacks, buffer overflows, race conditions, trojans, and viruses.

CSC 155. Advanced Computer Graphics. 3 Units  
Prerequisite(s): CSC 133.  
Term Typically Offered: Fall only  
Modeling, viewing, and rendering techniques in 3D computer graphics systems. Topics include modeling systems and data structures; polygonal and parametric surface representation; transformations, windowing, clipping and projections in 3D; hidden surface removal algorithms; techniques for realism such as shading, shadows, highlights, and texture; fractals and procedural models; introduction to animation; hardware support for computer graphics; and the application of graphics principles to virtual reality systems and 3D games.

CSC 159. Operating System Pragmatics. 3 Units  
Prerequisite(s): CSC 139.  
Term Typically Offered: Fall, Spring  
Application of operating system principles to the design and implementation of a multitasking operating system. Students will write an operating system for a computer platform. Topics include: scheduling of processes, control and allocation of computer resources, and user interfacing. Cross Listed: CPE 159; only one may be counted for credit.

CSC 163. Parallel Programming with GPUs. 3 Units  
Prerequisite(s): CSC 60, CSC 130, CSC 137; and either MATH 30 or MATH 26A.  
Term Typically Offered: Fall, Spring  
Parallel programming with emphasis on developing GPU computing applications. Topics include the GPU architecture and programming model, mapping computations to parallel hardware, parallel computation patterns, parallel programming optimization techniques, and application case studies.

CSC 165. Computer Game Architecture and Implementation. 3 Units  
Prerequisite(s): CSC 130; CSC 133; MATH 26A or MATH 30; PHYS 5A or PHYS 11A.  
Term Typically Offered: Spring only  
Architecture and implementation of computer game systems. Topics include game engine architecture; screen management and rendering control; geometric models; algorithms and data structures for spatial partitioning, occlusion, and collision detection; real-time interactive 3D graphics and animation techniques; behavioral control for autonomous characters; simulation of physical phenomena; sound and music in games; optimization techniques; multi-player games and networking; game development tools and environments. Substantial programming and project work.

CSC 170. Software Requirements and Specification. 3 Units  
Prerequisite(s): CSC 131.  
Term Typically Offered: Spring only – odd years  
Analysis and specification of functional and non-functional requirements for real-time and non-real-time software systems in the context of a software development lifecycle. Determining customer and user software requirements and ensuring that specifications are correct, complete, and testable. Includes modeling techniques, methods for representing real-time requirements, and the use of Computer-Aided Software Engineering (CASE) tools to illustrate analysis concepts.

CSC 171. Software Engineering Project Management. 3 Units  
Prerequisite(s): CSC 131.  
Term Typically Offered: Spring only – even years  
Fundamental issues in the management and economics of a software engineering project in the context of the software development lifecycle. Topics include: techniques for project planning (budgeting and scheduling), controlling (including quality assurance and configuration management), organizing, staffing, and directing a software project (leadership and motivation), and contemporary issues in management.

CSC 173. Data Visualization. 3 Units  
Prerequisite(s): CSC 130, CSC 134, and STAT 50 or ENGR 115.  
Term Typically Offered: Fall, Spring  
Design principles and concepts for visualizing data; current visualization systems and languages, exploratory data analysis, interaction techniques, high-dimensional data, network visualization, and text visualization.

CSC 174. Advanced Database Management Systems. 3 Units  
Prerequisite(s): CSC 131, CSC 134.  
Term Typically Offered: Fall only  
Enhanced Entity-Relationship (EER) modeling; relational database design based on EER; SQL views; integrity constraints and triggers; stored procedures and functions; database programming techniques; query processing and optimization; transactions concurrency and recovery techniques; relational decomposition and normalization algorithms; database schema and data security.
CSC 176. Database Architecture and Optimization. 3 Units  
Prerequisite(s): CSC 174.  
Term Typically Offered: Spring only

Advanced object-relational systems, advanced catalog systems, security mechanisms, distributed database processing, advanced schema design-partitioning, introduction to data warehousing and data mining, materialized views, Internet technologies, parallel query processing, system utilities, database tuning, DBA tools and techniques.

CSC 177. Data Analytics and Mining. 3 Units  
Prerequisite(s): CSC 134 and STAT 50 or ENGR 115.  
Term Typically Offered: Spring only

Theory and implementation of techniques for data analytics and mining with emphasis on big data. Topics include data cleaning, exploratory data analysis, data visualization, feature engineering, classification, clustering, association rule mining, predictive model evaluation, parameter tuning, natural language processing, and selected advanced data mining topics. Design and implementation of systems using contemporary data analysis and mining programming libraries for automatic discovery of patterns and knowledge.

CSC 179. Software Testing and Quality Assurance. 3 Units  
Prerequisite(s): CSC 131.  
Term Typically Offered: Spring only – even years

Testing, verification, validation, and control of real-time and non-real-time software systems in the context of a software development lifecycle. Topics include: unit, integration and system testing; verification and validation (V&V), quality assurance, metrics, and configuration management.

CSC 180. Intelligent Systems. 3 Units  
Prerequisite(s): MATH 26B or MATH 31; STAT 50 or ENGR 115; CSC 130 and CSC 135.  
Term Typically Offered: Spring only

Theory and implementation of a variety of techniques used to simulate intelligent behavior. Expert systems, fuzzy logic, neural networks, evolutionary computation, and two-player game-tree search will be covered in depth. Knowledge representation, pattern recognition, hybrid approaches, and handling uncertainty will also be discussed.

CSC 190. Senior Project - Part I. 2 Units  
Prerequisite(s): Senior status, WPJ score of 70+ or at least a C- in ENGL 109M/W, completed CSC 130, CSC 131, and four additional 3-unit upper-division CSC courses that fulfill the major requirements (excluding CSC 192-195, 198, and 199), not currently enrolled in CSC190.  
Term Typically Offered: Fall, Spring

The first of a two-course sequence in which student teams undertake an industry-grade a project to develop and deliver a software product. Teams apply software engineering principles in the preparation of a software proposal, a project management plan, a software product backlog, and a high-fidelity prototype. All technical work is published using guidelines modeled after IEEE documentation standards. Oral and written reports are required. Lecture one hour, laboratory three hours.

CSC 191. Senior Project - Part II. 2 Units  
Prerequisite(s): CSC 190, not currently enrolled in CSC191.  
Term Typically Offered: Fall, Spring

Continuation of the team group project begun in CSC 190. Teams apply software engineering principles to the design, implementation, testing, and deployment of their software product. All technical work is published using guidelines modeled after IEEE documentation standards. Oral and written reports are required. Senior project is completed with the successful delivery, installation and demonstration of the software along with all approved documentation. Lecture one hour, laboratory three hours.

CSC 192. Career Planning. 1 Unit  
Prerequisite(s): CSC 130 and three additional upper-division courses that fulfill major requirements with a C- grade or better (excluding CSC 190-195, CSC 198, and CSC 199).  
Term Typically Offered: Fall, Spring

Designed to help students learn more about the labor market and opportunities in the Computer Science field. Students will examine their interests, consider their goals, and learn how to conduct an effective proactive job search. Strategies for long term career growth will be identified.

Credit/No Credit

CSC 193A. Web Programming. 1 Unit  
Prerequisite(s): CSC 130 and not currently enrolled in CSC 193A

Term Typically Offered: Fall, Spring

Introduction to the World Wide Web; relationship between clients and servers, how web pages are created using several technologies: HyperText Markup Language (HTML), Cascading Style Sheets (CSS), JavaScript, Asynchronous JavaScript and XML (Ajax), server-side web services, integrate web applications with databases.

CSC 194. Computer Science Seminar. 1 Unit  
Prerequisite(s): Upper division or graduate status in CSC.  
Term Typically Offered: Spring only

Series of weekly seminars on Computer Science topics. These topics cover subjects not normally taught in the course of a school year and they range from the very theoretical in Computer Science through applications to presentations by industry on working conditions, real world environment and job opportunities.

Note: May be repeated for credit.

CSC 195. Fieldwork in Computer Science. 1 - 4 Units  
Prerequisite(s): Instructor permission.  
Term Typically Offered: Fall, Spring

Directed observations and work experience in computer science with firms in the industry or public agencies. Supervision is provided by the instructional staff and the cooperating agencies.

Note: Faculty approval required. May be repeated for credit.

Credit/No Credit
CSC 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the Career Center.
Note: Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CSC 195B. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the Career Center.
Note: Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CSC 196P. Cloud and Mobile Computing Pragmatics. 3 Units
Prerequisite(s): CSC 134, CSC 138, and CSC 139
Introduction to cloud computing. Cloud services. Deployment options. The installation, configuration, and deployment of a cloud infrastructure based upon industrial standards. Step-by-step cloud setup as well as the development of scripts for automated deployment. The installation, building, deployment, testing, and provisioning of a multi-tier cloud based mobile application as a cloud service.

CSC 196W. Web Programming. 1 Unit
Prerequisite(s): CSC 130
Term Typically Offered: Fall, Spring

Introduction to the World Wide Web: relationship between clients and servers, how web pages are created using several technologies: HyperText Markup Language (HTML), Cascading Style Sheets (CSS), JavaScript, Asynchronous JavaScript and XML (Ajax), server-side web services, integrate web applications with databases.

Note: Offered Online

CSC 198. Co-Curricular Activities in Computer Science. 1 - 3 Units
Term Typically Offered: Fall, Spring

Students will serve in leadership roles in computer science activities, provide tutoring or technical assistance in labs, assist instructors in grading coursework, or assist in other activities related to the subject matter and concerns of the department.

Credit/No Credit

CSC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading in specified topics in computer science.
Note: Open only to students who appear competent to carry on individual work; approval of faculty supervisor and advisor required. May be repeated for credit.

Credit/No Credit

CSC 200. Professional Writing in Computer Science. 3 Units
Prerequisite(s): Graduate standing in Computer Science or Software Engineering
Term Typically Offered: Fall, Spring

Immersion in the discourse of Computer Science: genres, literacies, stylistic conventions. Writing process, academic writing in various academic genres, revising, and editing. Tools for technical writing. Ethical issues in connection with scientific writing.

CSC 201. Programming Language Principles. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Notations for the specification of programming language syntax and semantics; attribute, translational, operational, axiomatic, algebraic, denotational, and action semantics. Applications of programming language syntax and programming language semantics. Use of meta languages to generate executable language definitions for language implementation, program transformation, program property analysis, and rapid software prototyping. Principles of logic, functional, and object-oriented programming languages.

CSC 204. Data Models for Database Management Systems. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Database management system (DBMS) architecture; database file organizations and access methods; the relational model and relational algebra; SQL query language; introduction to query optimization; concurrent transaction processing and backup and recovery; applications using embedded SQL, object types, and stored procedures; database analysis and design notations: EER, UML, and XML; web database environments; database security and administration throughout course.
Note: Not intended for students who have completed CSC 174.

CSC 205. Computer Systems Structure. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering or Computer Engineering.
Term Typically Offered: Fall, Spring

Overview of computer systems organization and design. Concepts of instruction set architecture, interactions of hardware-software interface, principles of performance analysis, processor design, instruction level parallelism, survey of contemporary architectures, hierarchical memory design and analysis, interfacing I/O devices, parallel processing and multiprocessing, and introduction to EDA tools and methodologies for computer systems design and verification.

CSC 206. Algorithms And Paradigms. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Design and analysis of algorithms. Classical design paradigms including greedy, divide-and-conquer, dynamic programming, and backtracking algorithmic methods. Alternative paradigms of computing including parallel and numerical approaches. Theoretical limits of computation. Selected additional topics such as genetic, approximation, and probabilistic algorithms.
CSC 209. Research Methodology. 1 Unit
Prerequisite(s): Enrolled in at least 3 units of 200-level courses in Computer Science.
Term Typically Offered: Fall, Spring

Research methodology, problem formulation, and problem solving. Orientation to the requirements for Master’s Thesis or Project. Presentations on various research topics.
Credit/No Credit

CSC 212. Bioinformatics: Data Integration and Algorithms. 3 Units
Prerequisite(s): CSC 130, STAT 50, and graduate status; BIO 10 recommended.
Term Typically Offered: Fall, Spring

The application of information technology and computer science to biological problems, in particular to biomedical science issues involving genetic sequences. Algorithms and their applications to DNA sequencing and protein database search; tools and techniques for data integration to transform genetic sequencing data into comprehensible information to study biological processes.

CSC 214. Knowledge-Based Systems. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Historical perspective of knowledge-based systems and their relationship to artificial intelligence. Concepts of knowledge representation and automated reasoning. Survey of expert systems in a variety of applications in engineering and other fields. Implementation of expert systems and expert system shells.

CSC 215. Artificial Intelligence. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering or Computer Engineering.
Term Typically Offered: Fall, Spring

Nature of intelligence and possibility of its realization on digital computers via algorithmic and heuristic programming methods. Informed and uninformed search, adversarial search, stochastic search, machine learning, regular and deep neural networks, and knowledge representation and inference over uncertainty. Computer vision topics. Natural language processing. Design and implementation of systems using contemporary programming libraries to solve a variety of artificial intelligence problems.

CSC 219. Machine Learning. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering or Computer Engineering.
Term Typically Offered: Fall, Spring

Introduction to major paradigms and methods of machine learning. Inductive learning, explanation-based learning, classifier systems and genetic algorithms, analogical reasoning, case-based learning, connectionist learning, data driven approaches to empirical discovery, and basis of learning theory. Focus is on representative systems that have been built.

CSC 230. Software System Engineering. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering; or Computer Engineering and CSC 131.
Term Typically Offered: Fall, Spring

Integration of managerial and technical activities in system engineering that control the cost, schedule, and technical achievement of the developing software system. Application of the principles, activities, tasks and procedures of system engineering and software engineering to the development of a software system.

CSC 231. Software Engineering Metrics. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Software quality and quantity metrics in software engineering. Measurement theory and metrics. Metrics include management metrics, indirect and direct metrics and predictive metrics. Uses of metrics include software cost and schedule estimates, model calibration, and software productivity measurements. Metrics techniques include the Goal-Question-Metric approach, COCOMO, and function point analysis.

CSC 232. Software Requirements Analysis and Design. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Software engineering requirements including elicitation, analysis, specification, verification and management. Emphasizes IEEE software engineering requirements and standards and the concept of operations (ConOps) document. Techniques include structured analysis, use cases and object-oriented analysis.

CSC 233. Advanced Software Engineering Project Management. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Advanced methods and procedures for managing a software development project. Includes project planning, scheduling, and cost estimation, project organizational types, staffing and training considerations, leading and motivating computer personnel, and methods for measuring and controlling a project. Emphasizes IEEE software engineering management standards and keys to project success.

CSC 234. Software Verification and Validation. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering; or Computer Engineering and CSC 131.
Term Typically Offered: Fall, Spring

Verification and validation (V & V) techniques to identify and resolve software problems and high-risk issues early in the software lifecycle. Application of V & V to all phases of the lifecycle process. Includes planning and reporting on the V & V effort. Topics also include software quality assurance and software testing.
CSC 235. Software Architecture. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring


CSC 236. Formal Methods in Secure Software Engineering. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Basic concepts of formal methods in secure software engineering; formal methods based software development models and methodologies; formal methods for software system specification, modeling, analysis, verification, information assurance and security; systems and tools for the application of formal methods in secure software engineering; advances of formal methods in secure software engineering.

CSC 237. Microprocessor Systems Architecture. 3 Units
Prerequisite(s): CSC 205.
Term Typically Offered: Fall, Spring

Microprocessor/microcomputer architecture and hardware/software interfacing design. RISC v. CISC architecture in-depth, case studies of several popular commercial advanced 32-bit microprocessors. Microcomputer firmware architecture is discussed and illustrated with detailed examples. Term project in which students specify, design and build the hardware and firmware of a computer system.

CSC 238. Human-Computer Interface Design. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Issues involved in design of interaction between people and computers. Insight and experience in key issues of HCI design. Emphasis on identifying issues and tradeoffs in interaction design. Development and evaluation of alternative solutions to design problems.

CSC 239. Advanced Operating Systems Principles and Design. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering.
Term Typically Offered: Fall, Spring

Advanced concepts of concurrent processes, concurrent programming and operating systems. Virtual memory management systems, deadlock, file systems, operating system performance measurement and evaluation, device driver development.

CSC 242. Computer-Aided Systems Design and Verification. 3 Units
Prerequisite(s): CSC 205 or CSC/EEE 273.
Term Typically Offered: Fall, Spring

Design and verification methodology using hardware description and verification languages (HDVLs). Advances in IC chip design; introduction to HDVLs such as SystemVerilog; HDVL language basics including data types, arrays, structures, unions, procedural blocks, tasks, functions, and interface concepts; design hierarchy; verification planning and productivity; verification infrastructure; guidelines for efficient verification of large designs; assertion-based verification; comprehensive computer-related design projects.

CSC 244. Database System Design. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

SQL views, integrity constraints and triggers, stored procedures and functions. Advanced topics in database system design: an algebra for queries, query processing algorithms, query compiler, query optimization, transaction management, recovery, concurrency control. Special topics on data management.

CSC 245. Performance Modeling and Evaluation. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Performance and cost measures; software and hardware performance monitors; data reduction and evaluation; analytic and simulation models of hardware and program behavior; performance-cost trade-offs and resource allocation.

CSC 250. Computer Security. 3 Units
Prerequisite(s): Fully classified graduate standing in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

Principles and technologies behind computer security. Introduction to encryption and decryption; security mechanisms in computer programs, operating systems, databases, and networks; administration of computer security, and legal and ethical issues.

CSC 251. Principles of Compiler Design. 3 Units
Prerequisite(s): CSC 151 or CSC 201.
Term Typically Offered: Fall, Spring


CSC 252. Cryptography Theory and Practice. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

CSC 253. Computer Forensics. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

Structured security incident investigations internal and external; emphasis on analysis of electronic evidence and proper audit; utilization of scientific aids in obtaining information from computing devices; legal electronic evidence.

CSC 254. Network Security. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

In-depth study of network security problems and discussion of potential solutions. Topics include: network vulnerabilities and attacks, secure communication, Internet security protocols and tools to defend against network attacks, network intrusion detection, and wireless network security. Survey and demonstration of software tools used for network security.

CSC 255. Computer Networks. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering, or a Computer Engineering.
Term Typically Offered: Fall, Spring

Computer networking fundamentals with emphasis on higher level protocols and functions. Network design considerations, software design and layering concepts, interface design, routing and congestion control algorithms, internetworking, transport protocol design, and end-to-end communication, session and application protocols. Specific examples of commercial and international standards.

CSC 258. Distributed Systems. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering.
Term Typically Offered: Fall, Spring

Distributed system architectures, distributed object model, component-based design, time and global states, coordination and agreement, distributed transactions and concurrency control, replication, security, distributed multimedia systems, message passing and distributed shared memory, Web services and Service-Oriented Architecture (SOA), Cloud and Ubiquitous computing. Emphasis on scalability, manageability, security, and dependability of distributed systems.

CSC 273. Hierarchical Digital Design Methodology. 3 Units
Prerequisite(s): CSC 205, CPE 64, or equivalent.
Term Typically Offered: Fall, Spring

Advanced logic modeling, simulation, and synthesis techniques. Topics include modeling, simulation, and synthesis techniques, using Hardware Description Language (HDLs), Register Transfer Level (RTL) representation, high-level functional partitioning, functional verification and testing, computer-aided logic synthesis, logical verification and testing, timing and delay analysis, automated place and route process, and design with Application Specific Integrated Circuits (ASICs) and programmable logic.
Cross Listed: EEE 273; only one may be counted for credit.

CSC 275. Advanced Data Communication Systems. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering.
Term Typically Offered: Fall, Spring

Fundamental concepts, principles and issues of data communication systems. The ISO/OSI reference model is used as a vehicle for discussion and emphasizes the lower layer of the model. Specific topics include: motivation and objectives, layered architectures, physical layer principles and protocols, data link and medium access control principles and protocols, circuit, packet and cell switching, local area network design principles and performance comparisons, high speed networking, introduction to wide area network architectures. Typical examples and standards are cited for point-to-point, satellite, packet radio and local area networks.

CSC 280. Advanced Computer Architecture. 3 Units
Prerequisite(s): CSC 205 and fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Introduction to parallel architecture covering computer classification schemes, finite and coarse grain parallelism, processor interconnections, and performance issues of multiprocessor systems. Includes parallel and pipelined instruction execution, structure of multiprocessor systems, memory hierarchy and coherency in shared memory systems, programming issues of multiprocessor systems, arithmetic pipeline design, and design for testability.
Cross Listed: EEE 280; only one may be counted for credit.

CSC 288. Special Topics in Computer Science - Software Engineering. 3 Units
Term Typically Offered: Fall, Spring

Contemporary topics in computer science will be offered as needed. Topics offered:

CSC 295. Fieldwork. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observations and work experience in computer science with firms in the industry or public agencies. Supervision is provided by the instructional staff and the cooperating agencies.
Note: Faculty approval required. May be repeated for credit.
Credit/No Credit

CSC 296R. Computer Vision. 3 Units
Prerequisite(s): CSC 206, and Math 35 or Math 100; not currently enrolled in CSC 296R
Term Typically Offered: Fall, Spring

Topics in computer vision including fundamentals of image formation, image transformations and rotation, Fourier transform and frequencies, lighting and optics, filtering, edge and line detection and Hough transform, feature detection and matching, a brief introduction to machine learning and classifiers, recognition, large-scale retrieval, object detection, and face recognition. Mathematical fundamentals and methods, design and implementation of various computer vision applications.
CSC 296T. Fundamentals in Cybersecurity for Teachers. 3 Units

Prerequisite(s): Education, teaching, and/or professional experience qualified for admission into the National Cybersecurity Teaching Academy program at Sacramento State.

Term Typically Offered: Fall, Spring, Summer

Introduction to network and computer security with a focus on how intruders gain access to systems, how they escalate privileges, and what steps can be taken to secure a system against such attacks. Topics include: computer networking basics, operating system basics, vulnerability and attacks, intrusion penetration, cyber defenses, network hardening, system hardening, security administration. This course is designed for K-12 teachers, and does not meet regular degree requirements in Computer Science, Software Engineering, or Computer Engineering.

CSC 296U. Introduction to Digital Forensics for Teachers. 3 Units

Prerequisite(s): Education, teaching, and/or professional experience qualified for admission into the National Cybersecurity Teaching Academy program at Sacramento State.

Term Typically Offered: Fall, Spring, Summer

Introduction to computer forensics, cybercrime scene analysis and electronic discovery. Digital forensics related legal issues, procedures and standards. Technical methodologies for setting up forensic workstations; data acquisition; file systems and storage analysis for Linux, Mac and Windows systems; data hiding techniques; graphics file recovery; network forensics; and mobile forensics. Hands-on activities for using and understanding digital forensic tools. This course is designed for K-12 teachers, and does not meet regular degree requirements in Computer Science, Software Engineering, or Computer Engineering.

CSC 296V. Cybersecurity Teaching Methods for Teachers. 3 Units

Prerequisite(s): Education, teaching, and/or professional experience qualified for admission into the National Cybersecurity Teaching Academy program at Sacramento State, and CSC 296T.

Term Typically Offered: Fall, Spring, Summer

Introduction to existing generally accepted guidelines and frameworks (such as HSCGG, CSEC, CAE Knowledge Units, NCWF) in the discipline of cybersecurity. Methods for teaching cybersecurity to transform cybersecurity subject matter, with pedagogical content knowledge, into student learning. Topics include: culturally-relevant methods, scaffolding knowledge, differentiation, assessment, and cybersecurity instructional technologies (ranges, CTFs, competitions, and unplugged activities). This course is designed for K-12 teachers, and does not meet regular degree requirements in Computer Science, Software Engineering, or Computer Engineering.

CSC 296W. Cybersecurity Practicum for Teachers. 3 Units

Prerequisite(s): Education, teaching, and/or professional experience qualified for admission into the National Cybersecurity Teaching Academy program at Sacramento State, CSC 296T and CSC 296U.

Term Typically Offered: Fall, Spring, Summer

Exposure to cybersecurity operations through service projects, research, or industry experience. This course is designed for students to work with industry or the community in a cybersecurity operations environment to apply knowledge in the development, implementation, testing and documentation of security controls. This course is designed for K-12 teachers, and does not meet regular degree requirements in Computer Science, Software Engineering, or Computer Engineering.

CSC 299. Special Problems. 1 - 3 Units

Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem of his own choice may do so if the proposed subject is acceptable to the member of the staff with whom he/she works and to his/her advisor.

Note: May be repeated for credit.

Credit/No Credit

CSC 500. Master's Thesis. 1 - 5 Units

Prerequisite(s): CSC 209; advanced to candidacy.

Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.

Note: May be repeated for credit.

Credit/No Credit

CSC 500C. Master's Thesis Continuous Enrollment. 1 Unit

Prerequisite(s): CSC 500

Term Typically Offered: Fall, Spring

Continuation of a thesis approved for the Master's degree.

Note: May be repeated for credit

Credit/No Credit

CSC 502. Master's Project. 1 - 2 Units

Prerequisite(s): CSC 209; advanced to candidacy.

Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.

Credit/No Credit

CSC 502C. Master's Project Continuous Enrollment. 1 Unit

Prerequisite(s): CSC 502

Term Typically Offered: Fall, Spring

Continuation of a project approved for the Master's degree.

Note: May be repeated for credit

Credit/No Credit

Construction Management (CM)

CM 9. Construction Surveying and Layout. 3 Units

Prerequisite(s): CM 10, CM 20, CM 21 and either Math 26A or MATH 30; CM 21 and Math 26A or MATH 30 may be taken concurrently.

Corequisite(s): CM 21.

Term Typically Offered: Fall, Spring

Geomatics and the principles of surveying measurements for distance, direction, and elevation. Special emphasis on the application of surveying skills relevant to the field of construction, including building, bridge, and sitework layout techniques and procedures, establishment of reference line and grade, topographic mapping, and earthwork computations. Lecture two hours. Laboratory 3 hours.

CM 10. The Construction Industry. 1 Unit

Term Typically Offered: Fall, Spring

Introduction to the Construction Management program and the many facets of the construction industry and to the various career opportunities. The unique products of construction, the organizations involved, and the people that make it happen. Guest speakers. Lecture one hour.

Credit/No Credit
CM 15. Fundamentals of Construction Management. 3 Units  
Prerequisite(s): CM 10. CM 10 may be taken concurrently.  
Term Typically Offered: Fall, Spring  
Introduction to the Construction Management program and industry.  
Critical reading, thinking and writing for the construction profession.  

CM 20. Construction Materials and Processes. 3 Units  
Prerequisite(s): CM 10, ENGL 1A; CM 10 may be taken concurrently.  
Term Typically Offered: Spring only  
Introduction to construction materials; to their properties in-place in completed projects, and to their characteristics that affect construction processes. The organizations, methods, equipment and safety considerations that are common to projects of all types and to all segments of the industry. Field trips. Lecture two hours; laboratory three hours.  
Field trip(s) may be required.  

CM 21. Construction Graphics. 3 Units  
Prerequisite(s): ENGL 1A and CM 10; CM 10 may be taken concurrently.  
Term Typically Offered: Fall only  
Instruction and exercises in graphic techniques and procedures applicable to construction. Analysis of drawings in the civil, architectural, structural, mechanical, and electrical fields and how drawings affect construction planning. Freehand sketching. Isometric and oblique projections. Material quantity surveying. Lecture two hours; laboratory three hours.  

CM 22. Construction Documents. 3 Units  
Prerequisite(s): ENGL 1A, CM 20, and CM 21; CM 20 may be taken concurrently.  
Term Typically Offered: Spring only  
Analyzes construction contract documents. Technical and legal interpretations and implications to managers of the construction process. Quantity surveying. Lecture two hours; laboratory three hours.  

CM 30. Engineering Mechanics--Statics. 3 Units  
Prerequisite(s): MATH 26A or MATH 30; and PHYS 5A or PHYS 11A.  
Term Typically Offered: Spring only  
Introduction to the solution of engineering design problems. Concepts of units, vectors, equilibrium, forces, force systems, shear and moment diagrams. Lecture three hours.  

CM 40. Properties of Construction Materials. 3 Units  
Prerequisite(s): PHYS 5A.  
Term Typically Offered: Fall only  
Study of the engineering performance characteristics of materials. Covers testing concepts and procedures. Includes basic properties of metals, aggregates, cements, concrete, timber, asphalt, masonry and plastics with emphasis on construction applications. Lecture two hours; laboratory three hours.  

CM 110. Legal Aspects of Construction. 3 Units  
Prerequisite(s): Senior class standing, MGMT 101, CM 22.  
Corequisite(s): CM 126  
Term Typically Offered: Fall only  
Application of advanced legal concepts to the construction process. Analyzes problems relating to contract formation, administration, and interpretation. Includes bidding and contract enforcement; litigation of disputes vs. arbitration; liability for negligence, warranty, and strict liability; safety; license law requirements; mechanics' liens and stop notices; bond rights and obligations. Lecture three hours.  

CM 120. Construction Operations and Methods Analysis. 3 Units  
Prerequisite(s): CM 20.  
Corequisite(s): CM 121.  
Term Typically Offered: Fall only  
Introduction to the analysis and management of construction projects in terms of the work that must be performed in the construction process. Analyzes operations and methods using concepts and techniques, including video, that are applicable to all types of projects in all segments of the industry, variables affecting productivity. Safety as an integral part of project and operations management. Field trips. Lecture two hours; laboratory three hours.  
Field trip(s) may be required.  

CM 121. Fundamentals of Construction Estimating. 3 Units  
Prerequisite(s): CM 20.  
Corequisite(s): CM 120.  
Term Typically Offered: Fall only  
Study of the basic approaches to estimating the cost of construction projects from a managerial viewpoint. Types of estimates and methods; elements of cost, variables and costing concepts; analysis procedures for detailed estimates. Lecture two hours; laboratory three hours.  

CM 124. Engineering Construction. 3 Units  
Prerequisite(s): CM 125, CM 135.  
Term Typically Offered: Fall only  
Study of engineering construction projects with emphasis on equipment-paced operations including safety aspects. Engineering fundamentals and other factors that affect equipment selection and production. Amplification of recording and analysis techniques. Unit price contracts. Field trips. Lecture two hours; laboratory three hours.  
Field trip(s) may be required.  

CM 125. Advanced Estimating and Bidding. 3 Units  
Prerequisite(s): CM 120, CM 121.  
Term Typically Offered: Spring only  
Study of the concepts and practices involved in the total estimating and bidding process in construction, from initial project selection to submission of final bids. Covers considerations in project selection, sub-bid analysis, contingency and risk analysis, pricing concepts, bidding models, and an introduction to computer applications. A complete project estimate and bid is prepared by each student. Lecture two hours; laboratory three hours.
CM 126. Construction Project Management. 3 Units
Prerequisite(s): CM 125, CM 127.
Corequisite(s): CM 110.
Term Typically Offered: Fall only

Introduction to the study of Project Management as it is used on the larger construction project. Students study how construction contractors manage cost, time, scope, and quality. The theory of Project Management is developed and compared to management of the on-going business enterprise. Matrix and functional organizations are examined within the context of the industrial, commercial and heavy contract construction industries using the principles of the management process. Lecture three hours.

CM 127. Planning, Scheduling and Control. 3 Units
Prerequisite(s): CM 120.
Term Typically Offered: Spring only

Study of the concepts used in planning and controlling construction projects. Arrow, PERT, precedence, and linear scheduling methods; resource leveling; time-cost analysis; bar charts; and time-scaled diagrams. Manual procedures followed by computer applications. Lecture three hours.

CM 129. Senior Project. 3 Units
Prerequisite(s): CM 110, CM 111, CM 124, CM 126, HROB 101.
Term Typically Offered: Spring only

Consideration of technical, legal, business and human factors (including safety) in applying the functional approach to the management of construction organizations, projects, and operations. The individual construction professional in a competitive industry: personal and professional development, ethics, stress, physical and mental health. The industry and the construction professional in relation to the social and physical environments. Lecture three hours.

CM 130. Structures I -- Design Principles and Structural Steel Design. 3 Units
Prerequisite(s): CM 30, CM 40; CM 40 may be taken concurrently.
Term Typically Offered: Fall only

Introduction to structural design. Consideration of load conditions, stresses, strain, beam deflection and column action. Basic design of structural steel members with emphasis on systems used in practical situations. Beams, trusses, and columns are designed using the Uniform Building Code as a reference and the results are shown on detailed drawings and sketches. The theory of Project Management is developed and compared to management of the on-going business enterprise. Matrix and functional organizations are examined within the context of the industrial, commercial and heavy contract construction industries using the principles of the management process. Lecture three hours.

CM 135. Soils and Foundations. 3 Units
Prerequisite(s): CM 130.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall only

Quantitative analysis of the properties and behaviors of soils used as materials in construction. Index and physical properties of soils including compaction; permeability, compressibility, and shear strength. Methods of laboratory and field tests. Principles of foundation design, pavements, embankments and temporary soil support systems for trenches and cuts. Lecture two hours; laboratory three hours.

Note: This course requires safety training this; course requires personal protective equipment (PPE).

CM 136. Principles of Mechanical and Electrical Engineering. 3 Units
Prerequisite(s): PHYS 5B, CM 30.
Term Typically Offered: Fall only

Basic principles of thermodynamics with application to heating, ventilating and air conditioning systems. Introduction to electrical circuits and circuit analysis with construction applications. Lecture three hours.

CM 140. Structures II -- Timber and Formwork Design. 3 Units
Prerequisite(s): CM 130.
Term Typically Offered: Spring only

Basic design of structural timber members with emphasis on systems used in practical situations. Beams, trusses, and columns are designed using the Uniform Building Code as a reference and the results are shown on detailed drawings and sketches. Application of engineering principles to satisfy construction requirements that are not designed or shown in typical construction documents. Includes analysis and design of concrete form systems, shoring, and falsework, and construction dewatering. Lecture three hours.

CM 150. Structures III -- Reinforced Concrete and Reinforced Masonry. 3 Units
Prerequisite(s): CM 130.
Term Typically Offered: Fall only

Basic design concepts of reinforced concrete and reinforced masonry design. Topics and examples include design of beams, slabs, columns and walls. Students are required to demonstrate drafting ability. Assignments include design and drawings of various structural systems. Lecture three hours.

CM 156D. Virtual Design and Construction. 3 Units
Prerequisite(s): CM 125 & CM127
Term Typically Offered: Fall, Spring

This course consists of instructions and exercises in virtual design applications in construction. Students will learn to develop 2D CAD drawings, 3D building information models (BIM), 4D BIM models to link the 3D model with construction schedules, and 5D models to link the 4D model with construction cost. Students will also learn to visualize an augmented reality BIM model for construction using 3D goggles (Microsoft HoloLens 2), and to utilize 3D laser scanning in capturing the details of an existing.

CM 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Open only to students competent to carry on individual work. Admission to this course requires approval of an instructor and the program coordinator.

Credit/No Credit

CM 296A. Sustainable Design and Construction. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall only – even years

Provides a foundation in sustainable building concepts and design principles while giving students the opportunity to practice applying these principles to actual projects. Prepare the new generation of engineers to address complex societal problems and develop the vocabulary and skills to become proactive contributors to sustainable design and construction project teams. This course will be offered experimentally.
Criminal Justice (CRJ)

CRJ 1. Introduction to Criminal Justice and Society.  3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Reviews the problem of crime and the societal response to criminals. Institutions discussed are those intended to discover the crime and the criminal and those designed to deal with the criminal, the victim, and society, once the criminal has been labeled. Finally, the bureaucracy of crime and its measurement as a social phenomenon are discussed.

CRJ 2. Law of Crimes.  3 Units
Term Typically Offered: Fall, Spring

Introduction to the case method of studying criminal law. Understanding and correlating the common law crimes and statutes. Study and emphasis on the classification and nature of crimes, the requisite elements of the major common law felonies and criminal responsibility of various persons involved in crime.

CRJ 4. General Investigative Techniques.  3 Units
Term Typically Offered: Fall, Spring

Techniques involved in the investigation of crimes; interview of victims and witnesses; questioning of suspects; organization and procedure in the investigation of crimes; crime scene searches; surveillance; use of scientific aids; and sources of information.

CRJ 5. The Community and the Justice System.  3 Units
Term Typically Offered: Fall, Spring

Examines complex, dynamic relationships between communities and the justice system in addressing crime and conflict with emphasis on the challenges and prospects of administering justice within a diverse, multicultural population and the roles played by race, ethnicity, gender, religion, sexual orientation, age, social class, culture, and justice professionals in shaping relationships within the justice system. Special topics include crime prevention, restorative justice, and conflict resolution and pure justice.

CRJ 21. First Year Seminar: Becoming an Educated Person.  3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Also provide students with an opportunity to interact with fellow students and the seminar leader and to build a community of academic and personal support.

CRJ 101. Introduction to Criminal Justice Research Methods.  3 Units
Prerequisite(s): Restricted to Criminal Justice majors
Term Typically Offered: Fall, Spring

Introduction to research methodologies used in the social sciences, with a special emphasis on those methods most often used in the study of crime and criminal behavior, police/court systems, and correctional institutions, policies, and programs. Students will acquire the knowledge and skills necessary to understand, critically analyze and assess descriptive and quantitative research studies. Topics include the roles of theory and ethics in research, hypothesis testing, and research design.

CRJ 102. Crime And Punishment.  3 Units
Prerequisite(s): Criminal Justice major
Term Typically Offered: Fall, Spring

This course provides an overview of the causes, consequences and responses to crime in society, with special emphasis on the use of theory and research to guide criminal justice policy and practice. The course surveys major theories of crime causation, examines consequences of crime on individuals and societies, and explores various perspectives on the appropriate role of criminal sanctions and offender treatment in modern day systems of justice.

CRJ 103. Cases and Issues in Corrections.  3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

This course provides an opportunity to interact with fellow students and the seminar leader and to improve their basic learning skills. Also provide students with an opportunity to interact with fellow students and the seminar leader and to improve their basic learning skills. Also provide students with an opportunity to interact with fellow students and the seminar leader and to improve their basic learning skills.

CRJ 105. Delinquency, Prevention and Control.  3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

This course provides an overview of the causes, consequences and responses to crime in society, with special emphasis on the use of theory and research to guide criminal justice policy and practice. The course surveys major theories of crime causation, examines consequences of crime on individuals and societies, and explores various perspectives on the appropriate role of criminal sanctions and offender treatment in modern day systems of justice.

CRJ 108. Domestic Crime and Violence.  3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

This course provides an overview of the causes, consequences and responses to crime in society, with special emphasis on the use of theory and research to guide criminal justice policy and practice. The course surveys major theories of crime causation, examines consequences of crime on individuals and societies, and explores various perspectives on the appropriate role of criminal sanctions and offender treatment in modern day systems of justice.

CRJ 109. Media, Crime, and Criminal Justice.  3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

This course provides an overview of the causes, consequences and responses to crime in society, with special emphasis on the use of theory and research to guide criminal justice policy and practice. The course surveys major theories of crime causation, examines consequences of crime on individuals and societies, and explores various perspectives on the appropriate role of criminal sanctions and offender treatment in modern day systems of justice.

CRJ 111. Social Research Methods.  3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

This course provides an overview of the causes, consequences and responses to crime in society, with special emphasis on the use of theory and research to guide criminal justice policy and practice. The course surveys major theories of crime causation, examines consequences of crime on individuals and societies, and explores various perspectives on the appropriate role of criminal sanctions and offender treatment in modern day systems of justice.

CRJ 112. The Community and the Justice System.  3 Units
Term Typically Offered: Fall, Spring

This course provides an overview of the causes, consequences and responses to crime in society, with special emphasis on the use of theory and research to guide criminal justice policy and practice. The course surveys major theories of crime causation, examines consequences of crime on individuals and societies, and explores various perspectives on the appropriate role of criminal sanctions and offender treatment in modern day systems of justice.

CRJ 113. Analysis of Career Criminals.  3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

This course provides an overview of the causes, consequences and responses to crime in society, with special emphasis on the use of theory and research to guide criminal justice policy and practice. The course surveys major theories of crime causation, examines consequences of crime on individuals and societies, and explores various perspectives on the appropriate role of criminal sanctions and offender treatment in modern day systems of justice.

CRJ 114. Media, Crime, and Criminal Justice.  3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

This course provides an overview of the causes, consequences and responses to crime in society, with special emphasis on the use of theory and research to guide criminal justice policy and practice. The course surveys major theories of crime causation, examines consequences of crime on individuals and societies, and explores various perspectives on the appropriate role of criminal sanctions and offender treatment in modern day systems of justice.
CRJ 111. Women and the Criminal Justice System. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Survey of the roles of women as offenders, victims and employees in the criminal justice system. Examines statistics, research and the literature as it relates to female crime. Evaluates current patterns and practices of law enforcement, criminal courts and corrections relative to women as offenders, victims, and employees.

CRJ 112. Gangs and Threat Groups in America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of criminal organizations in America. The problems posed by "anti-social groups," their structure and their history in contemporary American society. The spectrum of social sciences is employed in an examination of "illegal groups" and such issues as aggression and group dynamics. Styles such as street gangs, prison gangs and traditional organized crime are defined and studied.

CRJ 114. Sexual Offenses and Offenders. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Exploration of relevant factors and dimensions of sexual offenses and offenders related to the Criminal Justice system, its cliental and practitioners.

CRJ 115. Violence and Terrorism. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Systemically examines political violence, responses by government institutions to that violence and implications of both for the administration of justice. Content is structured along a continuum, ranging from small scale violence to mass violence - assassinations, terrorism by sub-national and transnational organizations, state terror and genocide. In recent years political violence has progressively drawn the American governmental institutions, particularly justice agencies, into the global picture of violence committed by both domestic and international terrorists.

CRJ 116. Restorative Justice and Conflict Resolution. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines concepts, principles, techniques of conflict resolution and restorative justice in contemporary US legal system, global peacebuilding, across cultures, and comparative justice practices. The centerpiece is a classroom simulation that introduces students to theoretic analysis and practical knowledge on resolution of conflicts and crime. Addresses nonviolent responses to inter/intra state and community conflicts. Topics include negotiation, mediation, victim offender reconciliation, alternative dispute resolution (ADR), circle sentencing, transitional justice, peace treaty, transformative justice, intergroup dialogues, etc.

CRJ 117. American Criminal Justice and Minority Groups. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring

Course examines the origins of racial/ethnic/gender/sex discrimination and disparities in the US justice system. Additionally, course provides a critical examination of the processes and outcomes of the justice system by reviewing the major theories of crime and number of minorities reported in crime data. Using discussions about various criminal justice policies and their impact on minority groups, the course assesses the changing dynamic of race relations and diversity in society and their influences on justice administration.

CRJ 118. Drug Abuse and Criminal Behavior. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Sociogenic review of the case histories and life styles of selected juvenile and adult offenders with a history of drug abuse. An inquiry into the drug scene, "street" drugs, an examination of people who have abused drugs and have been guilty of delinquent or criminal acts for the purpose of determining the known and identified relationships between drug abuse and crime, and probing the many unknown relationships. A sustained and disciplined examination of the main issues and problems by the use of case studies, discussion groups, and student involvement.

CRJ 121. The Structure and Function of the American Courts. 3 Units
Prerequisite(s): declared majors or minors or chair permission.
Term Typically Offered: Fall, Spring

Overview of the Federal and State court structures including jurisdiction, venue, roles of court participants, due process and post arrest procedures employed in adjudication, trial process, appellate review. Constitutional issues such as discretion, indigent rights, right to counsel, discovery, pleas, bail and preventive detention, competency, evidence suppression, double jeopardy, and speedy trial will also be addressed.

CRJ 123. Law of Arrest, Search and Seizure. 3 Units
Prerequisite(s): Restricted to declared majors or minors or department chair permission.
Term Typically Offered: Fall, Spring

Current and recent developments relating to arrest, searches, and seizures; study of constitutional rights predominately associated with the Fourth, Fifth, Sixth and Fourteenth Amendments as related to criminal justice and its administration – warrants, warrantless seizures, exclusionary rule, confession, eye-witness identification, electronic surveillance, entrapment, and state variance with federal rules. Case study method law course.

CRJ 125. Law of Responsibility. 3 Units
Prerequisite(s): Restricted to declared majors or chair permission.
Term Typically Offered: Spring only

Substantive criminal law of responsibility and culpability. Topics include legal cause, mens rea, negligence, intent and its equivalents, motive, immaturity, mental incapacitates, mistake, and affirmative defenses including authority and privilege as found in American statute and case law. A case method law course.
CRJ 126. Law of Evidence. 3 Units
Prerequisite(s): CRJ 121 and CRJ 123; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Law of evidence as codified and its complimentary interpretations by the courts. Topics include the admission and exclusion of evidence, relevance, the hearsay rule and its exceptions, the use of writings and demonstrative evidence, judicial notice, order of proof and presumptions, and issues relating to witness competency and privileges. Constitutional exclusions and their impacts are not covered.

CRJ 127. Juvenile Law. 3 Units
Prerequisite(s): CRJ 102 and CRJ 121; restricted to CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Overview of legal concepts and principles affecting the adjudication of delinquent children in juvenile and adult court systems, develops the ability to read and analyze difficult legal issues relating to juvenile law, and provides the information required to evaluate the effectiveness of the juvenile court system in the context of its stated rehabilitative goals and the potential impact of a shift in focus to a more retribution-oriented structure.

CRJ 128. Administrative Law for Public Safety Personnel. 3 Units
Prerequisite(s): CRJ 121 and CRJ 123; restricted to CRJ majors or chair permission.
Term Typically Offered: Spring only

Administrative law is the study of the adjudicatory and law making processes that take place within administrative agencies of the executive branches of government. Further, it is a study of the legal relationship between those agencies and the legislature, the courts, and private parties. Particular attention will be paid to the Federal Administrative Procedures Act, and the California Administrative Procedure Act.

CRJ 130. Fundamentals of Corrections. 3 Units
Prerequisite(s): Restricted to declared CRJ majors or minors or department chair permission.
Term Typically Offered: Fall, Spring

Overview and critical analysis of contemporary correctional theory and practice. Comparison of mainline American corrections with historical, cross-cultural, philosophical and non-traditional views of corrections. Controversial issues in contemporary corrections, including prisoner rights, victimization, the death penalty, unions, institutional corrections, community corrections, future of corrections, correctional careers, and administration and staffing of correctional programs.

CRJ 131. Correctional Institutions. 3 Units
Prerequisite(s): CRJ 101, CRJ 102 and CRJ 130; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

Role and function of the correctional institution in the administration of criminal justice. A review of institutional procedures: reception, classification, program assignment, mass custody, treatment programs, and release, including parole and discharge. The inmate social system and its relationship to the official world that contains it. The following topics will receive special attention: the determinate sentence; the confinement of repetitively violent offenders; the death penalty and its impact on prison management, inmate social services; prison reform; and the stresses experienced by institutional personnel.

CRJ 134. Community Based Corrections. 3 Units
Prerequisite(s): CRJ 101, CRJ 102 and CRJ 130; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Role of local and state government in the development of community-based correctional programs; regional detention facilities; recent trends in jail organization and management; ex-offenders and employment; the impact of community corrections on the criminal justice system.

CRJ 136. Corrections Administration. 3 Units
Prerequisite(s): CRJ 101, CRJ 130 and CRJ 160; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

Concepts of administration; corrections as a component of criminal justice; organization and management of correctional services and correctional institutions for delinquent youth and adult offenders; probation and parole; and the legal and political contexts of corrections.

CRJ 141. Police and Society. 3 Units
Prerequisite(s): Restricted to declared CRJ majors or minors or department chair permission.
Term Typically Offered: Fall, Spring

Examination of the origins, philosophy, objectives and priorities of the police service in the U.S. A. holistic analysis of political, social, economic, legal and other factors impacting the relationship between the police and the society they serve. Police use of discretion, police roles, police and minority groups, police and protest groups, police brutality, and police ethics are also studied.

CRJ 142. Police Administration. 3 Units
Prerequisite(s): CRJ 101, CRJ 141 and CRJ 160; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Concepts of organization and management; relationships between police agencies and the public, other criminal justice agencies, and other agencies of government; organization for delivery of police services: first response, crime investigation, youth services, vice, communications, and information management.

CRJ 144. Contemporary Issues in Police Administration. 3 Units
Prerequisite(s): CRJ 101 and CRJ 141; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Roles of police in a democratic society; analysis of public disobedience to law; racial and ethnic group relationships with police; public, official, and police corruption; police discretion; professionalism; development of criminal intelligence.

CRJ 151. White Collar Crime. 3 Units
Prerequisite(s): Junior/Senior status, Criminal Justice or Fire Service Management major or chair permission.
Term Typically Offered: Fall, Spring

Introduces students to a variety of white collar crime issues, including definitional complexities, the causes, frequency and impact of economic crime, and victim and offender profiles. Governmental corruption, organizational fraud, consumer and environmental offenses, anti-trust violations and international schemes will be covered. Students will also become familiar with methods used to investigate, prosecute and sentence white collar offenders. Policy considerations will be discussed for controlling national and international white collar crime.
CRJ 152. Interviewing and Detection of Deception. 3 Units
Prerequisite(s): CRJ 102; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring
Principles and techniques of interviewing and detection of deception studied from communication, physiological and psycho-social points of view. Introduction to the use of the polygraph; laws pertaining to confessions and admissions.

CRJ 153. Advanced Criminal Investigation. 3 Units
Prerequisite(s): CRJ 102; restricted to declared CRJ majors or declared Forensic minor or have chair permission.
Term Typically Offered: Fall, Spring
Principles involved in the investigation of crimes; utilization of scientific aids in obtaining information from physical objects; concepts in obtaining information from and about people; concept of reconstruction of crime and profile of suspect; development of leads; investigative problems in major crimes; special problems in crime investigation.

CRJ 154. Introduction to Physical Evidence. 3 Units
Prerequisite(s): CRJ 102; restricted to declared CRJ majors or Forensic Investigation minor or chair permission.
Term Typically Offered: Fall, Spring
Provides an overview of the role of science in collecting and evaluating physical evidence as a component of the criminal investigation and legal processes. Various operations in the examination and interpretation of physical evidence are examined with emphasis on the role of science in supporting the investigator and in the litigation process. Suitable for both science and non-science majors.

CRJ 156. Introduction to Crime and Intelligence Analysis. 3 Units
Prerequisite(s): CRJ 101; must be a declared CRJ major or have chair permission.
Term Typically Offered: Fall, Spring
Introduction to crime and intelligence analysis with a special emphasis on those methods most often used in the study of crime and criminal behavior patterns. Students will acquire the knowledge and skills necessary toward understanding crime analysis, intelligence analysis and mapping geospatial data. Topics include theory, the history of crime analysis, crime analysis technologies, intelligence analysis, and types/ functions of crime analysis.

CRJ 160. Justice and Public Safety Administration. 3 Units
Prerequisite(s): restricted to declared CRJ majors or minors or department chair permission.
Term Typically Offered: Fall, Spring
Examines the nature and development of public safety and criminal justice organizations in American society with attention to how the unique functions performed by these agencies has shaped and developed their nature. Particular emphasis is placed on understanding the unique problems generated by administration of bureaucratic, public agencies in a highly politized environment. Examines the influence of social and political factors on justice and public safety organizations.

CRJ 162. Intergovernmental Relations, Finance and Budgeting for Public Safety Personnel. 3 Units
Prerequisite(s): CRJ 160 or PPA 100; Junior or Senior standing; must be a Criminal Justice or Fire Service Management Major.
Term Typically Offered: Fall only
An examination of the structure, organization and management of state and local government with particular attention to the interplay between governmental agencies that is focused on the operations and management of public safety agencies. Government leadership models, such as mayor and city manager will be examined. Finance, the state and local budgets, taxation, revenue and spending will be addressed.

CRJ 163. Leadership in Criminal Justice and Public Safety. 3 Units
Prerequisite(s): CRJ 160; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring
Addresses role of leadership in shaping and directing complex justice and public safety organizations. Leadership styles, roles, communication, group dynamics and organizational culture are examined and applied to organizational maintenance, adaptation, and change. Also addresses the role of employee organizations and personal practices in shaping leadership options and styles in public agencies. Particular attention is focused on implementing leadership in the bureaucratic and public agencies typical to the fields of criminal justice and public safety administration.

CRJ 165. Planning for Justice and Public Safety. 3 Units
Prerequisite(s): CRJ 101, CRJ 102 and CRJ 160; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Spring only
Addresses planning in complex justice and public safety organizations. Focuses on the role of planning in preparing for change, maximizing utilization of resources and addressing crime and public safety. Emphasis is placed on the use of planning to unify fragmented public agencies at multiple levels of government in preparing for disaster, controlling crime, and assuring public safety.

CRJ 166. Personnel Administration in Criminal Justice and Public Safety Organizations. 3 Units
Prerequisite(s): CRJ 160; declared CRJ major or chair permission.
Term Typically Offered: Fall, Spring
This course provides an understanding of history, theories, laws, and practices related to contemporary as well as future criminal justice/public safety personnel administration and practice.

CRJ 167. Collective Bargaining and Arbitration Issues in Public Safety. 3 Units
Prerequisite(s): Must be a declared CRJ major or chair permission.
Term Typically Offered: Fall, Spring
This course is designed to provide the public safety student and/or criminal justice student, practitioner and/or administrator with an understanding of public safety personnel practices in the area of collective bargaining. Labor-management relations, dispute resolution, arbitration, and the various laws that govern labor-management relations, at all levels of government, will be covered.
CRJ 168. Justice and Public Safety Information Systems. 3 Units
Prerequisite(s): Restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

Introduction to criminal justice and public safety information systems. Provides a framework for understanding the needs, types, capabilities and applications of information systems to the field. Current uses are surveyed and future potential applications are examined.

CRJ 169. Emergency Management. 3 Units
Prerequisite(s): CRJ 164; Criminal Justice or Fire Service Management major, or instructor permission.
Term Typically Offered: Fall, Spring

Course reviews the history of emergency management, the current systems in place to manage mitigation, preparedness, response and recovery and the coordination and communication required to do so. Diverse responses to various emergencies will be presented with detailed examination of the roles of various levels of government and integration required. The formal declaration of emergencies and federal aid procedures, agencies involved and their administration will be covered.

CRJ 170. Human Trafficking and Slavery. 3 Units
Prerequisite(s): Junior/Senior level and CRJ majors only, or department chair permission.
Term Typically Offered: Fall, Spring

The course explores the international and domestic legal framework that defines human trafficking and slavery and analyzes the major theories and current research on related causes and risk factors. The role of involvement of transnational organized criminal groups and vulnerability of social groups are discussed. Lastly, the course provides a critical analysis of effective strategies in victim identification, protection, prosecution, and prevention as instrumental components in assessment of crime control policy.

CRJ 172. Comparative Criminal Justice Systems. 3 Units
Prerequisite(s): Junior status; restricted to declared CRJ majors or chair permission
Term Typically Offered: Fall, Spring

Examines representative criminal justice systems from a variety of nations with emphasis on the role of history, culture, social and political values and economic institutions in shaping institutions of justice including law, police, courts, corrections, and juvenile justice systems and practice. Attention is paid to conflict and cooperation between criminal justice systems and ideologies that occur when peoples of different cultures and systems are in close proximity.

CRJ 174. Criminal Justice Systems of the Future. 3 Units
Term Typically Offered: Fall, Spring

Societal structures, definitions of deviance and criminal behavior, social problems related to criminality, the nature of systems for handling criminals and sanctions in future societies.

CRJ 176. Security Systems. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Purposes, functions and historical development of industrial security in the U.S. Co-responsibilities of security personnel and line supervisors; principles of physical security; document protection; pilferage prevention and employee programs for plant and inventory protection. Survey of related laws and cooperating agencies of government.

CRJ 181. Topics in Criminal Justice. 3 Units
Prerequisite(s): CRJ 100 and CRJ 110; must be a CRJ major.
Term Typically Offered: Fall, Spring

Topics of interest to criminal justice students and faculty will be offered as the need arises.
Note: May be repeated provided the topic is different.

CRJ 190. Contemporary Issues in Criminal Justice. 3 Units
Prerequisite(s): CRJ 101, CRJ 102, CRJ 121, CRJ 123, CRJ 130, CRJ 141, CRJ 160; restricted to declared CRJ majors or chair permission with senior status, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Examination of current issues in criminal justice with an emphasis on the application of law, management, practice and ethics to analysis of contemporary criminal justice policy. The culminating event for criminal justice majors with an emphasis upon written and oral communication, research and analytical thinking.

CRJ 191. Topics in Criminal Justice Administration. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

CRJ 195. Internship. 1 - 6 Units
Prerequisite(s): Restricted to declared majors or chair permission and senior status
Term Typically Offered: Fall, Spring

Supervised work and experience in justice or public safety related agencies designed to expand the student's understanding of techniques, procedures and problems that occur in these agencies. Supervision provided by both faculty and agency personnel.
Note: may be repeated for credit

CRJ 196. Experimental Offerings in Criminal Justice. 2 - 4 Units
Prerequisite(s): Restricted to declared majors and minors or instructor permission.
Term Typically Offered: Fall, Spring

To be offered in the various fields of Criminal Justice in response to student needs.
CRJ 196A. The Mentally Ill Individual in the Criminal Justice System. 3 Units

Term Typically Offered: Fall, Spring

Overview and analysis of how mentally ill individuals interface with the criminal justice system, from first contacts with the police, to their entry into the jails, courts, and prisons, and then reentry into the community via parole and probation. The history of how the mentally ill became so embedded in the criminal justice system, whether mental illness has become criminalized, evidence-based mental health programs, and treatment for this population will be covered.

CRJ 196B. Law of Homeland Security and Emergency Management. 3 Units

Term Typically Offered: Fall, Spring

Current and historical developments relating to the laws surrounding homeland security and emergency management. Topics include the legal framework for the U.S. domestic preparedness and national incident management system, the role of the military in emergency response and homeland security, and the legal jurisdiction and authority of federal, state, and local public safety, as well as private sector institutions, in terrorism prevention and response. Course utilizes cases, statutes, executive orders, government reports, and scholarly research.

CRJ 196S. Ethics and the Criminal Justice System. 3 Units

Prerequisite(s): CRJ Majors or department chair permission

Term Typically Offered: Fall, Spring

Purpose of course is to learn various ethical considerations within the criminal justice system. Course will briefly explore the classical, philosophical foundations of ethics and proceed into surveying modern, ethical decision-making among the various criminal justice components. Criminal justice system ethics and decision-making of the police, prosecution, courts, corrections, and probation/parole from a managerial standpoint and a line perspective will be examined and critiqued. Emphasis will be placed on viable, practical solutions to ethical conundrums.

CRJ 198. Co-Curricular Activities. 1 - 3 Units

Prerequisite(s): Permission of the sponsoring professor and the Division Chair.

Term Typically Offered: Fall, Spring

Co-Curricular activities related to the subject matters and intellectual concerns of the Division of Criminal Justice, including service learning, related community service assignments, and service on University and community policy making bodies.

CRJ 199. Special Problems. 1 - 3 Units

Prerequisite(s): Restricted to declared CRJ majors or chair permission and senior status.

Term Typically Offered: Fall, Spring

Individual projects or directed reading, open only to those students who appear competent to carry on individual work.

CRJ 200. Research Methods in Criminal Justice. 3 Units

Prerequisite(s): Classified graduate status, satisfactory completion of a basic statistics course.

Term Typically Offered: Fall, Spring

Research theory and methodology in Criminal Justice; research designs; conceptual models; design and preparation of Master's thesis prospectus.

Note: Graduate Writing Intensive (GWI) course.

CRJ 201. Advanced Research Design and Data in Criminal Justice. 3 Units

Prerequisite(s): CRJ 200

This course provides applied explanations of advanced research designing, use of data development strategies, and techniques for effective data analysis using statistical software. Topics generally covered include: (1) issues and techniques in advanced research design with emphasis on theory testing and hypothesis formulation; (2) measurement, data collection strategies, reliability and validity of measures and results, sampling, surveys; and, (3) examination of qualitative versus quantitative research techniques, working with observational data, field research issues, and triangulation.

Note: Required core course

CRJ 205. Criminal Justice Policy Analysis. 3 Units

Prerequisite(s): Classified Graduate status, CRJ 200, CRJ 201, CRJ 255, and CRJ 260.

Term Typically Offered: Fall, Spring

Examination of responses of the criminal justice system to major current issues with attention to factors influencing their effects; review of uses and limitations of various responses; appraisal of the consequences of various criminal justice policy alternatives.

CRJ 207. Criminal Justice Research and Program Evaluation. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Systematic review of selected evaluations of major criminal justice programs, demonstration projects, experiments, and innovations; introduction to basic techniques of interpretation and analysis of research findings to determine outcomes.

CRJ 210. Critical Examination of Law and Justice. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Examines the historical, theoretical, and practical developments that gave rise to the dominance of legal formalism in the American legal tradition. Examines the multiple challenges to that model, including legal realism, the sociology of law, critical legal studies, and critical race theory. Will critically examine the intersection of the American legal tradition with issues concerning the possibility and implementation of social justice strategies in diverse, and increasingly global contexts.
CRJ 220. Politics of Crime Legislation. 3 Units
Prerequisite(s): Classified Graduate status, CRJ 200, CRJ 201, CRJ 255, and CRJ 260.
Term Typically Offered: Fall, Spring

Familiarizes students with the legislative process, the performance of the legislature as it relates to the handling of crime bills and the role of interest groups and politics in the process of initiating and passing laws. Topics include: theoretical models of lawmaking, factors in legislative decision-making, the politics of crime legislation, ethics in politics, and how people influence and use the legislative process.

CRJ 230. The Prison. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Contemporary penal institutions will be studied using the literature in the social sciences, the biographies of prisoners, and the writings of prison critics.

CRJ 231. Graduate Seminar in Corrections. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Provides a historical analysis and discussion of the current state of corrections and correctional management. Theories of punishment will be addressed and management techniques will be covered. Goes beyond concepts of institutionalized corrections to explore modern correctional alternatives, correctional policy and special topics relevant to corrections.

CRJ 233. Psychodynamics of Confinement. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Examination of current conditions of confinement; review of confinement related factors common to populations in penal institutions, military installations, mental hospitals, prisoner of war camps, and concentration camps; investigation into the broader implications of conditions of confinement for society; survey of practical strategies for developing and implementing standards for confined populations.

CRJ 240. Contemporary Issues in Policing. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

In-depth study of contemporary issues in policing in the U.S., including management, organization and issues confronting law enforcement at federal, state and local levels.

CRJ 250. Comparative Analysis of the Criminal Justice System. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Examination of alternative systems for criminal justice provides a basis for improved understanding of organizational and functional components within given sociopolitical environments. Through comparison of formal and operational levels, decision-making processes are made explicit with reference to historical, legal, social, and economic parameters in the administration of justice.

CRJ 251. White-Collar Crime. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Examines the underlying theories and the diverse nature of white-collar crime. Studies offenses associated with corporations, occupations, governments, enterprises and individuals. Examines the offenders and the organizational culture that facilitates criminal action. Topics include embezzlement, political corruption, employee theft, fraud, computer crime, and environmental crime. Study consequences for victims, offender characteristics and the theoretical explanations for the decisions by criminals to commit white-collar crimes.

CRJ 252. Violence and Victims. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Comprehensive survey of the literature on violence emphasizing high-fear crimes; the repetitively violent criminal; the emerging field of victimology; improved delivery of social services to victims; juvenile gangs; and the response of criminal justice agencies to urban violence.

CRJ 255. Crime, Criminology and Criminal Justice. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Study of major criminological theories, their ideological premises and basic assumptions, interrelationships, and the shifts in emphasis and focal points in the study of criminality. Analyzes post and current applications of theory to the intervention strategies of crime control.

CRJ 256. Historical Analysis of the American Criminal Justice System. 3 Units
Prerequisite(s): Classified graduate status; CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Evolution and historical foundations of American patterns of crime and violence, criminological theories, law enforcement structures and philosophies, the adult criminal justice system, and the juvenile system will be traced through three distinct historical periods: Colonial and Early American Roots, 1609-1814; Creating the American Criminal Justice System, 1815-1900; and Reforming the Criminal Justice System, 1900 to present.

CRJ 257. The Nature Of Terrorism. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Theoretical approaches to the study of terrorism and analysis of terrorist theory and strategies. Topics include operational definitions of terrorism, typologies of terrorism, threat analysis of terrorism in the U.S., and responses of the criminal justice system to acts of hostage-taking, bombing, political murder, and narco-terrorism.

CRJ 260. Management of Complex Justice Organizations. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Description, analysis, solution, and synthesis of contemporary management problems in criminal justice organizations; presentation and exemplary implementation of management concepts significant to criminal justice organizations; review of case studies for management problem recognition; and the study of operational systems.
CRJ 262. Administration of Juvenile Justice. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Theoretical and empirical study of the cause and control of delinquent behavior. Assessment of policies and practices of agencies involved in juvenile justice including the impact of recent federal and state legislation.

CRJ 266. Personnel Administration in Justice Organizations. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Provides an in-depth understanding of the history, theories, laws, processes, issues and unique environment shaping contemporary personnel administration in a variety of criminal justice agencies.

CRJ 267. Criminal Justice Issues in Collective Bargaining and Arbitration. 3 Units
Prerequisite(s): Classified graduate status; CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Designed to provide the criminal justice practitioner and administrator with an understanding of criminal justice labor-management relations and collective bargaining and difference resolution, along with conflict resolution practices as applied to inmate-custody and control situations.

CRJ 281. Special Topics in Criminal Justice. 3 Units
Prerequisite(s): CRJ 200 & CRJ 255, or equivalent.
Term Typically Offered: Fall

Introduces students to a variety of pressing issues as special topics that impact Criminal Justice and provides an opportunity to explore those special topics in greater depth. Students conduct research using multiple sources on a variety of topics, participate in seminar discussions, and present findings in presentations and reports.

Note: May be repeated for credit with permission of the Graduate Coordinator when the special topic is different.

CRJ 289. Criminal Justice Systems of the Future. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall

Societal structures, definitions of deviance and criminal behavior, social problems related to criminality, the nature of systems for handling criminal and sanctions in future societies.

CRJ 295. Internship. 3 Units
Prerequisite(s): Classified graduate status
Term Typically Offered: Fall

Supervised graduate student placement in selected criminal justice agencies with emphasis on research and evaluation project assignments. Credit/No Credit

CRJ 296A. The Mentally Ill Individual in the Criminal Justice System. 3 Units
Prerequisite(s): Graduate student status
Term Typically Offered: Fall, Spring

A critical analysis of how mentally ill individuals interface with the criminal justice system, from first contacts with the police, to their entry into the jails, courts, prisons, and then reentry into the community via parole and probation. Current and historical topics about the mentally ill will be explored via an in-depth analysis of the current literature regarding the mentally ill in the criminal justice system, which will be reviewed and critiqued.

CRJ 296K. Emergency Management. 3 Units
Prerequisite(s): Graduate status; CRJ 200, CRJ 255, CRJ 256 and CRJ 260 or chair permission.
Term Typically Offered: Fall, Spring

Introduction to the authority, organization, responsibilities, challenges, and issues related to emergency management in California and the U.S., examines the implications of citizen involvement in preparation for and management of natural and man-made disasters. Graduate students will consider impact of terrorism on democratic governance issues and potential future trends and issues.

CRJ 299. Special Problems. 1 - 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who are competent to carry on individual work. Credit/No Credit

CRJ 500. Culminating Experience. 3 Units
Prerequisite(s): Advancement to candidacy.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master’s degree. A thesis requires an original contribution to knowledge in a traditional research format. A project is a significant undertaking of a pursuit appropriate to the profession. It must evidence originality and independent thinking, appropriate form and organization and a rationale.

CRJ 501. Culminating Experience: Thesis/Project Development. 3 Units
Prerequisite(s): Advancement to candidacy.
Term Typically Offered: Fall, Spring

Provides students with an opportunity to develop a foundation for their culminating experience. Students will complete the initial components of their project or thesis including the Statement of the Problem, Literature Review, and Human Subjects application. Students are expected to read assigned materials and engage in weekly discussions about their progress and experience with other students, the instructor, and their advisor (as needed). Credit/No Credit
CRJ 502. Culminating Experience: Thesis or Project. 3 Units
Prerequisite(s): Advanced to candidacy; satisfactory completion of CRJ 501.
Term Typically Offered: Fall, Spring
Completion of a thesis or project approved for the Master's degree. A thesis requires an original contribution to knowledge in a traditional research format. A project is a significant undertaking of a pursuit appropriate to the profession. It must evidence originality and independent thinking, appropriate form and organization and a rationale.
Credit/No Credit

Dance (DNCE)

DNCE 1A. Jazz Dance Level IA. 2 Units
Term Typically Offered: Fall, Spring
Theory and practice of basic beginning jazz techniques.
Note: May be repeated for up to 4 units of credit.

DNCE 1B. Jazz Dance Level IB. 2 Units
Term Typically Offered: Fall, Spring
Continued theory and practice of beginning jazz techniques.
Note: Does not satisfy degree requirements for major, all students welcome. May be repeated for up to 4 units of credit.

DNCE 1C. Jazz Dance Level IC. 2 Units
Term Typically Offered: Fall, Spring
Further theory and practice of beginning jazz techniques.
Note: May be repeated for up to 4 units of credit.

DNCE 2A. Contemporary Dance Level IA. 2 Units
Term Typically Offered: Fall, Spring
Introduction to the history and techniques of the contemporary dance and modern dance tradition through basic dance principles and aesthetics including the introduction to contemporary movement to develop and improve strength, flexibility, balance, coordination and creative expression.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 2B. Contemporary Dance Level IB. 2 Units
Term Typically Offered: Fall, Spring
Continues the introduction of the history and techniques of contemporary dance and the modern dance tradition through a deepened study of basic dance principles and aesthetics including the continued practice of contemporary movement to continue the development and improvement of strength, flexibility, balance, coordination and creative expression.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 2C. Contemporary Dance Level IC. 2 Units
Term Typically Offered: Fall, Spring
Further introduction to the history and techniques of the contemporary dance and modern dance tradition through a further study of basic contemporary dance principles and aesthetics including the further practice of contemporary movement for the deepened development and improvement of strength, flexibility, balance, coordination and creative expression.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 3A. Ballet Level IA. 2 Units
Term Typically Offered: Fall, Spring
Introduction to the history and development of traditional ballet techniques. Students will study ballet principles and aesthetics and continue to learn basic ballet movement, vocabulary, and skills.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 3B. Ballet Level IB. 2 Units
Term Typically Offered: Fall, Spring
This course provides a continued introduction to the history and development of traditional ballet techniques. Students will study ballet principles and aesthetics and continue to learn basic ballet movement, vocabulary, and skills.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 3C. Ballet Level IC. 2 Units
Term Typically Offered: Fall, Spring
This course provides a further introduction to the history and development of traditional ballet techniques. Students will expand upon their earlier study of ballet principles and aesthetics and continue to learn basic ballet movement, vocabulary, and skills.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 4A. Tap Dance Level IA. 2 Units
Term Typically Offered: Fall, Spring
Introduction to fundamental tap dance skills including basic steps, history and vocabulary, and style development.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirement, all students welcome.

DNCE 4B. Tap Dance Level IB. 2 Units
Term Typically Offered: Fall, Spring
Continued introduction to fundamental tap dance skills including a deepened study of basic steps, history and vocabulary, and continued style development.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.
DNCE 4C.     Tap Dance Level IC.  
Term Typically Offered: Fall, Spring  
2 Units

Further introduction to fundamental tap dance skills including an expanded study of basic steps, history and vocabulary, and further style development  
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 5A.     Mexican Folklorico Level IA.  
Term Typically Offered: Fall, Spring  
2 Units

Introduction to dances typically and traditionally performed by Mexican and Latin Americans exploring the interrelationship of dance culture to historical events, holidays, and people throughout the Americas and with opportunities to learn folk dances representative of specific regions of Mexico and Latin America.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 5B.     Mexican Folklorico Level IB.  
Term Typically Offered: Fall, Spring  
2 Units

Continued introduction to dances typically and traditionally performed by Mexican and Latin Americans with deepened exploration of the interrelationship of dance culture to historical events, holidays, and people throughout the Americas and with further study of folk dances representative of specific regions of Mexico and Latin America.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirement, all students welcome.

DNCE 5C.     Mexican Folklorico Dance Level IC.  
Term Typically Offered: Fall, Spring  
2 Units

Further introduction to dances typically and traditionally performed by Mexican and Latin Americans with expanded exploration of the interrelationship of dance culture to historical events, holidays, and people throughout the Americas and with further study of folk dances representative of specific regions of Mexico and Latin America.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirement, all students welcome.

DNCE 6A.     Hip Hop Level IA.  
Term Typically Offered: Fall, Spring  
2 Units

Introduction to the fundamentals of Hip Hop and Urban dance skills, including basic steps, history, and vocabulary.

Note: May be repeated for up to 4 units of credit. Does not satisfy degree requirement, all students welcome.

DNCE 6B.     Hip Hop Level IB.  
Term Typically Offered: Fall, Spring  
2 Units

Continues the introduction of the fundamentals of Hip Hop and Urban dance skills, with a deepened study of basic steps, history, and vocabulary.

Note: May be repeated for up to 4 units of credit, does not satisfy degree requirement, all students are welcome.

DNCE 6C.     Hip Hop Level IC.  
Term Typically Offered: Fall, Spring  
2 Units

Further introduction of the fundamentals of Hip Hop and Urban dance skills, with an expanded study of basic steps, history, and vocabulary.

Note: May be repeated for up to 4 units of credit, does not satisfy degree requirement, all students are welcome.

DNCE 11A.     Jazz Dance Level IIA.  
Term Typically Offered: Fall, Spring  
2 Units

Theory and practice of current jazz techniques including continued study of movement vocabulary with an emphasis on the different jazz styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 11B.     Jazz Dance Level IIB.  
Term Typically Offered: Fall, Spring  
2 Units

Continued theory and practice of current jazz techniques including the continued study of movement vocabulary with an emphasis on the different jazz styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during the first week of classes, all students welcome.

DNCE 11C.     Jazz Dance Level IIC.  
Term Typically Offered: Fall, Spring  
2 Units

Further expanded theory and practice of current jazz techniques including the deepened study of movement vocabulary with an emphasis on the different jazz styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during the first week of classes, all students welcome.

DNCE 12A.     Contemporary Dance Level IIA.  
Term Typically Offered: Fall, Spring  
2 Units

Examination of theories of the contemporary dance and modern dance tradition that develops proficiency in performing intermediate level contemporary dance techniques from an intellectual and kinesthetic understanding. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 12B.     Contemporary Dance Level IIB.  
Term Typically Offered: Fall, Spring  
2 Units

Continued examination of theories of the contemporary dance and modern dance tradition that continues the proficiency in performing intermediate level contemporary dance techniques with a deepened intellectual and kinesthetic understanding. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.
DNCE 12C. Contemporary Dance Level IIC. 2 Units
Term Typically Offered: Fall, Spring

Further examination of theories of the contemporary dance and modern dance tradition that further expand the proficiency in performing intermediate level contemporary dance techniques from a deeper intellectual and kinesthetic understanding. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 13A. Ballet Level IIA. 2 Units
Term Typically Offered: Fall, Spring

Understand and demonstrate proficiency of Ballet movement and vocabulary including different styles while learning the importance of proper anatomical alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 13B. Ballet Level IIB. 2 Units
Term Typically Offered: Fall, Spring

Continued understanding and deepened demonstration of proficiency of Ballet movement and vocabulary including different styles while learning the importance of proper anatomical alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 13C. Ballet Level IIC. 2 Units
Term Typically Offered: Fall, Spring

Further understanding and expanded demonstration of proficiency of Ballet aesthetics through Ballet movement and vocabulary including different styles while learning the importance of proper anatomical alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 14A. Tap Dance Level IIA. 2 Units
Term Typically Offered: Fall, Spring

Development and refinement of intermediate tap skills and vocabulary through the study of historical and current tap styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 14B. Tap Dance Level IIB. 2 Units
Term Typically Offered: Fall, Spring

Continued development and refinement of intermediate tap skills and vocabulary through the deepened study of historical and current tap styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 14C. Tap Dance Level IIC. 2 Units
Term Typically Offered: Fall, Spring

Further development and refinement of intermediate tap skills and vocabulary through the expanded study of historical and current tap styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

DNCE 22. Music for Dance. 2 Units
Prerequisite(s): DNCE 1A or DNCE 1B or DNCE 1C or DNCE 2A or DNCE 2B or DNCE 2C or instructor permission.
Term Typically Offered: Fall only

Experiential course exploring the musical elements utilized by the dancer, choreographer, and teacher of dance including a survey of music history and vocabulary; rhythms and theory; musical and dance phrasing; and dance performance musicality. This course fulfills requirements for the Dance Major and Dance Minor, non-dance major or minor students welcome.

DNCE 96A. Hip Hop Level IIA. 2 Units
Term Typically Offered: Fall, Spring

Theory and practice of Hip Hop and Urban dance skills, including continued study of steps/movement, history, and vocabulary with an emphasis on multiple styles. May be counted for Dance Major with advisor approval, all students are welcome. Instructor permission through course audition required.

Note: May be repeated for up to 4 units of credit

DNCE 111A. Jazz Dance Level IIIA. 2 Units
Term Typically Offered: Fall, Spring

Advanced training in the theory and practice of jazz techniques. Instructor with dance faculty representatives will audition students during first week of class for proper placement.

Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.
DNCE 111B. Jazz Dance Level III B.
Term Typically Offered: Fall, Spring

Continued training at the advanced level in the theory and practice of Jazz Dance techniques. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 111C. Jazz Dance Level III C.
Term Typically Offered: Fall, Spring

Further advanced training at a deepened level for the theory and practice of jazz techniques. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 112A. Contemporary Dance Level III A.
Term Typically Offered: Fall, Spring

Advanced training in the theory and practice of Contemporary Dance techniques and Modern Dance Traditions. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 112B. Contemporary Dance Level III B.
Term Typically Offered: Fall, Spring

Continued training at the advanced level in the theory and practice of Contemporary Dance techniques and Modern Dance Traditions. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 112C. Contemporary Dance Level III C.
Term Typically Offered: Fall, Spring

Further advanced training at a deepened level for the theory and practice of Contemporary Dance techniques and Modern Dance Traditions. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 113A. Ballet Level III A.
Term Typically Offered: Fall, Spring

Advanced training in the theory and practice of Ballet including proper alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 113B. Ballet Level III B.
Term Typically Offered: Fall, Spring

Continued training at the advanced level in the theory and practice of Ballet including proper alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 113C. Ballet Level III C.
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Further refinement within the proficiency of performing Ballet techniques while expanded intellectual and kinesthetic understanding of different Ballet styles which will be attained through the further emphasis of anatomy and the expanded building of the bodily strength and endurance through barre and center work.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 118. Dance Improvisation.
Term Typically Offered: Spring only

Exploration of the creation of movement through improvisation. Students will simultaneously explore and create, while spontaneously performing inner-directed movement without intellectual censorship.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 120. Dance Composition I.
Prerequisite(s): DNCE 118 or instructor approval
Term Typically Offered: Fall only

An exploration of the principle elements and processes utilized in the choreographic process.
Note: Satisfies degree requirements, all students welcome

DNCE 122. Dance Composition II.
Prerequisite(s): DNCE 120 or Instructor permission.
Term Typically Offered: Fall, Spring

An in-depth exploration of the concepts, approaches, and processes used to further develop a stylistic approach to Dance Composition.
Note: Satisfies degree requirements, all students welcome.

DNCE 130. Appreciation and History of Dance.
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey in the appreciation and history of dance and the relationship of dance to the fine and liberal arts in Western Civilization. Emphasis upon the history of ballet; American modes of expression: modern and jazz forms.
Note: Non-activity.
DNCE 131. Dance Cultures Of America. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey course in the appreciation and understanding of dance cultures in America. The relationship of dance to the identity and expression of different cultural groups in the U.S. will be examined. Jazz, modern, and ballet from a multicultural perspective will be the focus of the class.
Note: Non-activity.

DNCE 132. African-Caribbean Dance. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Introduction to the rich dance cultures of the Caribbean. Students will learn the different dances of Haiti, Cuba, Jamaica and Trinidad as they relate to their function in secular and religious culture, including the study of the Dunham Dance Technique.
Note: May be repeated for up to 6 units of credit.

DNCE 142. Dance Science and Somatics. 3 Units
Prerequisite(s): Upper division standing, or instructor permission.
Term Typically Offered: Fall, Spring

The study of skeletal structure, joint and muscle function, and the mechanics of movement geared specifically for dancers and movement practitioners. Incorporated into the course will be the study of embodied awareness practices - Somatics. The structural and energetic connections of the body will be explored within a context of both ease and efficiency of movement as well as creative expression.
Note: May be repeated for up to 6 units of credit. Satisfies degree requirement, all students welcome.

DNCE 143. University Dance Company. 1 Unit
Term Typically Offered: Fall, Spring

Participation in the University Dance Company includes pre-professional dance conditioning and performance skill acquisition. Fulfills requirement for Dance Major and elective for Dance Minor; all students welcome to audition.
Note: Admission by audition only, this course is approximately 30 hours of participation in mandatory weekly class.

DNCE 150. Dance Theory and Criticism. 3 Units
Prerequisite(s): DNCE 122, DNCE 130, DNCE 131, instructor permission.
Term Typically Offered: Fall, Spring

Exploration of the contemporary theories and philosophies of movement, specifically in the dance genres of modern and jazz. Also explores personal aesthetics and how to look at dance from a critical writing and oral presentation perspective. The role of the audience as well as the critic will be assessed and students will learn to evaluate content of movement in relation to its intention, motivation, and delivery.

DNCE 160. Creative Dance for Children. 3 Units
Term Typically Offered: Spring only

Exploration of creative dance as it applies to young children; including exploration of non-locomotor and locomotor movement patterns through problem solving and guided discovery techniques.
DEAF 57. ASL Classifiers. 2 Units
Prerequisite(s): DEAF 53; may be taken concurrently
Term Typically Offered: Spring only

Students will develop increased understanding of the types and uses of classifiers in ASL and develop further abilities to utilize this component of ASL in their expressive and receptive signing abilities through in-class practice, viewing of videotaped narratives, and individual practice outside of class.

DEAF 60. Introduction to Deaf Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Course introduces students to topics central to the deaf and deaf community, including audiology, education, culture, and history. Utilizing readings, lectures and group discussion, students will learn about the anatomy and causes of deafness, early intervention and education of deaf children, communication strategies and their effectiveness, the deaf as a cultural group and deaf/hearing relationships. Upon course completion, students will understand deaf individuals and their community in a holistic perspective and apply this knowledge toward further studies into the deaf culture and community.

DEAF 154. American Sign Language 4. 4 Units
Prerequisite(s): DEAF 53
Term Typically Offered: Fall, Spring

Principles, methods and techniques of manual communication with deaf people using American Sign Language. Emphasis on the continuation of developing advanced manual communication skills with a focus on techniques for informing others of factual information and instruction about rules and methods for students who will work or interact with adult deaf persons. Continuation of the analysis of the culture of deafness with emphasis on participation in the community.

Note: Taught in ASL without voice.

DEAF 155. American Sign Language 5. 4 Units
Prerequisite(s): DEAF 154 or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Students will build upon communicative skills developed in EDS 154 to develop and expand on their abilities to discuss parts of the body and health conditions, tell a personal narrative about themselves and moments in their and others’ lives, as well as to retell and translate simple stories into ASL.

DEAF 161. Deaf History. 3 Units
Prerequisite(s): DEAF 60, DEAF 154
Term Typically Offered: Fall, Spring

An overview of the education of the deaf from prehistoric times to the present will be provided. Roots of current trends and events in deaf education will be explored, with projections for the future. Current issues such as mainstreaming, cochlear implants, communication modalities for instruction and others are discussed in both a historical context and from a deaf perspective.

DEAF 162. Deaf Culture and Community. 3 Units
Prerequisite(s): DEAF 60, DEAF 154
Term Typically Offered: Fall, Spring

Course introduces students to deaf people as a cultural and linguistic minority in America through coverage of sociolinguistic, anthropological, and historic issues in the development of deaf culture and community in America and worldwide. Utilizing readings, lectures and group discussion, topics will include: theories of culture; language use; cross-cultural interaction and intercultural processes, and deaf literature and art. Upon course completion, students will understand current and past educational, legal and medical policies and their impact on deaf and hard-of-hearing people.

DEAF 163. ASL Literature. 3 Units
Prerequisite(s): DEAF 154
Term Typically Offered: Spring only

Students will learn several different forms of ASL literature. Aspects of both form and content will be analyzed as well as their role in the preservation and circulation of Deaf cultural forms. Students will also learn to perform narratives and/or poems in ASL. They will understand the effects of genre, style, perspective, and other artistic techniques on ASL signed art performances, and utilize similar techniques in their developed performances. Students may perform their stories for a general audience.

Note: Course taught in ASL with No Voice.

DEAF 164. Sign Language Structure and Usage. 3 Units
Prerequisite(s): DEAF 154 or instructor permission.
Term Typically Offered: Fall only

Examines origins and linguistic structure of American Sign Language (ASL). Cross-linguistic comparisons with spoken and signed languages of other countries will be made. Students will learn aspects of ASL phonology, morphology and syntax. Sociolinguistic aspects of ASL usage in regard to gender, ethnicity, geographical region and educational status will be discussed. Conducted entirely in American Sign Language.

DEAF 165. Seminar: Current Issues in the Deaf World. 3 Units
Prerequisite(s): DEAF 154 or instructor approval.
Term Typically Offered: Fall, Spring

This course will explore a specific theme of interest to faculty and students within the program, with course content changed each semester. Selected topics will touch upon issues of special concern and interest to the Deaf community such as genetics, multicultural issues, media representations of deafness, theatre and performance art, visual arts, and other subjects which may arise in the future. Course will consist of readings, discussion, independent research, and viewing of various media as appropriate.

Note: 1) May be repeated when different topic is offered with a different instructor of record 2) Course taught in ASL with No Voice.

DEAF 165A. Spec. topic: English/ASL Translation. 3 Units
Prerequisite(s): DEAF 154
Term Typically Offered: Fall only – even years

This course will focus on translation from written English to ASL. Texts will be examined at the lexical, phrasal, sentential, and extended text levels. Idiomatic and metaphorical language will also be explored. The aim of this course is to develop an understanding of the lexical and syntactical relationships between ASL and English, with the end goal being the students’ ability to produce grammatically and conceptually correct signed translations of printed English texts.
DEAF 165B. Spec. Topic: Deaf Education - Power & Politics. 3 Units
Prerequisite(s): DEAF 60, DEAF 154, DEAF 161, DEAF 162
Term Typically Offered: Spring only – even years

This course will explore issues of special concern and interest to the Deaf community. More specifically, this course will explore power dynamics and politics of Deaf education through four different dimensions: Language deprivation, audism, educational leadership, and parents of d/Deaf children. The course will consist of readings, discussion, independent research, and viewing of various media as appropriate.

DEAF 165C. Technology and The Deaf Community. 3 Units
Prerequisite(s): DEAF 154 or instructor permission.
Term Typically Offered: Fall only – odd years

This course will focus on technology for communication and sound access and its use within the Deaf Community. The history of this technology and its development will be examined for what makes it useful and acceptable to Deaf/HOH individuals. This overview will include analysis of the processes of development and marketing of these devices. The hidden burden of device development and usage will be examined using need and usability analysis.

Note: Conducted entirely in American Sign Language.

DEAF 165D. Spec. Topic: Global Deaf Languages & Cultures. 3 Units
Prerequisite(s): DEAF 60, DEAF 154, DEAF 162
Term Typically Offered: Spring only – odd years

This course explores the phenomenon of International Sign, centering around three themes: (1) Sociolinguistics – How languages emerge and change; (2) International Sign – What it is, what it isn’t, and how meaning is constructed; and (3) Deaf Communities around the globe.

DEAF 165E. Deaf Representation in Media. 3 Units
Prerequisite(s): DEAF 60, DEAF 154, DEAF 162
Term Typically Offered: Spring only – odd years

This course will explore issues of special concern and interest to the Deaf community, specifically relating to Deafness and mass media representation. Examples from journalism, TV, film, advertising, photography, documentaries, comic art, and the Internet will be provided and analyzed. The course will consist of readings, discussion, independent research, and viewing of various media as appropriate.

DEAF 166. Experiences in the Deaf Community - Dynamics of Oppression and Building Allyship. 3 Units
Prerequisite(s): DEAF 155, DEAF 161, DEAF 162.
Term Typically Offered: Fall, Spring, Summer

This course links active participation in the Deaf community to the content of previous Deaf Studies courses. In particular this course examines how to be a good ally within the Deaf community in the midst of a context of power, privilege and difference. Following a Service Learning model, students will collaborate on various service projects contributing to the Deaf community. Field trip.

Note: Course taught in ASL with No Voice.

Field trip(s) may be required.

DEAF 199. Independent Study in Deaf Studies. 1 - 3 Units
Prerequisite(s): DEAF 154
Term Typically Offered: Fall, Spring

Individual projects designed especially for students capable of independent study.

Note: Departmental petition required.
DSGN 101.  World Design and Visual Culture.  3 Units
Term Typically Offered: Fall only

A history of western and non-western design with an emphasis on how design influences, and in turn influenced by, cultural, political, economic, and technologic forces. The course will look at design practice (architecture, urbanism, products, graphics, etc.) through two distinct lenses: one focusing on visual and physical qualities, the other on how design effects the lives of the many diverse groups that interact with the products of this practice.

Economics (ECON)

ECON 1A.  Introduction to Macroeconomic Analysis.  3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introductory inquiry into the workings and interrelationships of the aggregate economic system. The primary focus is on total production and its distribution, employment and price levels, and the forces influencing them. Other considerations are the roles of government, the monetary sector, and related areas.

ECON 1B.  Introduction to Microeconomic Analysis.  3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introductory microeconomic analysis of the workings of supply and demand in the determination of price, resource allocation, and distribution. Markets are analyzed as they affect economic efficiency and income distribution.

ECON 21.  First Year Seminar: Becoming an Educated Person.  3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to higher education for an economics major or student interested in social sciences, to the resources of the University, and to the skills for lifelong learning. Designed to help students develop academic success strategies, time management, and to improve information literacy, intercultural competence, and integrative thinking. Special attention to how economists view the world and an understanding of current events and social issues. Provides students with the opportunity to interact with peers and faculty, building a community of support.

ECON 100A.  Intermediate Macroeconomic Theory.  3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Analysis of the determinants of the aggregate level of output, income, employment and prices.

ECON 100B.  Intermediate Microeconomic Theory.  3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Analysis of household and firm behavior as the foundation of supply and demand.

ECON 101.  History of Economic Thought.  3 Units
Prerequisite(s): ECON 1A, ECON 1B.
Term Typically Offered: Fall, Spring

Analysis of the development of economic theory from the predecessors of Adam Smith through John Maynard Keynes. The contributions made to the discipline by its principal figures are compared and evaluated.

ECON 104.  Introduction to the United States Economy.  3 Units
Term Typically Offered: Fall, Spring

One semester survey of the principles of economics, basic methods of economic analysis, and their application to public policy and current events.

Note: Not open to students who have had ECON 1A or ECON 1B or those majoring in economics.

ECON 110.  Cost Benefit Analysis.  3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Examines the rationale for government provision of goods and services and presents cost-benefit analysis as a method to evaluate public participation in a market economy.

ECON 112.  European Economic History.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Analysis and evaluation of the economic forces and institutions shaping European economic development through the present period. Attention will be paid to the relationship between changes in the economic environment and attendant cultural, political, and ideological developments in the stages of tribalism, slavery, feudalism, capitalism, and socialism.

ECON 113.  Economic History of the United States.  3 Units
Prerequisite(s): ECON 1A or ECON 104.
Term Typically Offered: Fall, Spring

Consideration of the economic growth and development of the U.S. with emphasis on a theoretical analysis of the economic factors shaping the national destiny.

ECON 114.  The California Economy.  3 Units
Prerequisite(s): ECON 1A and ECON 1B, or ECON 104.
Term Typically Offered: Fall only

Examination of the process of the development of the State's economy as well as analysis of the various public economic issues that are of contemporary concern to Californians.

ECON 120.  Economics and Environmental Degradation.  3 Units
Term Typically Offered: Fall, Spring

Analyzes environmental issues as economic issues. Economics as both a cause and cure for environmental destruction.

ECON 123.  Resource Economics.  3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Analyzes the economic based problem of exhaustion in both renewable and non-renewable resources. Emphasis is given to the optimal use of these resources over time and the effects that various market and non-market factors have on their future availability.
ECON 130. Public Finance. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade; ECON 100B recommended.
Term Typically Offered: Fall, Spring
Economic analysis of the public sector and its impact on the allocation of resources and the distribution of income. Emphasis given to the economics of government expenditure and taxation.

ECON 132. State and Local Government Finance. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall only
Analysis of the economics of state and local government finance, with an emphasis on California's fiscal system.

ECON 135. Money and Banking. 3 Units
Prerequisite(s): ECON 1A and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring
Examines the role of financial markets, the banking system, and the Federal Reserve System in the economy. Included are an introduction to present value and the behavior of interest rates, analysis of money creation, and evaluation of monetary policy.

ECON 138. Monetary and Fiscal Policy. 3 Units
Prerequisite(s): ECON 100A and ECON 140 with a minimum "C" grade.
Term Typically Offered: Fall, Spring
Analyzes the policies of central banks and fiscal authorities as they relate to the stability and growth of the macroeconomy. Examines the theoretical and empirical literature regarding the conduct of monetary and fiscal policy and applies the tools of economic analysis to understand macroeconomic policy debates.

ECON 140. Quantitative Economic Analysis. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, STAT 1, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring
Examination of the basics of conducting quantitative economic analysis. Included are basic concepts and methods of data analysis and research. Students will examine economic data using spreadsheets, will develop presentation skills, and be introduced to career opportunities.

ECON 141. Introduction to Econometrics. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, ECON 140, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade; ECON 100A or ECON 100B recommended.
Term Typically Offered: Fall, Spring
Covers the basics of regression analysis, estimation, and forecasting.

ECON 145. Economic Research Methods. 3 Units
Prerequisite(s): ECON 100A, ECON 100B, ECON 140 with a minimum "C" grade; GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring
Covers the basics of conducting applied economic research: the selection of topic, literature survey, choice of research method, formulation of hypothesis, testing of hypothesis using empirical analysis, and summary and conclusions. Designed to enhance the students ability to integrate economic theory, quantitative research skills, and research.

ECON 150. Labor Economics. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Spring only
Economic analysis of labor markets, with special reference to employment, wage determination, and the role of government.

ECON 152. Economics of Education. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall only
Introduction to the various aspects of the economics of education. Applies the tools of economic analysis to education policy and problem solving. Topics include cost-benefit analysis of education, the signaling vs. human capital debate, race and gender issues in education, education production functions, and financing education at the elementary, secondary, and post-secondary levels. Emphasis placed on individual and social choice in education.

ECON 153. Health Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall only
Introduction to the field of health economics. Applies the tools of economics to the production of health and health care. Special emphasis on health care institutions, the role of industry, health care reform, and the role of government, in addition to the public provision of care to the disadvantaged.

ECON 150. Labor Economics. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Spring only
Economic analysis of labor markets, with special reference to employment, wage determination, and the role of government.

ECON 162. Energy Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring
Analyzes the structure, conduct, and consequences of domestic and international energy markets. Particular emphasis on regulated industries including petroleum, electrical, and other power sources. The economic impact on energy markets of emerging technology is examined.
ECON 163. Behavioral and Experimental Economics. 3 Units
Prerequisite(s): ECON 100B
Term Typically Offered: Fall only

Introduction to the fields of behavioral and experimental economics. Applies tools of microeconomic theory to the decisions made by individuals. Special emphasis on the utility maximization hypothesis, decision making in the face of risk and uncertainty, intertemporal choice, other regarding preferences, game theory, and neuroeconomics.

ECON 170. Public Economics and Regulation. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Spring only

Examination of government regulation of industry in the North American context: transportation, communication, energy, and other industries. Issues include deregulation, public ownership, pricing, and investment.

ECON 180. Urban Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Spring only

Economic analysis and appraisal of models of urban development. Includes consideration of the rise of cities, land use, unemployment, poverty, housing, urban renewal, transportation, and the local public sector.

ECON 181. Economics of Racism. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Spring only

Economic analysis of the origins and development of racism, focusing mainly on its impact in the U.S. Differing theoretical explanations surrounding racism will be compared and evaluated.

ECON 184. Women and the Economy. 3 Units
Term Typically Offered: Fall only

Investigation of the current economic status of women in the U.S., of past and present economic discrimination experienced by women in the labor market, of the historical reasons for that discrimination and of the means and methods of ending that discrimination.

ECON 186. Sports Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Applies the essential economic concepts and develops them with examples and applications from the sports industry. Covers basic economic concepts: economic principles, supply and demand, perfect competition, and monopoly behavior. It also applies these concepts to a variety of topics: the public finance of sports franchises, the costs/benefits of a sports franchise to a city, labor markets and labor relations, discrimination, and amateurism and college sports.

ECON 189. Economics at the Movies. 3 Units
Term Typically Offered: Fall only

Analysis of the use and treatment of economic theory and history in popular American films. Emphasis is placed on the topics of game theory, industrial organization, entrepreneurship, law and economics, labor economics, the stock market, and American economic history. The entertainment industry will also be examined from an economic perspective.

ECON 190. International Trade. 3 Units
Prerequisite(s): ECON 1A, ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Analysis of the causes and results of trade among nations. Introduction to modern trade theory is combined with examination of trade instruments and policy analysis.

ECON 192. International Finance. 3 Units
Prerequisite(s): ECON 1A, ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

Critical examination of the theories and practices of financing trade among nations. International financial and monetary theories focus on how the world and financial system works, given globalization and international economic integration.

ECON 193. Development Economics. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum "C" grade.
Term Typically Offered: Fall, Spring

An analysis of the factors involved in the growth of economies. The focus is on the application of development economics and growth theory to the process of economic growth in developing countries. Particular attention is given to variables that explain growth, namely, technological progress, population growth, saving, trade, human capital and education, and the role of institutions.

ECON 195. Economic Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised economic-related work experience, research, or teaching assistance to provide an opportunity for the student to apply principles and theories learned in the classroom to the "real world." Credit/No Credit

ECON 196P. Economics of Personal Finance. 3 Units
Prerequisite(s): ECON 1A or ECON 1B
Term Typically Offered: Fall, Spring

Applies economic tools and models to evaluate personal financial decisions including investment in higher education, housing, retirement accounts, and traditional and emerging financial markets with a focus on risk and return. Assessment of personal decision-making including career choice, marriage, divorce, and retirement timing to maximize utility and smooth consumption throughout the lifecycle.
ECON 196R. Economic Programming and Data Analysis. 3 Units
Prerequisite(s): Econ 1A, Econ 1B, and Econ 140
Term Typically Offered: Fall, Spring
Inquiry into the basic principles of data analysis and computer programming. The primary focus is on data management and the associated visual optimization and statistical inference in economics using programming languages, such as R and Python. More advanced topics include the use of cross validation, algorithms, and theoretical modeling for data analysis and problem-solving.

ECON 196S. Economics of Financial Markets. 3 Units
Prerequisite(s): STAT 1, Econ 1A, Econ 100B
Term Typically Offered: Fall, Spring
Study and critical analysis of economic theories of financial markets to include rational expectations, the efficient markets hypothesis, roles of time, uncertainty and information in economic transactions, risk aversion in the context of utility maximization and portfolio choice theory, the Capital Asset Pricing Model and multi-factor asset pricing models, an introduction to behavioral finance, and an examination of financial instability and distributional effects of increasing financialization. Includes rigorous development of relevant theories and study of published empirical literature.

ECON 198. Tutoring in Economics. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised tutorials at educational institutions including Sacramento State where and when appropriate arrangements can be made. Prior approval for tutoring must be obtained from the Economics Department. Emphasis is on the development of effectiveness in the teaching of economics.
Credit/No Credit

ECON 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Admission requires approval of the faculty sponsor and the Department Chair.
Credit/No Credit

ECON 200A. Advanced Macroeconomic Theory. 3 Units
Prerequisite(s): Econ 141 and Econ 200M.
Term Typically Offered: Fall, Spring
Theories of the determinants of aggregate income, employment and prices. May be taken independently of Econ 200B.

ECON 200B. Advanced Microeconomic Theory. 3 Units
Prerequisite(s): Econ 200M.
Term Typically Offered: Fall, Spring
Theories of the consumer, producer, and market structure. May be taken independently of Econ 200A.

ECON 200C. Advanced Applied Economics. 3 Units
Prerequisite(s): Econ 200A, Econ 200B, and Econ 241.
Term Typically Offered: Fall, Spring
Applies empirical analysis to topics in microeconomics and macroeconomics. Topics may include stationarity, vector autoregression, vector error correction models, calibration, fixed effects, instrumental variables, multinomial logit, and duration models. Students implement these models using econometric software. Students will write an empirical paper intended to become a prospectus for the master's thesis.

ECON 200M. Mathematics for Economists. 3 Units
Prerequisite(s): Econ 100A, Econ 100B, Math 26A.
Term Typically Offered: Fall, Spring
Equips students with the mathematical techniques necessary for the study of economics and econometrics at the graduate level. Covers linear algebra, derivatives, comparative static analysis, optimization, integrals, and differential equations, with specific applications from economic and econometric theory.

ECON 204. Business Economics. 3 Units
Term Typically Offered: Fall, Spring
Intensive one-semester course covering both macroeconomics and microeconomics. Emphasis is on economic analysis and policy. Designed for graduate students who have not taken Econ 1A and Econ 1B or their equivalents.

ECON 213. U.S. Economic Development in Historical Perspective. 3 Units
Prerequisite(s): Admission to MA program in Economics.
Term Typically Offered: Fall, Spring
Introduction and analysis of American economic development from a historical perspective, focusing on the trajectory of American economic development from recent advances in theoretical and empirical economics literature. Cover topics on long-term economic growth, technological change, business cycles and fluctuations, financial markets, labor markets, and economic impacts of social change.

ECON 230. Public Finance. 3 Units
Prerequisite(s): Econ 200B.
Term Typically Offered: Fall, Spring
An analysis of the allocation and distribution effects of government expenditures and taxation.
ECON 238. Monetary and Fiscal Policy. 3 Units
Prerequisite(s): ECON 200A.
Term Typically Offered: Fall, Spring
Analyzes the policies of central bank and fiscal authorities as they relate to full employment and stability of the national economy.

ECON 241. Applied Econometric Analysis. 3 Units
Prerequisite(s): ECON 141
Corequisite(s): ECON 200M
Term Typically Offered: Fall only
Applied econometric analysis emphasizes the use of econometric techniques in actual economic research settings and expressing economic theory in the form of econometric models, data collection, estimation, and interpretation of results. Students will develop an understanding of the econometric tools used to analyze empirical economic questions by working individually on a research project developed in consultation with the instructor.

ECON 251. Urban Problems, Economics and Public Policy. 3 Units
Term Typically Offered: Fall, Spring
Historical development, economics and possible policy solutions of the most pressing problems facing central cities and urban areas in the U.S. are presented. Problems discussed include poverty, crime, urban abandonment/suburban sprawl, edge cities, deteriorating infrastructures, and fiscal stress. Cross Listed: PPA 251; only one may be counted for credit.

ECON 260. Industrial Organization and Performance. 3 Units
Prerequisite(s): Classified graduate status in Economics or instructor permission.
Term Typically Offered: Fall, Spring
A modern analysis of industry structure, conduct, and performance. Emphasis is placed on the use of game theory to address firm behavior, including price and output decisions, entry and exit, horizontal mergers, technological change, and marketing issues.

ECON 263. Food Economics. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring
Introduction to advanced economic theory and econometric methods applied to the economics of food with emphasis on food consumption and the complexity of individual food choices. Utilizing cost-benefit analyses and concepts like constrained utility maximization, household production, opportunity costs of time, and information search, implications for a global food system will be derived. We will apply learned concepts to health and environmental concerns by discussing the recent applied economics and policy evaluation literature.

ECON 265. Cost Benefit Analysis. 3 Units
Term Typically Offered: Fall, Spring
Examination of the theories, foundations, and philosophies of economic welfare. Specifically, the basic techniques of cost-benefit analysis will be presented and applied to various policy issues.

ECON 290. International Trade. 3 Units
Prerequisite(s): Classified graduate status in Economics or instructor permission.
Term Typically Offered: Fall, Spring
Analysis of modern trade theories, their empirical relevance, and the role of multinational firms in the evolution of international trade patterns. Discussion focuses on theoretical and empirical evaluation of trade policy instruments. Various trade agreements are also discussed in the context of economic integration and globalization. Attention is also given to foreign direct investment as a vehicle of globalization and the challenges it poses to both multinational firms and host countries.

ECON 295. Economic Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised work experience or research on economic topics in government, financial, business, charitable or other kinds of institutions to provide an opportunity for the student to apply principles and theories learned in the classroom to the "real world." Partial supervision may be supplied by persons in the institution under study. Credit/No Credit

ECON 298. Tutoring In Economics. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised tutorials at educational institutions including Sacramento State where and when appropriate arrangements can be made. Prior approval for tutoring must be obtained from the Economics Department. Emphasis is on the development of effectiveness in the teaching of economics. Credit/No Credit

ECON 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Admission requires approval of the faculty sponsor and the Department Chair. Credit/No Credit

ECON 500. Master's Thesis. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring
Completion of a thesis approved for the Master's degree. Should be taken in final semester prior to the completion of all requirements for the degree.

Ed.D. in Educational Leadership (EDD)

EDD 600. Transformational Leadership. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring
Designed to engage students in understanding, implementing, and evaluating strategic leadership practices based on various theories, models, and approaches for achieving organizational transformation. Students will become skilled facilitators of the organizational transformation process by initiating, implementing, sustaining, and evaluating transformation/change efforts. Students will build a solid foundation through the integration of theory and practice in order to implement a planned change process in their home institution.
EDD 601. Organizational Leadership. 3 Units
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program and instructor permission.
**Term Typically Offered:** Fall, Spring

Builds and expands on candidates’ knowledge of systems thinking, personal and organizational behaviors, and leadership approaches to the change process. Candidates will demonstrate ethical thinking and action in organizational settings by re-conceptualizing leadership roles and organizational structures. In coursework and related fieldwork components students will apply concepts and theories to improving their respective educational institutions. Among the interactive pedagogies used are: case studies, experiential exercises, dialogue and group activities.

EDD 602. Policy and Practice for Educational Leaders I. 3 Units
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program and instructor permission.
**Term Typically Offered:** Fall, Spring

Develops in students the skills for informed analysis of educational policy in order to positively influence the educational policy in the K-12 or community college setting. In addition to studying the historical perspectives pertaining to educational policy, practice, and reform, students will investigate the mission of public education. Students will also study governance and inter-governmental relations through contemporary policy development with particular reference to current law, local board policy, shared governance, and working with a variety of constituencies.

EDD 603. Policy and Practice for Educational Leaders II. 3 Units
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program and instructor permission.
**Term Typically Offered:** Fall, Spring

Designed to engage students in critical analyses of policy at the local, state, national, and international levels. Specific California and federal policy environment structures and processes will be examined. Students will learn about how public policy is generated, potential consequences, ethical dilemmas, social justice, and equity issues.

EDD 604. Introduction to Educational Research. 3 Units
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program.
**Term Typically Offered:** Fall only

This course introduces students educational research design, methodologies, findings, and audience. Students will learn the overall design uses of education research, including problem statements, research questions, hypotheses, and conceptual frameworks. They will study qualitative, quantitative, and mixed-methods research designs in preparation for conducting independent research. Students will analyze how educational researchers and leaders use qualitative and quantitative data in policy and practice, enabling them to understand and critique different research tools across educational areas and issues.

EDD 605. Qualitative Research Methods. 3 Units
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program.
**Term Typically Offered:** Spring only

This course is designed to provide doctoral students with instruction in qualitative research approaches as applied to questions of educational leadership and policy. The course will emphasize individual and group interviewing as techniques for qualitative study data collection as well as coding and analysis of qualitative data. This course is particularly useful for doctoral students who plan to conduct a qualitative or mixed method dissertation related to an educational leadership and/or policy topic.

EDD 606. Quantitative Research Methods. 3 Units
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program.
**Term Typically Offered:** Fall only

This course will introduce educational leaders to concepts in quantitative research in preparation for conducting independent research. This course will enable students to critically understand, critique, and develop quantitative research methodology and apply it appropriately to various educational issues.

EDD 607. Community and Communication in Educational Leadership. 3 Units
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program and instructor permission.
**Term Typically Offered:** Fall, Spring

Presents theories and frameworks concerning organizational, interpersonal, and cross-cultural communication in educational and community contexts. Includes developing written and verbal skills for specific contexts, including strategic planning, evaluation, presentations, formal and informal texts, technology, crisis management, and public relations. Through research and practical application, enhances communication skills needed for creating inclusive systems and positive results for all stakeholders.

EDD 608. Diversity and Equity in Complex Organizations. 3 Units
**Prerequisite(s):** Admission into the Ed.D. in Educational Leadership Program and instructor permission.
**Term Typically Offered:** Fall, Spring

Designed to engage students in self introspection of awareness and advocacy in applying theoretical frameworks and research to promote equitable, excellence in schooling. Students will demonstrate the ability to develop cross-cultural relationships across multiple constituents for the purpose of improving students performance and promoting social justice. Students will develop the capacity to be courageous change agents in assuring academic excellence for all students.
EDD 609. Human Resource Management for Educational Leaders. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.

Term Typically Offered: Fall, Spring

Examines how to manage human resources effectively in the dynamic legal, social, and economic environment currently impacting educational institutions. Among the topics included are: formulation and implementation of human resource strategy, job analysis, methods of recruitment and selection, techniques for training and development, performance appraisal, compensation and benefits, and the evaluation of the effectiveness of human resource management frameworks and practices. Class participants will be expected to demonstrate understanding of Human Resource Management (HRM) competencies through assignments, exercises and case analyses.

EDD 610. Curriculum and Instruction Issues for Educational Leaders. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.

Term Typically Offered: Fall, Spring

Presents curriculum and instruction from a leadership perspective within the contexts of K-12 schools and community colleges. Students examine contemporary issues in school curriculum, including policy initiatives and reform efforts affecting curricular decision-making. Prepares students to analyze and design appropriate strategies for implementing and evaluating district and school curricula and to investigate the implications of curricula for educational programming. Students also learn specific foundations and procedures for professional development that have well-documented effects on student achievement.

EDD 611. Legal Issues for Educational Leaders. 2 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.

Term Typically Offered: Fall, Spring

Examines key legal issues that govern daily and long-range decisions of educational leaders. Focuses on understanding California and federal codes, case law, policies, and significant precedent and will emphasize analysis of key legal concepts and application of law to major areas including finance, personnel, risk management, curriculum, student services, teacher rights, torts, students rights, and access. Examines trends in law and the initiation and influence of educational law to positively influence educational institutions.

EDD 612. Student Services in Education. 2 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.

Term Typically Offered: Fall, Spring

Provides a comprehensive insight into the student services. It addresses both practical and theoretical perspectives intended to build a sense of vision and passion to transform the profession of student affairs and leadership. In particular, examines four distinct arenas: 1) historical and philosophical foundations of student affairs and leadership 2) management and organizational issues, 3) essential skills and professional development in building an equitable organization, and 4) the synthesis of practice and theory.

EDD 613. Finance and Budget for Educational Leaders. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.

Term Typically Offered: Fall, Spring

Analyzes two related topics with respect to public educational institutions: funding and internal budget management. Provides a state and national overview of the economics and finance of K-12 and higher education, including private and public benefits of education, methods of financing public education, and contemporary policy issues regarding school and college finances. Focuses on how educational leaders can most effectively manage resources to further the vision, goals, and philosophy of the organization.

EDD 614. Issues in Educational Leadership: Synthesis and Application. 2 - 3 Units

Prerequisite(s): Successful completion of all previous courses in the EDD program (EDD 600-EDD 613) with a grade of B or higher and no incompletes.

Term Typically Offered: Spring only

This seminar integrates the principal three themes of the program: leadership, policy, methods, and equity. Students will take a qualifying exam to demonstrate their mastery of key program skills, concepts, and theories and their readiness to undertake dissertation research.

EDD 615. Dissertation Proposal Seminar. 6 Units

Prerequisite(s): Passed Ed.D. Qualifying Examination and instructor permission.

Term Typically Offered: Fall, Spring

Provides faculty and peer guidance in preparation of material to develop the dissertation proposal. Students will be guided in the clarification of dissertation topic, familiarization with relevant literature, and the development of a sound methodology. Students will learn how to critically analyze and provide constructive criticism to key research components proposed by others. At the end students are expected to complete the first three chapters of their dissertation in anticipation of their dissertation defense.

EDD 616. Dissertation I. 6 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.

Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.

Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit
EDD 616A. Dissertation I - Seminar. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Corequisite(s): EDD 616B.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program. This course provides a 3 unit seminar in support of the first phase of the dissertation.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit

EDD 616B. Dissertation I - Research and Writing. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Corequisite(s): EDD 616A.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program. This course provides a 3 unit seminar in support of the second phase of the dissertation.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit

EDD 617. Dissertation II. 6 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and completion of EDD 616 and instructor permission.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.

EDD 617A. Dissertation II - Seminar. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission. EDD 616A.
Corequisite(s): EDD 617B.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program. This course provides a 3 unit seminar in support of the second phase of the dissertation.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit

EDD 617B. Dissertation II - Research and Writing. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission. EDD 616B.
Corequisite(s): EDD 617A.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit

EDD 623. Educational Foundations. 3 Units
Term Typically Offered: Fall only

This course introduces major sociological theories, key education history and policy, current and reoccurring equity debates in education—concepts fundamental to educational leadership, policy, and doctoral research. It includes a survey of seminal theorists, social theory, and its application; key historical events, facts, policies, and decisions that influence and situate contemporary educational practice; and important equity debates, such as segregation and tracking, access and quality, public and private roles, testing and accountability, and others.

Education (ED)

ED 300B. Teaching Performance Assessment-Multiple Subject Literacy. 1 Unit
Term Typically Offered: Fall, Spring

Candidates in the Teacher Preparation Program must complete the Teaching Event for the Performance Assessment for California Teachers. The Teaching Event requires candidates to plan and teach an instructional sequence in their student teaching placement. They must also assess student learning during this lesson sequence and submit a videotape with material recorded during the lesson sequence. The Teaching Event is a summative assessment and one of several requirements that must be completed in order to receive a recommendation for a teaching credential.

Credit/No Credit

Education (EDUC)

EDUC 1. Education, Equity, & American Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

This introductory course provides an overview of the broad landscape of public education in the United States. The course includes three units: 1) Historical Moments in Education, 2) Contemporary Issues in Education, and 3) Social Justice Approaches in Education. Each unit introduces students to ways in which race, ethnicity, and intersectional identities have shaped students’ experiences in schools. The goal of the course is to acquaint students with historical practices and systems that inform present school conditions, and socially just reforms.
EDUC 10. Critical Thinking and the Educated Person. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Examines thinking process patterns and dispositions for self, children, parents and educators. Familiarizes students with critical thinking, provides a systematic approach to its process and components. Students will learn about problem solving, decision-making, logical and creative thinking. The study of critical thinking will be supplemented with readings, discussions, and written assignments. Implements critical thinking applications used both in student's academic and personal lives.

EDUC 10H. Critical Thinking and the Educated Person: Honors. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

This introductory course will examine the thinking process patterns and dispositions for self, children, parents and educators. The purpose of this course is to familiarize students with critical thinking, and to provide a systematic approach to its process and components. Students will learn about problem solving, decision-making, logical and creative thinking. The study of critical thinking will be supplemented with readings, discussions, and written assignments. The course will implement critical thinking applications used both in student's academic and personal lives.

EDUC 18. Mathematical Practices Across Cultures. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Introduction to diverse mathematical thought, action and practices across cultures. Mathematics will be seen from a diversity of contexts. Learners will consider how diverse contexts and traditions both reflect a culture's heritage and world view and influence the mathematics learned and used. Topics covered include: ethnomathematics, mathematical modeling, and cultural connections in relation to diverse forms of quantitative reasoning, problem solving, number systems, organization, perceptions of time and space as experienced by diverse traditions and peoples.

EDUC 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

EDUC 77. Career Vision Seminar. 1 Unit
Term Typically Offered: Fall, Spring

Through meetings with 10-15 peers, in this 1 unit seminar students will do the following: clarify core values, interests and strengths; identify and apply for a volunteer, internship or part-time entry-level position related to careers of interest to students; and create a publicly viewable online skills portfolio showcasing what students are learning in college and how that learning relates to the world of work.

EDUC 99. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects designed especially for lower division students capable of independent study. Focus is on issues and topics involving exceptional populations.

Note: may be repeated for up to 12 units of credit
Credit/No Credit

EDUC 100A. Educating Students with Disabilities in Inclusive Settings. 2 Units
Corequisite(s): EDUC 100B.
Term Typically Offered: Fall, Spring

This course provides an overview of current knowledge about individuals with disabilities within the context of inclusive educational and community-based settings, with substantial focus on the role of the educator in the education of students who have disabilities in diverse communities. Content includes historical factors, legislation, causes and characteristics, educational needs, educational strategies, including educational technologies, assessment, collaboration, and support services for individuals with disabilities ranging across mild, moderate, severe, and profound disability levels.

EDUC 100B. Educating Students with Disabilities in Inclusive Settings Lab. 1 Unit
Corequisite(s): EDUC 100A.
Term Typically Offered: Fall, Spring

Field-based 30-hour experience. Lab is a synthesis and application of EDUC 100A course content in educational settings for students birth to age 22 who receive special education services. Students will verify multiple experiences across the age-span and in inclusive educational settings, agencies, and community environments.

Credit/No Credit

EDUC 101A. Consultation Strategies for Educators of Students with Disabilities. 2 Units
Corequisite(s): EDUC 101B.
Term Typically Offered: Fall, Spring

Basic skills for effective collaboration and teaming are practiced through simulations, reflective case study analyses, and interviews with families, paraprofessionals, and related service providers. Cultural, socioeconomic and organizational implications are analyzed.

EDUC 101B. Consultation Strategies for Educators of Students with Disabilities - Lab. 1 Unit
Corequisite(s): EDUC 101A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDUC 101A) in the development of basic collaboration strategies for individuals with mild/moderate disabilities. Students are required to participate in class visitations, interviews, and other field assignments.

Credit/No Credit
EDUC 102. Foundations in Career and Technical Studies. 3 Units
Prerequisite(s): Students need to be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course will introduce students to Career & Technical Studies with a focus on college and career readiness by developing a foundation for careers as teachers, trainers, and facilitators in the public and private sector. Students will also explore brain based learning, historical and legislative developments in CTE and Adult Education, lesson plan development, as well as different teaching and learning strategies for participation in a 21st century workforce.

EDUC 103. Assessment and Instruction in Adult and Organizational Training. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Demonstrates how to develop performance criteria, continuously assess learner performance levels and evaluate student achievement. Students develop a standard-based course outline and prepare training modules and units of instruction of use for individual, small group and whole class delivery systems.

EDUC 104. Teaching Issues of Diversity in Schools and Workplace. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Demonstrates how to encourage excellence among and design instruction from different gender, ethnic, sexual orientation, language, and ability groups. This course aims to include research and discussion on education and employment law in regards to sensitivity towards cultural heritages, principles of language acquisition, bias free instructional/workplace materials and inclusive practices.

EDUC 105. Advanced Instructional Design, Program Evaluation and Leadership in Career Technical Studies. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Explores aspects of CTS program design and management. Investigates aspects of organizing a program following guidelines detailed in the California Career Technical framework. Considers methods of program evaluation following the model set forth by the Western Association of Schools and Colleges (WASC). Examines leadership qualities and values, analyzing potential benefits and liabilities of various leadership styles.

EDUC 106. Individual Growth Through the Examination of Personal Assets, Philosophies and Life Experiences. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course is designed as a primer for EDUC 107 by introducing concepts, exercises, and research that focus on the personal elements associated with leadership and self-growth. Participants will develop greater self-awareness and understanding of key personal assets/issues that impact leadership development and enhance organizational communication and growth. The impact of life experiences and personal philosophies will be discussed as they relate to effective leadership development. An inter-disciplinary approach to personal growth and development will be emphasized.

EDUC 107. Designing Solutions. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Offers student participation in innovative solutions to organization, team, and individual needs. Using design thinking’s iterative process, students will be able to identify needs and develop potential solutions to meet those needs to improve performance.

EDUC 109. Career Guidance in Career Technical Studies. 1 Unit
Prerequisite(s): Application for Review of Work Experience. Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Examines the professional history of students and assists them in gathering documentation to support their Experimental Learning Portfolio for submission to the CSU Reviewing Committee. Assists students in identifying goals for professional accomplishment. Credit/No Credit

EDUC 110. Current Issues in Workforce Development. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Course provides an in-depth investigation of various challenges and issues facing workforce development professionals in the public and private sectors. Students will utilize Design Thinking tools in order to identify and study critical workforce development issues, and develop solutions that benefit the individual and organization.

EDUC 111. Education for Career Technical Students with Special Needs. 3 Units
Term Typically Offered: Fall, Spring

Introduces concepts and practices of inclusion of special needs students as provided for under federal legislation and case law. Methods of adapting instruction and devising positive behavioral supports for students of diverse abilities are studied. Methods of assessing the progress of students with diverse abilities are examined.

EDUC 112. Organizational Policies, Finance and Legislation. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course aims to provide students with information which will enhance their understanding of organizational finance, legislation and policies. Critical to this course is the understanding that Career and Technical Education (CTE) organizations rely on local, state and national policy, finance and legislation to function.

EDUC 113. Implement Digital Technologies with Ethical Knowledge. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Develop professional competencies in digital and emerging technologies, defined by the National Association of Colleges and Employers (NACE) taskforce. Cultivate a keen awareness about digital technologies when blending fundamental ethical principles and foresight to make quality decisions. Identify and implement effective pathways to learn and ethically adapt emerging technologies strategically. Solve problems effectively to attain sustainable goals.
EDUC 114. Theories and Practices of Multiculturalism in Schools and Organizations. 3 Units
Prerequisite(s): Students must be admitted to the BSCTES program.
Term Typically Offered: Fall, Spring, Summer

An introduction to the study of multiculturalism and its impact on schools and the workplace. The primary objective is to provide a learning environment which is conducive to the development of knowledge, understanding, and skills consistent with multicultural training and pluralistic philosophies. Students will examine the work of adult education theorists and business scholars that impact schools and the workforce. The course examines social institutions, beliefs, customs, and social trends affecting adult education, organizations, and the workforce.

EDUC 115. Improvement Science for Organizational Effectiveness. 3 Units
Prerequisite(s): Student must be admitted to the BSCTES program.
Term Typically Offered: Fall, Spring, Summer

Course explores improvement science methods for disciplined inquiry to solve specific problems of practice. Using assessment tools, strategic planning, systems thinking and organizational development, this course focuses on creating innovative solutions to business and marketplace challenges.

EDUC 116. Methods of Inquiry in Career Technical Studies. 3 Units
Prerequisite(s): Student must be admitted to the BSCTES program.
Term Typically Offered: Fall, Spring

This course provides students with a broad overview of methods and models of academic research. Students will evaluate sources and prioritize those with the highest quality according to key identifying factors. Students will gain understanding of how research models are matched to specific issues and problems within the domain of Career Technical Studies, and relate these to their own individual growth and career development based upon their particular interests, goals and strengths.

EDUC 117. Field Experience in Career Technical Education. 1 - 6 Units
Prerequisite(s): Student must be admitted to the BSCTES program.
Term Typically Offered: Fall, Spring

Individualized field experience designed collaboratively by the student and instructor.
Note: Department consent required

Credit/No Credit

EDUC 118. Integrative Perspectives in Leadership. 3 Units
Prerequisite(s): Students must be admitted to BSCTES program.
Term Typically Offered: Fall, Spring, Summer

This course explores methods of integrative thinking, holistic leadership practices, cultural perspectives, and mindful communication techniques for current and future leaders. This course defines leadership styles and gives students the opportunity to apply integrative thinking models across multiple disciplines.

EDUC 120. Literature For Children. 3 Units
Prerequisite(s): Must have Junior or higher standing to enroll in this course
Term Typically Offered: Fall, Spring

Historical and modern children’s literature; standards of selection and acquaintance with the leading authors and illustrators; procedures and practices in methodology.

EDUC 121. Multicultural Children’s Literature. 3 Units
Prerequisite(s): GWAR certification before Fall ’09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Survey of historical and modern multicultural children’s literature examining standards of selection and acquaintance with the leading authors, illustrators and book awards; procedures and practice in methodology. Focus on children’s literature which represents the diversity in America and fosters an understanding of the cultural values, identity, and heritage of those populations.

EDUC 124A. Tutoring Children in Mathematics. 2 Units
Corequisite(s): EDUC 124B.
Term Typically Offered: Fall, Spring

Orientation to concept and practice of tutoring basic mathematics skills including developing conceptual understanding and the ability to scaffold instruction of addition, subtraction, multiplication and division of whole numbers, fractions, and decimals. After completing on-campus training, students are placed in nearby school districts. May be taken by all undergraduate students and is strongly recommended for students considering careers in education, criminal justice, psychology, and social work. It may also be used as an elective in the Blended Teacher Education Program.
Note: May be taken twice for credit.

Credit/No Credit

EDUC 124B. Tutoring Children in Mathematics: Practicum. 1 Unit
Corequisite(s): EDUC 124A.
Term Typically Offered: Fall, Spring

Practicum of tutoring basic mathematics skills and scaffolding instruction of addition, subtraction, multiplication and division of whole numbers, fractions, and decimals. After completing on-campus training, students are placed in nearby school districts. May be taken by all undergraduate students and is strongly recommended for students considering careers in education, criminal justice, psychology, and social work. It may also be used as an elective in the Blended Teacher Education Program.
Note: May be taken twice for credit.

Credit/No Credit

EDUC 125A. Tutoring Children in Reading. 2 Units
Corequisite(s): EDUC 125B.
Term Typically Offered: Fall, Spring

Orientation to concept and practice of tutoring basic reading skills including sight word recognition, word analysis skills, oral fluency, and comprehension. After completing on-campus training, students are placed in nearby school districts.
Note: Strongly recommended for students considering careers in education, criminal justice, psychology and social work. May be repeated once for credit. May also be used as an elective in the Blended Teacher Education Program.

Credit/No Credit
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Corequisite(s)</th>
<th>Prerequisite(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 125B</td>
<td>Tutoring Children in Reading Practicum.</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
<td>Field-based course provides a synthesis and application of course content learned in EDUC 125B. Students are placed in a primary level setting for at-risk students who read approximately two grade levels below their peers. The twice-weekly practicum focuses on comprehension questioning strategies, learning styles and differences, multicultural and ESL strategies, Reader's theater and poetry, and motivating students to achieve greater academic success.</td>
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<tr>
<td>EDUC 126</td>
<td>Assisting the Elementary Classroom Teacher</td>
<td>3 Units</td>
<td>Fall, Spring</td>
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<td>Directly connected to hands-on classroom experiences. Students will be intensively trained in workshops, and will work as teacher assistants in public schools (4 hours per week). Students will learn strategies for working with diverse groups of students at all grade levels; keep weekly tutoring logs; and write a case study on a student and present their findings to the class. Students will reflect on their own growth and development.</td>
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<tr>
<td>EDUC 127A</td>
<td>Field Experience in After School STEM Programs.</td>
<td>2 Units</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
<td>Orientation to high quality Science, Technology, Engineering, and Mathematics (STEM) instruction. On-campus training includes skills to develop conceptual understanding and ability to scaffold instruction for elementary and middle school aged students in STEM after school programs. After completing on-campus training, students assist with instruction in nearby school STEM programs.</td>
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<tr>
<td>EDUC 127B</td>
<td>Field Experience in After School STEM Programs: Practicum.</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td></td>
<td></td>
<td>This course is designed to connect students with local public school partners in after school programs that support inquiry based STEM activities with K-8 children. After completing on-campus training, students then complete the practicum.</td>
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<tr>
<td>EDUC 128</td>
<td>Education and Communication in Korean Society</td>
<td>3 Units</td>
<td>Fall, Spring</td>
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<td>This course is designed to explore various dimensions of the education and the communication in Korea. It will focus on (a) the Korean educational philosophy, system, and practices of all levels - preschool to higher education; (b) the Korean language in a variety of communicative contexts; and (c) how education and communication shape and interface. The similarities and differences in education and communication between South Korea and the United States will be also investigated.</td>
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<tr>
<td>EDUC 129</td>
<td>Teaching Science in Outdoor Settings.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
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<td>This course provides students with experiential learning in an outdoor setting with the aim of developing and implementing outdoor education activities for children grades 4-7. By engaging in the practices of mindfulness and ecotherapy, students will gain awareness and appreciation for the outdoors. Students will also gain knowledge on how to implement science-focused activities that incorporate the Next Generation Science Standards and California's Environmental Principles and Concepts while incorporating Social Emotional Learning Principles and Standards.</td>
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<tr>
<td>EDUC 130A</td>
<td>Typical &amp; Atypical Developmental Characteristics and Outcomes for Young Children with Disabilities.</td>
<td>2 Units</td>
<td>Fall, Spring</td>
<td></td>
<td>CHDV 30 or approved equivalent.</td>
<td>Examination of disabilities and risk factors and their influence on developmental competencies and outcomes for infants, toddlers, and young children. Content will include typical developmental patterns of young children, atypical development due to prenatal, perinatal and early childhood developmental risk factors including low incidence disabilities, and an introduction to interventions in a range of community settings to address the unique needs of these children and their families. Lecture.</td>
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<tr>
<td>EDUC 130B</td>
<td>Typical &amp; Atypical Developmental Characteristics and Outcomes for Young Children with Disabilities Lab.</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td></td>
<td>CHDV 30 or approved equivalent.</td>
<td>Field-based practice lab (30 hours). Lab will be a synthesis and application of lecture/discussion course content in home based, center based, and community settings serving infants, toddlers, and young children with disabilities and their families.</td>
</tr>
</tbody>
</table>
EDUC 131A. Introduction to Family Centered Service Delivery in Early Childhood Special Education. 2 Units
Prerequisite(s): EDUC 130A and EDUC 130B or its equivalent.
Corequisite(s): EDUC 131B.
Term Typically Offered: Fall, Spring

Designed to enable participants to gain knowledge and develop skills necessary to provide culturally responsive, family-centered approaches to assessment and intervention for infants and young children with disabilities. Focus will be on the historical, theoretical, and philosophical bases for family-centered service delivery, including an emphasis on understanding family systems and family life stages, respect for cultural diversity, the IFSP process, collaborative parent-professional relationships, parent advocacy, and transition planning. Lecture.

EDUC 131B. Introduction to Family Centered Service Delivery in Early Childhood Special Education Laboratory. 1 Unit
Prerequisite(s): EDUC 130A and EDUC 130B or its equivalent.
Corequisite(s): EDUC 131A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of lecture course content (EDUC 131A) in home-based, center-based and/or community settings serving infants and young children with disabilities and their families. Credit/No Credit

EDUC 155. Introduction to Counseling. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the profession of counseling, including differences between professional counseling and other professions, counseling theories, consultation skills and an introduction to basic counseling skills. Lecture three hours. Requirement for the Counseling minor, not included in 200-series 60 unit program for master’s degree.

EDUC 156. Power, Privilege and Self Identity in Counseling. 3 Units
Term Typically Offered: Fall, Spring

Focuses on understanding how one’s values, attitudes, belief systems impact perception of differences related to race, ethnicity, culture, etc. Experiential activities promote self awareness while developing capacity in becoming a culturally responsive/skilled counselor. Historical processes that created inter and intra group constructs are explored. Required for the Counseling Minor, not included in 200-series 60 unit master’s degree.

EDUC 157. Child and Family Psychopathology. 3 Units
Prerequisite(s): Students minoring in counseling must take CHDV 30 or CHDV 35 or PSYC 2.
Term Typically Offered: Fall, Spring

Examines the etiology of development and mental health issues in children, youth and caregivers, including genetic and socio-cultural factors. The classification and treatment of abnormal behavior within family contexts will also be explored. Recommended for human services majors such as child development, education, psychology, counseling, social work and criminal justice.

EDUC 158. Latinas/os/x in Education. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

This course provides an overview of Latinas/os/x educational experiences within the United States. Students will analyze how historical, contemporary, social, political, and economic forces have shaped Latinas/os/x educational access and attainment. The course will examine how identity markers such as race, ethnicity, language, immigration status, gender, and sexuality inform Latinas/os/x educational pathways. While the course centers on Latinas/os/x, students will compare and contrast Latinas/os/x educational experiences with other Students of Color.

EDUC 160. Urban Education. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X, or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

Designed to enhance students’ knowledge of urban schooling, especially related to dynamics of race, class, and culture. Along with a Service Learning component in urban schools, provides analysis of the following: historical, socioeconomic, and political factors influencing urban education; the distribution of opportunity in cities and their schools; and effective instructional organizational practices that close the achievement gap, including the development of positive school cultures and the use of community services and resources.

EDUC 165. Power, Privilege and Self Identity in Counseling. 3 Units
Term Typically Offered: Fall, Spring

Focuses on understanding how one’s values, attitudes, belief systems impact perception of differences related to race, ethnicity, culture, etc. Experiential activities promote self awareness while developing capacity in becoming a culturally responsive/skilled counselor. Historical processes that created inter and intra group constructs are explored. Required for the Counseling Minor, not included in 200-series 60 unit master’s degree.

EDUC 160. Urban Education. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X, or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

This course provides an overview of Latinas/os/x educational experiences within the United States. Students will analyze how historical, contemporary, social, political, and economic forces have shaped Latinas/os/x educational access and attainment. The course will examine how identity markers such as race, ethnicity, language, immigration status, gender, and sexuality inform Latinas/os/x educational pathways. While the course centers on Latinas/os/x, students will compare and contrast Latinas/os/x educational experiences with other Students of Color.
EDUC 168. Foundational Issues for a Multicultural, Pluralistic Society, B. 3 Units
Prerequisite(s): Admission and enrollment in BMED multiple subject credential program; EDBM 117.
Corequisite(s): EDBM 402B.
Term Typically Offered: Fall, Spring

Critical examination of the socio-political relationship between California’s public schools and its major population subgroups (as defined by culture, gender, social class, language, race/ethnicity, and ability). Candidates critically reflect on the philosophy and practices of schooling in relation to students’ culture, family and community; analyze institutional and instructional practices for educational equity; and develop alternative instructional activities based on the principles of multicultural education and English language learning in a democratic society. Lectures, discussions, small group work, simulations, field tasks.

EDUC 169. Cross-Cultural Bridges: A Humanist Approach to Education. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

This course is designed to expand students’ knowledge of how history informs present day dynamics of race, culture, and socioeconomic status in education. Students will examine how humanists in history navigated cultural differences. A critical discourse that centers on humanist pedagogy will be used to show how future educators, leaders, and students can evolve in their own identities to understand cultural differences and how they can create change.

EDUC 170. Introduction to Bilingual Education: Policies, Principles, Programs, and Practices. 3 Units
Term Typically Offered: Fall, Spring

Introductory study and exploration of important themes regarding the education of emergent bi/multilingual students in the context of race, language and power. Covers the history of bilingual education; relevant legal mandates and court rulings; first and second language acquisition; linguistic development; theory and practice of effective programs; and beginning methods, materials and strategies responsive to the students’ primary language and assessed levels of English proficiency. A fieldwork component involving the mentorship of an emergent bilingual student is required.

EDUC 171. Bilingualism in the Classroom. 3 Units
Term Typically Offered: Fall, Spring

Provides an overview of the language factors that impact first and second language acquisitions in the K-12 classrooms and will provide opportunities through which they will build a palette of strategies that can be utilized to enhance language development within the realms of listening, speaking, reading, writing, and thinking. A combination of theory and practice will provide the base as students read, discuss, listen to lectures, view videos, conduct in class and field-based tasks, and synthesize their thoughts in writing.

EDUC 172. Introduction to Hmong Literacy. 3 Units
Prerequisite(s): Fluent in Hmong
Term Typically Offered: Fall, Spring

This course covers fundamental literacy components of the Hmong language. It examines the historical development and maintenance of the Hmong oral and written language and related issues based on lectures, class discussions, group work, writing assignments, and a research paper. It fulfills one of the requirements for teaching credential students pursuing the Bilingual Cross Cultural Authorization (BCLAD).

EDUC 173. Hmong History and Culture. 3 Units
Term Typically Offered: Fall, Spring

This course covers history of the Hmong dated 5,000 years ago to the present. It examines Hmong history and culture as it evolves through living in various Asian countries and in the United States through lectures, class discussions, group work, writing assignments, and a research paper.

EDUC 175A. Pedagogy and Academic Language Skills in Spanish for Bilingual Educators (Multiple Subjects). 3 Units
Prerequisite(s): Spanish fluency/literacy required.
Term Typically Offered: Fall only

This course provides opportunities to improve Spanish language for academic and instructional purposes. Students will explore topics in bilingual/biliteracy development, research, and program models, language varieties in Spanish, issues of power and language, advocacy for bilingual students, and engagement with bilingual families, specifically for TK-8th grade dual language contexts. Students also will examine theoretical and pedagogical issues in bilingual education, learn to apply bilingual teaching and assessment methods, analyze TK-8th grade language use, and evaluate Spanish curricular materials.

EDUC 175B. Pedagogy and Academic Language Skills in Spanish for Bilingual Educators (Single Subject). 3 Units
Prerequisite(s): Spanish fluency/literacy required.
Term Typically Offered: Fall only

This course provides opportunities to improve Spanish language for academic and instructional purposes. Students will explore topics in bilingual/biliteracy development, research, and program models, language varieties in Spanish, issues of power and language, advocacy for bilingual students, and engagement with bilingual families, specifically for secondary bilingual contexts. Students also will examine theoretical and pedagogical issues in bilingual education, learn to apply bilingual teaching and assessment methods, analyze 7th-12th grade language use, and evaluate Spanish curricular materials. Includes field component.

EDUC 190A. Becoming an Educator I. 2 Units
Prerequisite(s): All of the following: CHDV 30 or CHDV 35; and CHDV 35F, or equivalents.
Term Typically Offered: Fall, Spring

This is the first in a 2-course series on education as an academic area and profession, designed for students enrolled in teaching credential courses prior to bachelor’s completion. Examines personal and academic attributes and achievements necessary for becoming an educator in the general or special education context. This course focuses on fostering personal attributes and fulfilling requirements for entering the profession. Students will complete academic and biographical readings and 30 hours of elementary (TK-8th) classroom observation. Credit/No Credit
EDUC 190B. Becoming an Educator II. 1 Unit
Prerequisite(s): EDUC 190A.
Term Typically Offered: Spring only

This is the second in a 2-course series on education as an academic area and profession, designed for students enrolled in teaching credential courses prior to bachelor’s completion. Examines personal and academic attributes and achievements necessary for becoming an educator in the general or special education context. This course focuses on gaining experience in the diverse classroom setting and engaging in reflective teaching practices. Students will complete biographical readings and at least 20 hours of elementary (TK-8th) classroom observation.
Credit/No Credit

EDUC 194. Cooperative Education Experience. 3 Units
Prerequisite(s): Approval of Department Chair.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student’s major field of study and academic credit. Students receive employment in school districts, state and community agencies, companies, and other appropriate settings. Requires attendance at weekly meetings, preparation of application packet, completion of field study assignment and a written final report.
Note: Units may not be used to meet course work requirements.
Credit/No Credit

EDUC 196J. Teaching Science in Outdoor Settings. 3 Units
Term Typically Offered: Spring only

This course provides students with experiential learning in an outdoor setting with the aim of developing and implementing outdoor education activities for children grades 4-7. By engaging in the practices of mindfulness and ecotherapy, students will gain awareness and appreciation for the outdoors. Students will also gain knowledge on how to implement science-focused activities that incorporate the Next Generation Science Standards and California’s Environmental Principles and Concepts while incorporating Social Emotional Learning Principles and Standards.
Note: Students will be required to attend the field site during scheduled class meeting times and complete fieldwork clearance paperwork.
Credit/No Credit

EDUC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects designed especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and Department Chair.
Credit/No Credit

Education - Bilingual/Multicultural (EDBM)

EDBM 128. Foundations for Multicultural Secondary Education, B. 3 Units
Prerequisite(s): Admission to Single Subject Credential Program; Successful completion of EDBM 127.
Corequisite(s): EDBM 400B.
Term Typically Offered: Fall, Spring

Critical examination of the socio-political relationship between California’s public schools and its major population subgroups (as defined by culture, gender, social class, language, race/ethnicity, and ability). Candidates critically reflect on the philosophy and practices of schooling in relation to students’ culture, family and community; analyze institutional and instructional practices for educational equity, and develop alternative instructional activities based on the principles of multicultural education and English language learning in a democratic society. Lectures, discussions, small group work, simulations, and field tasks.

EDBM 205. Education for a Democratic, Pluralistic Society. 3 Units
Term Typically Offered: Fall, Spring

Advanced study of social, cultural, historical, philosophical and psychological issues related to the teaching and learning of culturally and linguistically diverse students. In-depth consideration of the implications of theories and research related to the history of educational reform, the history and culture of the teaching profession, the nature of learning for linguistically and culturally diverse students, the relationship between schooling and democratic society, and the barriers to all of the above.

EDBM 220. Multicultural Curriculum, Advocacy, and Community. 3 Units
Term Typically Offered: Fall, Spring

This seminar is a philosophical and pedagogical exploration of the historic, legal and socciocultural foundations of American education with emphasis on issues of power, identity, representation, and change. It examines how history, political and economic agendas, and discrimination shape schooling access and curriculum practices; and, considers ways to transform education to strengthen student-family-community-school involvement. This course is applied in that it mandates that students develop an action research plan for implementing or strengthening student-family-community-school involvement in schools and/or community settings.

EDBM 228. The Academic and Social Value of Ethnic Studies. 3 Units
Term Typically Offered: Fall, Spring

Introduces Ethnic Studies history, research, policy, and classroom practice. The primary focus is on Ethnic Studies education in grades 9-12. Readings for this course include current research on the academic and social value of particular approaches to teaching Ethnic Studies; new and developing California school district policy; recent California laws and resolutions regarding the establishment of Ethnic Studies as a high school graduation requirement; and Memorandums of Decision from Federal Court cases related to Ethnic Studies.
EDBM 235. Research Seminar on Bilingualism and Language Varieties in Education. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Designed for graduate students who already have some preparation in the area of Bilingualism and language varieties as they relate to the schools. Uses a seminar format to explore the latest research in the areas of first and second language acquisition of bilinguals, acquisition of standard and nonstandard dialects, and related sociolinguistic issues. Special attention will be given to research about language varieties used in the U.S. (Black English, Chicano English, Chicano Spanish, Hawaiian English and so on.)

EDBM 245. Advocacy, Change and Community. 3 Units
Term Typically Offered: Fall, Spring

Focus on learning theories behind and the methods for creating social change. Development of skills needed to differentiate social problems from their symptoms, and to coalesce key community members and agencies toward effecting social change. Additional study of strategies needed to assess the success of change efforts, and how to learn from challenges.

EDBM 250. Education Research. 3 Units
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Provides support for students’ culminating projects/thesis.

EDBM 265. Thesis/Project Writing. 3 Units
Prerequisite(s): EDBM 250 or equivalent, advanced to candidacy.
Term Typically Offered: Fall, Spring

Seminar to focus on the process of completing the required culminating experience including refining the research problem, completing the literature review, finalizing and implementing the research design, and completing required university protocol (e.g., Human Subjects Review and format requirements).
Note: May be taken twice for credit.

EDBM 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects at graduate level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and Department Chair.
Credit/No Credit

EDBM 342. Fundamentals for the Secondary Multilingual, Multicultural Classroom. 2 Units
Prerequisite(s): Admission to Single Subject Credential Program.
Term Typically Offered: Fall, Spring

Introduces the relationship between elements of teaching, instructional organization, and classroom management to effectively teach in culturally and linguistically diverse secondary classrooms. Focus is grounded in a Social Reconstructionist approach. Emphasis includes students’ development as a teacher specific, teaching strategies for culturally and linguistically diverse students, curriculum development, and theories and practices for establishing and maintaining an effective learning environment in multicultural/multilingual classrooms. Provides an introduction to E-Portfolio development, integration of technology, and familiarization of content standards.

EDBM 401. Observation and Participation in Multilingual/Multicultural Schools. 2 Units
Prerequisite(s): EDBM 250, advanced to candidacy, and completion of the Thesis/Project Petition and Advisor Reservation Form and the approval by the Department's Graduate Coordinator one semester prior to registration of this course.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's Degree.
Note: May be taken twice for credit.

Education - Counselor Education (EDC)

EDC 205. Advanced Counseling Theory and Multicultural Systems Abroad. 3 Units
Prerequisite(s): EDC 216, EDC 280, EDC 210, EDUC 155, and EDUC 156
Term Typically Offered: Summer only

This course is designed to provide students with a foundation in the philosophy and practice of contemporary theories of counseling and psychotherapy. Course material is aimed at helping students develop basic skills necessary for effective counseling and communicating with clients. Students will engage in: (1) personal growth in counselor identity development, (2) counseling skills development utilizing multiple approaches, and (3) theory integration and multicultural systems. Students will be actively involved in their learning and invited to share knowledge.
Note: This course is a study abroad experience.
EDC 210. Advocacy, Social Justice, and Cultural Foundations in Counseling. 3 Units
Prerequisite(s): Classified and/or admitted student in MS Counseling program
Term Typically Offered: Fall only

Exploration of ethnic and cultural differences to develop or expand awareness, techniques, skills, theories, concepts, and to acquire information necessary to counsel effectively with clients of various cultural groups. Students examine their own attitudes, behaviors, perceptions, and biases, and are encouraged to develop their own multicultural approach to counseling.

EDC 212. Gender and Sexuality in Counseling. 3 Units
Term Typically Offered: Fall, Spring
An examination of various gender roles within society, including their impact on the individual, couple and family. An overview of information and methods for working in the field of human sexuality education and counseling. Addressing problems involving sexual disorders, sexually transmitted infection & HIV/AIDS. Preventing, assessing, reporting, and intervening in family violence. Obtaining and developing accurate information and awareness about current sources and methods to competently assist clients in their struggle toward a more meaningful and satisfying sense of self.

EDC 214. Dynamics of Human Development. 3 Units
Prerequisite(s): Classified or Admitted Student in MS Counseling program
Term Typically Offered: Spring only
Overview of theories and research pertaining to the dynamics of human development, including cultural, biological, social, and psychological factors. Particular emphasis will be placed on the relationship of these factors to the field of counseling. Lifespan coverage includes conception, pregnancy, birth, infancy-toddlerhood, early/middle childhood, adolescence, early/middle/late adulthood, as well as dying, death, and bereavement.

EDC 215. Foundations of Professional School Counseling. 3 Units
Term Typically Offered: Fall, Spring
Understanding the roles, responsibilities, and functions of a professional school counselor is necessary to student and counselor success alike. Topics on school counseling services, practices, basic concepts related to the organization and operation of school counseling programs and socio-cultural, economic, and other societal influences on the educational process in TK-12 settings will be explored.

EDC 216. Counseling Theory. 3 Units
Prerequisite(s): Classified, or Admitted Student, in MS Counseling program
Corequisite(s): EDC 280. Please sign up for the same section of 216 and 280 as they are paired by section.
Term Typically Offered: Fall only
Examination of ten counseling philosophies, with emphasis on knowledge and practice. Requires the refinement of one’s own counseling orientation. Designed to provide students with a foundation in the basic philosophy and practice of contemporary theories of counseling/psychotherapy. The requirements support three components of multiple measures of learning and outcomes: 1) personal growth, 2) counseling skills building utilizing multiple approaches, 3) professional development.

EDC 218. Assessment In Counseling. 3 Units
Prerequisite(s): Classified, or Admitted, Student in MS Counseling program
Term Typically Offered: Fall, Spring
Intended to acquaint the prospective counselor with an array of assessment instruments and appraisal techniques. Includes practical experience with tests as well as foundations of test development. Lecture three hours.

EDC 219. Group Processes in Counseling. 3 Units
Prerequisite(s): EDC 216 and EDC 280, classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
Group Processes in Counseling is a course that introduces students to group process and theory, including group counseling skills and facilitation. Participation in a group experience is required as well as a leading a group under supervision. The experience and material in this course are aimed at helping students develop group counseling skills necessary for effectively leading counseling and psychoeducational groups while integrating theory into practice.

EDC 220. The Spiritual Dimension in Counseling and Psychotherapy. 3 Units
Prerequisite(s): EDU 155, EDU 156, EDC 216, EDC 280; or instructor permission.
Term Typically Offered: Fall, Spring
Investigation into concerns and issues, modes, and methodologies surrounding exploration of the spiritual dimension in the counseling/therapy relationship. Experiential activities are included.

EDC 222. Clinical Stress Reduction. 3 Units
Term Typically Offered: Fall, Spring
Major concepts, theories, and approaches to effective stress reduction. Includes stress level assessment, planning and implementation of a stress reduction program. Practice of beneficial stress reduction techniques and application in clinical practice. Note: Open to unclassified students with instructor permission.

EDC 230. Law and Ethics for Marriage, Family, and Child Counseling. 3 Units
Prerequisite(s): EDU 155, EDU 156, EDC 216, EDC 280 or instructor permission.
Term Typically Offered: Fall, Spring
Legal and ethical considerations in the practice of marriage, family, and child counseling. Current laws, responsibilities, restrictions, rights and privileges, licensing regulations, and ethical standards of major professional groups. Child abuse assessment and reporting requirements. Organization, administration, and management of independent practice. Lecture three hours.
EDC 231. Diagnosis and Treatment Planning. 3 Units
Prerequisite(s): EDC 216, EDC 218, EDC 280; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
This graduate level course provides students with an overview of adult and child psychopathology presented as a manifestation of multiple biological, psychological, sociocultural and other factors. It offers an advanced discussion of psychopathology with an emphasis on biopsychosocial assessment, differential diagnosis, use of the Diagnostic and Statistical Manual of Mental Disorders, and development of treatment plans. Lecture three hours.

EDC 232. Family Violence. 3 Units
Prerequisite(s): EDC 212, EDC 230, EDC 234; or instructor permission.
Term Typically Offered: Fall, Spring
Violence in the family includes spouse abuse, child abuse, incest, and sexual abuse. Myths about these areas will be replaced by empirically-based facts. There will be an emphasis on effective treatment methods; research findings on family violence, including etiology and family patterns; overlap with alcohol and other drugs, and maintenance factors. Students will gain techniques and skills in interviewing, assessment, and counseling when violence is a presenting issue.

EDC 233. Substance Use and Addiction Counseling. 3 Units
Prerequisite(s): EDC 231, classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
Provides an overview of substance use disorders, addiction, and co-occurring disorders. Students will develop an understanding of Substance Use Disorders (SUD’s); the physiological, psychological, behavioral, and social consequences on the user and family members; to facilitate the development of addiction counseling competencies that are associated with positive treatment outcomes, and to increase the student’s level of confidence relative to providing substance use evaluation, education, and treatment services. Emphasis will be placed on developing and practicing substance use counseling skills.

EDC 234. Seminar: Marriage and Family Counseling. 3 Units
Prerequisite(s): EDC 216, EDC 280; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
Introduction to the basic concepts and principles of family therapy. Provides and lays the foundation on which all theories/schools of family therapy are based and covers the basic theories of family therapy. Issues include evaluation of families, diagnosis in a family context, interviewing strategies, redefining problems in a family systems context, and treatment principles. Lecture three hours.

EDC 236. Couples Counseling. 2 Units
Prerequisite(s): EDC 212; EDC 234.
Term Typically Offered: Fall, Spring
Focuses on applying major schools of couples and sex therapy to actual practice. Issues include evaluation of couples, interviewing strategies, power, diversity, ethical and legal considerations, treatment principles and practice, as well as outcome research in couples therapy. Lecture/discussion/practice.

EDC 238. Professional Issues in Marriage Couple and Family Counseling. 2 Units
Term Typically Offered: Fall, Spring
This course will provide MCFC students an advanced overview of current evidence-based practices, intervention techniques, and treatment strategies for diverse populations. This class will challenge students to conceptualize through a diverse therapeutic lens. Topics will include domestic violence, death and dying, substance use disorder, patients with HIV or AIDS, relational trauma, the foster care system, infidelity in marriage and couples counseling, caring for caregivers, family law, and practice/management considerations including HIPAA and third party reimbursement.

EDC 239. Foundations in Rehabilitation Counseling. 3 Units
Prerequisite(s): Classified student in the MS Counseling program
Term Typically Offered: Spring only
This foundation course is designed to introduce and orient students to the profession of rehabilitation counseling, the various setting in which services are performed, and federal laws that dictate delivery of rehabilitation services. Students will learn about the history and development of rehabilitation counseling and the current issues relevant to this specialization including historical and contemporary perspectives on disability, societal attitudes towards disability and its influence on individuals with disabilities.

EDC 240A. Medical Aspects of Disability. 3 Units
Prerequisite(s): Classified or Admitted Student in the MS Counseling program
Term Typically Offered: Fall, Spring
This course focuses on the medical aspects of various congenital, hereditary, and trauma-induced disabilities. The etiology, pathology, treatment, symptoms, prognosis, and limitations caused by various disabling medical conditions are covered. Implications of medical disabilities are explored inclusive of its relationship to vocational adjustment. Areas of exploration include motivation, self-concept, and personal and societal attitudes toward disability. This course will include a survey of psychosocial aspects of disability as it pertains to medical aspects of disability.

EDC 240B. Psychosocial Aspects of Disability. 3 Units
Prerequisite(s): Classified or Admitted Student in MS Counseling program
Term Typically Offered: Fall, Spring
The primary focus of this course will be on the psychosocial aspects of disability including the psychological genesis of and social implications affecting individuals with disabilities. Various psychological disabilities will be explored in concert with treatment considerations. This course builds on knowledge gained in the EDC 240A: Medical Aspects of Disability. The course will explore rehabilitation philosophy and processes from a holistic standpoint to enhance coping and skill development to aid in vocational adjustment.

EDC 241. Developmental Stages and Art Therapy Techniques. 3 Units
Prerequisite(s): EDUC 155 and EDUC 156.
Term Typically Offered: Fall, Spring
In-depth study of normal stages of development in art with special emphasis on the developmental stages as both diagnostic indicators and aids in devising art therapy treatment. Includes hands-on experience with a variety of art therapy techniques and discussion of their applicability to different client populations. Purchase of some basic art supplies is required. Lecture, discussion, three hours.
EDC 242. Play and Art in Therapy with Children. 3 Units
Prerequisite(s): EDC 216, EDC 280, classified student in the School Counseling Specialization. Other Counselor Education students may be permitted to enroll when space is available.
Term Typically Offered: Fall, Spring

Explores the ways children use fantasy, play, and art as means for communication, growth and healing. Emphasis is placed on clinical skills, therapeutic limit setting, counseling theory and developmentally appropriate interventions. Purchase of some basic art supplies is required.

EDC 244. Trauma and Crisis Counseling. 3 Units
Term Typically Offered: Fall, Spring

This course provides opportunities for both theory and skill development by examining crisis and trauma counseling, including crisis theory; multidisciplinary responses to crises, emergencies, or disasters; cognitive, affective, behavioral, and neurological effects associated with trauma; brief, intermediate and long-term approaches; assessment strategies for clients in crisis and principles of intervention for individuals with mental or emotional disorders during times of crisis, emergency, or disaster.

EDC 250. Education Research. 3 Units
Prerequisite(s): Graduate status
Term Typically Offered: Fall, Spring

EDC 250 will provide the study of qualitative and quantitative methods used in the development of reliable knowledge in the field of education. It includes identification and formulation of research problems, research designs, and the presentation of reports representative of different research strategies. Scholars will be immersed in counseling discourse and a wide range of writing assignments in various genres. It is anticipated that this course will facilitate skills important to the evaluation of educational and psychological programs.

EDC 252. Legal and Ethical Issues in Professional Counseling. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide students with basic knowledge and skills necessary to be legally and ethically competent in practice of counseling. Examines ethical and legal considerations pursuant to practice of counseling. Topics to be covered are ethics (CAMFT, AAMFT, ACA, ASCA, NCDA) related to counseling practice in private and public sectors, as well as laws regarding mandatory child and elder abuse assessment and reporting, confidentiality, privilege, liability, marriage, family, child and school ethics and law. Required for graduation with a degree in Counseling.

EDC 254. Counseling and Psychotropic Medicine. 3 Units
Prerequisite(s): EDC 231 and Classified or Admitted Student in the MS Counseling program
Term Typically Offered: Fall, Spring

Provides an introduction to psychopharmacology; the biological bases of behavior; basic classifications, indications, and contraindications of commonly prescribed psychopharmacological medications; and effective approaches to collaborating with clients, their families and other professionals so that appropriate referrals can be made for medication evaluations and so that the side effects of those medications can be identified. Meets the BBS licensure requirements for Professional Clinical Counselors and Marriage and Family Therapists.

EDC 260. Career Development. 3 Units
Prerequisite(s): Classified or Admitted Student in MS Counseling program
Term Typically Offered: Fall, Spring

Provides a basic introduction to career development and career counseling. Identification and assessment of issues common in career counseling settings are examined. Group and individual models of career development and counseling in schools, community agencies or private industry are also investigated and discussed. Lecture three hours.

EDC 261. Seminar in Counseling: Job Placement. 3 Units
Term Typically Offered: Fall, Spring

Analyzes and practice of job-seeking skills, employer information base, and job placement of the handicapped.

EDC 262. Career Counseling Process. 3 Units
Prerequisite(s): EDC 260; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

On-going learning of the processes needed to deliver career counseling services to a variety of clientele. Students will extend their theoretical knowledge base and will more clearly focus on the relationship between a person’s life and the process of career development. Elements to be studied in more depth include career development theory, assessment techniques and strategies, goal setting, decision making, and integration of multicultural aspects and strategies. A practical experience in administering and interpreting selected test instruments extensively used in career counseling will be included. Lecture three hours; practical experience one hour.

EDC 263. Advanced Case Conceptualization in Clinical Rehabilitation. 3 Units
Prerequisite(s): EDC 239 and Classified or Admitted Student in the MS Counseling program
Term Typically Offered: Fall, Spring

This course provides an in-depth review and study of the clinical rehabilitation processes and continuum of care. This course will address effective clinical rehabilitation counseling assessments, interventions, and documentation. Students will apply principles, models, and use documentation formats of biopsychosocial case conceptualization and treatment planning. This course will review strategies for interfacing with medical and allied health professionals, including interdisciplinary treatment teams culminating in a case management and clinical file addressing a holistic intervention for clients and consumers.

EDC 264. Seminar in Counseling: Career Systems Development. 3 Units
Prerequisite(s): EDC 260; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

Specific emphasis is at the implementation level, with students learning the necessary skills for implementing, maintaining, and stimulating career development in schools, community agencies or private industry. Lecture three hours.
EDC 266. Seminar in Counseling: Career Program Development. 3 Units
Prerequisite(s): EDC 260; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
Specific emphasis is at the program development level, with students learning the necessary components for developing a career counseling program in schools, community agencies, or private industry. Lecture three hours.

EDC 268. Career and Job Search. 3 Units
Prerequisite(s): EDC 260 or instructor permission.
Term Typically Offered: Fall, Spring
Work is undergoing change with the advent of new technologies, an increasingly diverse workforce, and corporate restructuring. These conditions have led to more frequent occupational shifts and the loss of previously secure jobs, self-reliance replacing loyalty in relations between employers and employees, and fragmented careers becoming more common as family responsibilities and work opportunities became increasingly interwoven. Examines traditional and emerging approaches for assisting clients in a changing and evolving job market.

EDC 270. Organization and Administration of School Counseling Programs. 3 Units
Term Typically Offered: Fall, Spring
Principles and practices necessary to plan, initiate, administer, and evaluate school counseling programs, including related laws. Lecture, discussion three hours.

EDC 272. Counseling Children and Youth. 3 Units
Prerequisite(s): EDC 216, EDC 280, classified student in Counselor Education Program. School specialization: EDC 242.
Corequisite(s): School Counseling Specialization: EDC 475.
Term Typically Offered: Fall, Spring
Provides students with a theoretical foundation and working knowledge of contemporary issues and interventions for children and youth. A variety of presenting problems and treatment strategies are explored.

EDC 274. Advocacy and Systemic Change in School Counseling. 3 Units
Prerequisite(s): EDC 216, EDC 280, EDC 270; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
This course provides an overview of consultation, leadership, and advocacy models with emphasis on their use and application in school settings. The effective counselor must be able to employ consultation, advocacy, and leadership skills in order to meet the needs of students. Methods for analyzing data to design intentional and developmental school counseling interventions will be explored.

EDC 280. Counseling Skills Lab. 2 Units
Prerequisite(s): Classified Student in MS Counseling program
Corequisite(s): EDC 216 is taken the same semester
Term Typically Offered: Fall only
Supervised practice in acquiring and developing counseling micro-skills including the basic styles of communication, verbal and nonverbal, with additional focus on developing and practicing counseling micro-skills under supervision and observation. The material in this course is aimed at helping students develop basic counseling skills necessary for effectively counseling and communicating with clients while integrating theory into practice.

Note: Recommended to be taken within the first 6 units of study in the Counselor Education Program

Credit/No Credit

EDC 282. Practicum in Group Counseling. 2 Units
Prerequisite(s): EDC 219; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring
Supervised practice in leadership of group counseling. Lecture one hour; laboratory three hours.

Credit/No Credit

EDC 294. Cooperative Education Experience. 2 Units
Prerequisite(s): Open only to upper division and graduate students; consent of Department Chair.
Term Typically Offered: Fall, Spring
Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student's major field of study and academic credit. Students receive supervised employment in school districts, state and community agencies, companies, and other appropriate settings. Requires attendance at weekly meetings, preparation of application packet, completion of field study assignment, and a written final report.

Note: Units may not be used to meet course work requirements. May be repeated once for credit.

Credit/No Credit

EDC 296P. Current Issues in Counseling: Meditation. 1 Unit
Term Typically Offered: Fall, Spring
An introductory experimental class in meditation which provides a basic foundation of basic meditative theories, the experience of meditative practices, and a basic knowledge of meditative techniques of benefit both personally and with clients. Research has demonstrated that meditation is helpful in a number of stress-related conditions and recent research indicates it is often more effective than psychotherapy in treatment of some problems.

Note: Instructor approval required. May be taken twice for credit.

Credit/No Credit

EDC 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects at graduate level designed especially for students capable of independent study.

Note: Admission by approval of the instructor with whom the student will be working directly and the Department Chair.

Credit/No Credit
### EDC 475. Counseling Practicum.  
3 Units  
**Prerequisite(s):** EDC 219 and classified student in MS Counseling. Additional prerequisites by specialization: Career - EDC 260; MCFC - EDC 476; School - EDC 270; Rehabilitation - EDC 239.  
**Term Typically Offered:** Fall, Spring  
Supervised counseling practice in Center for Counseling and Diagnostic Services (CCDS) and/or school settings. Emphasis on application of counseling theories and the integration of one's own counseling philosophy into practical applications. Basic requirements: 100 clock hours with at least 40 client contact hours, 1 hour per week of individual/triadic supervision, and one and half hours per week of group supervision.  
**Note:** Department petition is required the semester prior to enrollment. Must receive Credit for EDC 475 in order to move into EDC 480.  
Credit/No Credit

### EDC 476. Advanced Skills in Marriage and Family Counseling.  
1 Unit  
**Prerequisite(s):** Classified student in the MS Counseling program and marriage, couple, family counseling concentration  
**Term Typically Offered:** Fall, Spring  
Structured observation and supervised practice in marriage, couple, and family counseling. Application of material learned in EDC 234 to build on practice and use of systems theories and techniques. Emphasis on establishing relationships, interviewing techniques as designated with multiple clients, assessment techniques, setting goals, developing theory based treatment plans using systems theories, and learning to think systemically. Laboratory two hours.  
Credit/No Credit

### EDC 480. Field Study In Counseling.  
3 Units  
**Prerequisite(s):** EDC 475 and department approval.  
**Term Typically Offered:** Fall, Spring  
Supervised counseling and field experiences arranged in community-based settings such schools, colleges and/or agencies. Students are to collect between 600-800 hours of field work experience in the form of direct and indirect counseling experiences as designated by specialty and aligned with CACREP, CTC, and BBS requirements. This course is designed to be taken third year in both fall and spring, collecting approximately 300 hours each semester and totaling 6 units.  
**Note:** EDC 480 must be taken twice, over two separate semesters, in order to meet accreditation requirements. Department approval is required the semester prior to enrollment.  
Credit/No Credit

### EDC 500. Master's Culminating Experience.  
1 Unit  
**Prerequisite(s):** Advancement to Candidacy for the master's degree must be filed prior to enrollment in EDC 500: Culminating Experience which is taken in the last semester of course work; Classified student in the Counselor Education Program; Department petition, and Advancement to Candidacy, are required the semester prior to enrollment.  
**Term Typically Offered:** Fall, Spring  
Focuses on reviewing and synthesizing of student's knowledge of theory and practice. A review and examination of previous learning in the areas of: Professional Counseling Orientation & Ethical Practice; Social & Cultural Diversity; Human Growth & Development; Career Development; Counseling & Helping Relationships; Group Counseling & Group Work; Assessment & Testing; and Research & Program Evaluation, through the Counselor Preparation Comprehensive Examination (CPCE) comprehensive final exam. Students must pass the CPCE to demonstrate understanding of the 8 core content areas.  
**Note:** Taken in preparation for the comprehensive examination  
Credit/No Credit

### Education - Curriculum and Instruction (EDCI)

3 Units  
**Term Typically Offered:** Fall, Spring  
This course will explore the ways in which K-12 schools are influenced by the economic, social and political environment. It will examine how educators can respond to the conditions and issues that exist, in particular, how the individual teacher's study and practice is shaped by and can transform public education.

#### EDCI 251. Power in Education.  
3 Units  
**Term Typically Offered:** Fall, Spring  
Advanced study of critical pedagogy as a vision for shifting the power in education through a consideration of the sociocultural and sociopolitical issues in schooling. Course readings focus on the experiences of students in schools; school organization; and relationships between communities and schools. The emphasis is on American public school systems through an exploration of educational inequities, from theoretical and practical viewpoints.

#### EDCI 252A. Inquiry & Practice in Education.  
3 Units  
**Corequisite(s):** EDBM 250 and EDCI 252B.  
**Term Typically Offered:** Fall, Spring  
Students will develop a research proposal for classroom-based inquiry designed to address the needs of a specific classroom context. Students will determine a mixed methods research design and identify methods for data collection and analysis. While enrolled in this course, and EDCI 252B, students must have IRB approval for data collection in K-12 classrooms.  
**Note:** Concurrent enrollment in EDBM 250 and EDCI 252B is required; Open to Graduate MA students only.
EDCI 252B. Inquiry & Practice Field Experience in Education. 3 Units
Corequisite(s): EDCI 252A and EDBM 250
Term Typically Offered: Fall, Spring

Requires concurrent enrollment in EDCI 252A seminar. This course begins the inquiry process by engaging in the field. Candidates will choose an educational context in which to plan the focused inquiry. Students must have IRB approval for conducting this research and have clearance that meets the requirements of participation in the educational setting (fingerprints, background check, etc.). Engagement in a student’s chosen setting must be approved and proof of approval must be provided before engaging in the setting.

Note: Concurrent enrollment in EDCI 252A is required.

EDCI 253A. Action & Analysis in Education. 3 Units
Prerequisite(s): EDBM 250, EDCI 252A, EDCI 252B.
Corequisite(s): EDCI 253B.
Term Typically Offered: Fall, Spring

Candidates will continue participating in the field experience to conduct the focused inquiry. Students must have IRB approval for conducting this research and have clearance that meets the requirements of participation in the educational setting (fingerprints, background check, etc.). Engagement in a student’s chosen setting must be approved and proof of approval must be provided before engaging in the setting.

Note: Concurrent enrollment in EDCI 253B is required. Open to Graduate MA students only.

EDCI 253B. Action & Analysis Field Experience in Education. 3 Units
Prerequisite(s): EDBM 250, EDCI 252A, EDCI 252B
Corequisite(s): 253A
Term Typically Offered: Fall, Spring

Requires concurrent enrollment in EDCI 253A seminar. Candidates will continue participating in the field experience to conduct the focused inquiry. Students must have IRB approval for conducting this research and have clearance that meets the requirements of participation in the educational setting (fingerprints, background check, etc.). Engagement in a student’s chosen setting must be approved and proof of approval must be provided before engaging in the setting.

Note: Open to Graduate MA students only.

EDCI 505. Culminating Experience: Curriculum and Instruction. 3 Units
Prerequisite(s): EDCI 252A/B. Advanced to candidacy and permission of his/her faculty advisor and the department chair one full semester prior to registration.
Term Typically Offered: Fall, Spring

This is the culmination of a series of methods courses toward completion of the MA in Curriculum and Instruction. In this course, MA students will complete the process they began in EDCI 252A and 253A with a culminating experience that consists of a written exam and oral defense. Credit/No Credit

EDGR 210. Contemporary Issues in Education: Curriculum and Social Emotional Well Being of Students. 3 Units
Term Typically Offered: Fall, Spring

This course examines contemporary issues in education, with special attention to the social, cultural, political, economic, and institutional dynamics of educational processes and the impacts on students, schools, and communities. Fulfilling the mission of the Masters programs and the College of Education vision, the course focuses on preparing students to become social change agents in schools and communities. Topics covered will fit into the two threads of (a) curriculum and (b) social emotional well-being of students.

EDGR 211. Contemporary Issues in Education: Context of Schooling and Leadership. 3 Units
Term Typically Offered: Fall, Spring

This course examines contemporary issues in education, with special attention to the social, cultural, political, economic, and institutional dynamics of educational processes and the impacts on students, schools, and communities. Fulfilling the mission of the Masters programs and the College of Education vision, the course focuses on preparing students to become social change agents in schools and communities. Topics covered will fit into the two threads of (a) context of schooling and (b) leadership.

EDGR 220. Issues in New Literacies throughout the Lifespan. 3 Units
Term Typically Offered: Fall, Spring

This course examines contemporary issues in literacy. The course introduces students to pedagogies and politics of new literacies within a variety of contexts: academic, new literacy studies, technology literacy, cultural, family, community, and workplace literacy. From a frame of literacy/illiteracy, students examine its connections with economic, political, social, occupational, education, governmental, and cultural change. Students will study how literacy programs are organized and implemented, examine research on the rationale for literacy, including the connection between literacy and healthy, livelihoods, empowerment, community development and cognitive skills.

EDGR 251. Principles of Universal Design for Learning. 3 Units
Term Typically Offered: Fall only

Provides an introduction to the UDL educational framework to explore strategies for educators and course designers to build UDL into lessons and assessments so all participants have equal opportunities to learn. A range of topics in UDL explore ways for practitioners to use the framework as a guide to design flexible curriculum in a variety of disciplines.

EDGR 252. Instructional Design and eLearning Practicum I. 3 Units
Term Typically Offered: Fall only

Provides an opportunity to demonstrate competence in applying concepts from instructional design, project management, and educational technology based on the results of a needs analysis in a field-based setting. Students will design an inclusive instructional intervention and present a model for an online or hybrid eLearning modality. Program project plan provides support for students’ culminating projects/thesis.
EDGR 253. Instructional Design and eLearning. 3 Units
Term Typically Offered: Spring only
This course provides students with experiences to develop the knowledge, skills, and dispositions essential in the design of instruction that involves uses of inclusive technology for learning. Students will develop teaching and learning activities that may include webinars, parts of a course or workshop, online learning, or others with the instructor’s approval. Students will explore and apply instructional design processes, the UDL framework, and theories for analysis, planning, and evaluation of equitable and inclusive learning experiences for diverse audiences.

EDGR 254. Instructional Design and eLearning Practicum II. 3 Units
Term Typically Offered: Spring only
Provides a continued opportunity to demonstrate competence incorporating concepts from instructional design, project management, and educational technology in the field-based program project. Students will develop, incorporate, and evaluate the effectiveness of applying the UDL principles to an instructional intervention. Project plan provides support for students’ culminating projects/thesis.

EDGR 255. Multimedia and Advanced Applications for Inclusive Course Design. 3 Units
Term Typically Offered: Spring only
Examines technology and multimedia as the foundation for inclusive education strategies. Includes the necessity for accessible technology applications, web design, and learning materials. Explore strategies in which technology can be utilized in the development of inclusive learning materials.

EDGR 256. Aligning Culturally Responsive Education and UDL. 3 Units
Term Typically Offered: Summer only
Advanced study of effective and inclusive education design. Examine curriculum design through a culturally responsive lens in digital spaces where a diversity of voices are affirmed. Studies theories of learning, assessment, individual differences, cultural, historical, philosophical, and social/political influences. Students will utilize the UDL framework to anticipate barriers to learning for historically underrepresented communities.

EDGR 257. Culminating Experience in MA in UDEL. 3 Units
Term Typically Offered: Summer only
Student will evaluate the implementation of Program project. Culminating Exam will consist of an ePortfolio organized with program coursework artifacts. Student reflections of educational experiences through various program courses will be included.

EDGR 260. Writing and Research Across the Disciplines. 3 Units
Prerequisite(s): Admission to graduate program in the College of Education or instructor permission
Term Typically Offered: Fall, Spring
Orientation to graduate study design to introduce students to research within their field of study and across disciplines in the College of Education. Overview of qualitative and quantitative methods and basic statistical concepts. Focus on writing to communicate evidence-based knowledge in a professional manner using APA style. Includes research presentations, active discussion, critical reading, and analytical writing with some activities.
Note: This course serves as a foundation for further study and must be taken prior to 250. This course satisfies the GWI requirement.

EDGR 270. Makerspaces. 3 Units
Term Typically Offered: Fall, Spring, Summer
This course examines makerspaces as locales, which are central to "maker" culture. Students will explore the role of makerspaces in local, national and international communities. Specifically, students will conduct critical analysis of the concepts surrounding the rise of "third spaces" in American society to understand the proliferation of makerspaces throughout the United States. Students will also investigate the integration of makerspaces into schooling and vocational practices as they explore ways that makerspaces function to develop 21st century learning and innovation.

EDGR 272. Project-Based Learning and Assessment for Maker Educators. 3 Units
Prerequisite(s): EDGR 270, EDGR 273
Corequisite(s): Practicum
Term Typically Offered: Spring, Summer
In this hybrid course that includes equal parts theory and practical application students will experience what it is to both complete skill and performance based tasks using a Makers approach and also assess those same tasks through the lens of 21st Century Skills: communication, collaboration, critical thinking, problem solving, creativity and innovation.

EDGR 273. Maker Theory and Practice. 3 Units
Term Typically Offered: Fall, Spring, Summer
This course is an overview of theoretical frameworks that undergird making, the maker movement, and Maker Education. We will examine the ideas and practices associated with educational reforms that emphasize do-it-yourself (DIY) learning and 21st century skill development in high-tech and low-tech environments. Students will critically investigate the connections between theoretical perspectives and applied practices including STEM/STEAM Initiatives, design thinking, critical making, project-based learning, and universal design for learning. Theories that students will explore include: constructivism, constructionism, culturally sustaining pedagogy.

EDGR 274. Practicum for Maker Educators. 3 Units
Term Typically Offered: Spring, Summer
Supervised maker practice in community and/or school setting to be approved by instructor. Practicum emphasizes the function of maker theories in the development and implementation of maker programming. Basic requirements: 200 clock hours with at least 100 hours devoted to practical application of theoretical frameworks in programming and assessment, two hours per week of skill building with maker tools, and one hour bi-weekly of mentoring with practicum supervisor. Prerequisite: EDGR 270, EDGR 272, and EDGR 273. Credit/No Credit

EDGR 287A. Seminar in Culminating Experience Exploration and Design. 1 Unit
Term Typically Offered: Fall only
Explore and identify potential Culminating Experience project topics in instructional design and/or educational technology trends and issues through surveys of published research, discussions, and presentations with peers and professionals. Compare and contrast existing literature and research, identify trends, recognize real-world best practices, and explore underlying factors contributing or relating to your Culminating Experience topic of interest. Credit/No Credit
EDGR 287B. Seminar in Culminating Experience Development and Proposal. 2 Units
Prerequisite(s): EDGR 287A
Term Typically Offered: Spring only

Discuss, develop and propose a Culminating Experience project in instructional design and/or educational technology based on prior exploration and identification of topics and issues. Develop program ePortfolio.

EDGR 557. Culminating Experience in MA in UDEL. 3 Units
Term Typically Offered: Summer only

Student will evaluate the implementation of Program project. Culminating Exam will consist of an ePortfolio organized with program coursework artifacts. Student reflections of educational experiences through various program courses will be included.

Education - Language and Literacy (EDLL)

EDLL 200. Practicum in Decoding and Fluency: Assessment and Instruction. 3 Units
Prerequisite(s): Graduate standing, admission to the program, and current preservice reading course or equivalent. Paired: EDLL 201
Term Typically Offered: Fall, Spring

Research, practice, and issues related to decoding, spelling, and fluency instruction from preschool through adult with applications to classroom teaching. Includes a practicum for assessing and tutoring students having difficulty in decoding.

EDLL 201. Practicum in Comprehension: Assessment and Instruction. 3 Units
Corequisite(s): EDLL 200 Paired: EDLL 200
Term Typically Offered: Fall, Spring

Research, practice, and issues related to comprehension such as vocabulary, background knowledge, and reading strategies from preschool through adult with applications for classroom teaching. Topics include motivation, metacognition, and strategic reading. Analysis of formal and informal assessment measures with a focus on utility, reliability, and validity. In the practicum portion, teachers assess and tutor students with reading difficulties.

EDLL 202. Language and Literacy Development in Multicultural Settings. 3 Units
Prerequisite(s): Admissions into the M.A. Program in Language and Literacy. Permission from the department with graduate standing.
Term Typically Offered: Fall, Spring

Research and theory related to the nature of culture, first and second language acquisition, schooling and literacy development. A specific focus on English Learners will be taken. Implications of the research and theory for working with pre-K children through adults in group contexts.

EDLL 203. Teaching and Assessing Writing in the Pre-K through 12 Classroom. 3 Units
Term Typically Offered: Spring, Summer

Writing assessment and instruction in pre-K through 12 classrooms and other settings is the dominant focus. Topics include research and theoretical models of composition, classroom-based instructional approaches to process writing instruction, writing assessment and writing strategies to improve reading comprehension and writing instruction in a social context.

EDLL 205. Psychology and Sociology of Literacy Instruction. 3 Units
Term Typically Offered: Fall, Spring

This course examines contemporary and historical issues in literacy, including the pedagogies and politics within various contexts: academic, new literacy studies, technology literacy, cultural, family, community, and workplace literacy. Incorporates technological literacies, family, community, and workplace literacies, cultural literacies, and multiliteracies. A major focus is the investigation and understanding of the reading process, various theories that attempt to explain the process, and the implications of those theories for language and literacy development. A literature review will be initiated.

EDLL 206. Leadership In Literacy. 3 Units
Prerequisite(s): Admissions into the M.A. Program in Language and Literacy. Permission from the department with graduate standing.
Term Typically Offered: Fall, Spring

Students will examine a school's reading and language arts practices in context and write a response. They will engage in field experiences and applying them to their theoretical understandings about contemporary schooling policies. Provides candidates with opportunities to incorporate understandings about literacy and the context of literacy cultures to field actions related to their professional development. Students will apply strategies useful in assessing, evaluating, and making recommendations for sustaining or improving literacy teaching, learning, and assessment at a school.

EDLL 207. Advanced Practicum in Reading Difficulties: Assessment and Intervention. 3 Units
Term Typically Offered: Fall, Spring

Evaluation and use of materials and techniques for assessing and teaching decoding, spelling, and comprehension across ages, languages, developmental levels, and diverse backgrounds. Examination of models of reading disability and of intervention programs for students and adults with varying degrees of disability. Application through assessment, instruction, and compilation of a case study of a student or adult with reading and/or spelling difficulties. Permission of instructor required for those wishing to take the course as an elective.

EDLL 208. Issues, Models and Strategies. 3 Units
Term Typically Offered: Fall, Spring, Summer

Analyze state and national issues related to the use of young adult literature in schools. Evaluate models and strategies for employing quality literature (fiction and non-fiction) effectively in the Pre-K through 12 multicultural classroom. Building upon research and genre overview, each participant will develop instructional materials and strategies such as booklists, storytelling, textsets, read-alouds, and web-based literature activities for students and support materials for parents.
EDLL 250. Education Research. 3 Units
Term Typically Offered: Fall, Spring, Summer

Studies qualitative and quantitative research methods in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies.

EDLL 503. Culminating Experience: Language and Literacy. 3 Units
Prerequisite(s): EDLL 250; Advanced to candidacy and permission of his/her faculty advisor and the department chair one full semester prior to registration.
Term Typically Offered: Fall, Spring, Summer

Completion of a thesis or project approved for the Master's degree.

Education - Multiple Subject (EDMS)

EDMS 213. Strategies for Inclusive Classrooms: Multiple Subject. 3 Units
Prerequisite(s): Admission into a teacher preparation program.
Term Typically Offered: Fall, Spring

This course provides multiple subject and special education candidates with dispositions, knowledge, and skills needed to serve students with disabilities in general education classrooms. Strategies specific to students in their least restrictive environment will be covered emphasizing Universal Design for Learning, Multi-Tiered Systems of Support, social-emotional learning, co-teaching, differentiated instruction, roles and responsibilities of special/general education teachers, peer mediated learning strategies, modifications of standards and learning outcomes for students with disabilities, and assistive technology (low and high tech adaptations).
Cross listed: EDSS 282/EDSP 293/EDMS 213

EDMS 232. Assessment Center Laboratory for Multiple Subject Candidates. 2 Units
Corequisite(s): EDMS 430B or EDMS 434B or EDSP 420B.
Term Typically Offered: Fall, Spring

Individualized support to guide multiple subject candidates through the process of completing and submitting the culminating Teaching Performance Assessment (TPA) mandated by the program’s accrediting body and completion of their electronic program portfolio. The signature assignments, formative TPA assessments and summative TPA Teaching Event represent an electronic portfolio embedded throughout the program. In addition, the candidates will complete an annotated bibliography for readings across the credential program. Credit/No Credit

EDMS 234A. Foundations of Teaching in a Diverse K-8 Classroom - A. 1 Unit
Prerequisite(s): Admission to the Multiple Subject Teacher Credential Program or the Master of Arts in Teaching with Multiple Subject Teaching Credential Program.
Corequisite(s): EDMS 234B
Term Typically Offered: Fall, Spring

Introduction to critical analysis of purpose and process of elementary level public schooling in the U.S. Examination of sociopolitical contexts of public schools and society; educational theories, philosophies, notions of culture and social justice, community and educational practice. Engagement with sociocultural, historical, and philosophical foundations of education, multicultural education, learning theories, and theories of cognitive and social development. Candidates examine own biases and work to mitigate negative impact on student learning. This lecture course paired with breakout discussion (EDMS 234B).

EDMS 234B. Foundations of Teaching in a Diverse K-8 Classroom - B. 2 Units
Prerequisite(s): Admission to the Multiple Subject Teacher Credential Program or the MA in Teaching with Multiple Subject Credential Program.
Corequisite(s): EDMS 234A
Term Typically Offered: Fall, Spring

Introduction to critical analysis of purpose and process of elementary level public schooling in the U.S. Examination of sociopolitical contexts of public schools and society; educational theories, philosophies, notions of culture and social justice, community and educational practice. Engagement with sociocultural, historical, and philosophical foundations of education, multicultural education, learning theories, and theories of cognitive and social development. Candidates examine own biases and work to mitigate negative impact on student learning. This discussion course paired with lecture (EDMS 234A).

EDMS 235A. Advanced Principles of Teaching in a Diverse K-8 Classroom - A. 1 Unit
Corequisite(s): EDMS 235B
Term Typically Offered: Fall, Spring

This course is the lecture portion of a two-course series. It deepens candidates’ knowledge of theories and practices necessary to execute the Plan-Instruction-Assess-Reflect cycle of mindful teaching for diverse students. Candidates will expand their understandings of how theoretical frameworks for teaching (learning theory, human development theory, multicultural education, inclusive and differentiated education, assessment frameworks, and models of teaching and curriculum planning) are applied in varied public school classrooms and contexts.

EDMS 235B. Advanced Principles of Teaching in a Diverse K-8 Classroom - B. 1 Unit
Corequisite(s): EDMS 235A
Term Typically Offered: Fall, Spring

This course is the discussion portion in a two-course series. In this course, candidates translate theories, concepts and frameworks presented in Advanced Principles of Teaching A into strategies and practices for instruction, assessment, and curriculum development in the K-8 classroom. Candidates will create activities, develop lesson and unit plans that integrate and apply various theories and frameworks for instruction. Candidates will design, lead and engage in simulations, peer teaching, and workshops.
EDMS 241. Action Research in Multicultural Settings. 5 Units
Prerequisite(s): Admission to the Master of Arts in Teaching with Multiple/Single Subject Teaching Credential program; Completion of EDMS 434B or EDSS 474B.
Term Typically Offered: Summer only

This course focuses on an introduction to Action Research in multicultural educational settings. It includes an overview of various research paradigms, with emphasis on Action Research and Teacher Action Research. Additional topics covered in this course include: critical pedagogy, forms of multicultural education, and issues related to educational equity and providing access of opportunity to students from underserved populations.

Cross listed: EDSS 244

EDMS 242. Critical Perspectives in Classroom Inquiry. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241.
Term Typically Offered: Fall only

This course is part of the Master of Arts in Teaching with Multiple Subject Teaching Credential Program and builds on the knowledge that students gain in EDMS/EDSS 241. During this course students will complete a literature review of research related to their critical inquiry question. Students will additionally explore the historical and current trends in critical classroom inquiry and consider the implications for schools in diverse settings. Further course activities include developing a Classroom Inquiry Project and submitting the IRB.

Cross listed: EDSS 242.

EDMS 243. Data Collection for Action Research in Multicultural Settings. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241.
Term Typically Offered: Fall only

This course builds students understanding of appropriate types and uses of data in Action Research in multicultural education settings. During this course students will be presented with the sociopolitical contexts for data collection and its subsequent use in educational policy. Students will apply theoretical knowledge by practicing to collect and initially interpreting multiple types of data. These experiences will lay the groundwork for student development and implementation of the data collection plan for their own Classroom Inquiry Projects.

Cross listed: EDSS 243.

EDMS 244. Sociocultural & Sociopolitical Contexts of Data Analysis. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243
Term Typically Offered: Spring only

This course builds students understanding of appropriate methods of data analysis in Teacher Action Research in multicultural education settings. Students will learn how data analysis has been used to interpret research in diverse school settings. Students will apply theoretical knowledge by analyzing multiple types of data sets form both qualitative and quantitative sources. These experiences will lay the groundwork for student implementation of analysis of their own data for their Action Research inquiry projects.

Cross listed: EDSS 244

EDMS 247. Research Inquiry Projects. 3 Units
Prerequisite(s): Admission to the Master of Arts in Teaching with Multiple/Single Subject Teaching Credential program; Completion of EDMS 434B or EDSS 474B.
Term Typically Offered: Summer only

This course focuses on an introduction to Action Research in multicultural educational settings. It includes an overview of various research paradigms, with emphasis on Action Research and Teacher Action Research. Additional topics covered in this course include: critical pedagogy, forms of multicultural education, and issues related to educational equity and providing access of opportunity to students from underserved populations.

Cross listed: EDSS 244

EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243
Term Typically Offered: Spring only

This course builds students understanding of appropriate methods of data analysis in Teacher Action Research in multicultural education settings. Students will learn how data analysis has been used to interpret research in diverse school settings. Students will apply theoretical knowledge by analyzing multiple types of data sets form both qualitative and quantitative sources. These experiences will lay the groundwork for student implementation of analysis of their own data for their Action Research inquiry projects.

Cross listed: EDSS 244

EDMS 272. Methods for Teaching Second Language Learners, Multiple Subject (ELD and SDAIE). 3 Units
Prerequisite(s): EDUC 170
Term Typically Offered: Fall, Spring

Focus on teaching candidates the methods, techniques and strategies needed to make content accessible for second language learners. Candidates will learn to use the state ELD standards to create ELD lessons and SDAIE lessons within multicultural framework. Candidates will also learn how to interpret and implement formative and summative assessments. Lecture, demonstration, modeling, group work, discussions, field experience.

EDMS 299. Special Problems: Multiple Subject. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects for Multiple Subject credential candidates at graduate/credential level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and the Department Chair.

Note: This course may be repeated for up to 9 units of credit.

Credit/No Credit

EDMS 310C. Pedagogy C: Classroom Instruction and Positive Management for Diverse Classrooms. 1 Unit
Prerequisite(s): Admission to Multiple Subject Credential Program.
Successful completion of EDMS 310B.
Term Typically Offered: Fall, Spring

Reinforces the cycle of teaching: lesson planning, implementing, reflection and application at a deeper developmental level. Intensive support for classroom management and discipline; disruptive behaviors; problem-solving communication with district administrators, parents at community level as child advocates. Emphasis on differentiating instruction to individual needs of diverse learners. Scaffolding to support growth and developmental stages of the learning-to-teach process and professional responsibilities. Infusion of e-portfolio development and the integration of technology.

Credit/No Credit

EDMS 314. Mathematics Curriculum and Instruction for the Diverse K-8 Classroom. 3 Units
Term Typically Offered: Fall, Spring

Focusing on a "meaning approach" to mathematics which prepares candidates to teach mathematics content standards for California public schools to all students, including English Learners and special needs; to use analytical and critical thinking skills in mathematics; and to infuse mathematics topics, themes, and concepts into other subject areas. Discussion, field visits, microteaching, demonstrations, presentations, and technological applications for mathematics will be included.

EDMS 315. History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom. 3 Units
Term Typically Offered: Fall, Spring

Prepares teacher candidates in multiple subjects to teach the history-social science content standards for California public schools to all students, including English Learners and special needs; to use analytical and critical thinking skills in history and social science; and to integrate history-social science topics, themes, and concepts with other subject areas. Pedagogical topics include the use of timelines, maps, artifacts, case studies, simulations, literature, art, multiple perspectives, SDAIE, cooperative projects, and research activities.
EDMS 316. Science Curriculum and Instruction for the Diverse K-8 Classroom. 3 Units
Term Typically Offered: Fall, Spring

Knowledge of basic principles and strategies related to science education, incorporating an expanded treatment of science pedagogy, manipulatives, technological supports, accommodations, adaptive instructional techniques, and other strategies specially suited to the instruction of diverse student populations.

EDMS 317. Visual and Performing Arts Methods for the Diverse K-8 Classroom. 1 Unit
Prerequisite(s): Admission to Multiple Subject Teacher Credential Program.
Term Typically Offered: Fall, Spring

Prepares candidates in a Multiple Subjects credential program to teach the visual and performing arts content standards for California public schools to all students, including English Learners, and special needs students. Preparation is through interrelated activities with involvement in specific teaching strategies which are effective in achieving the goals of developing artistic perception and creative expression, understanding the cultural and historical origins of the arts, making informed judgments about the arts, and understanding the arts connections and relationships across curriculum.

Credit/No Credit

EDMS 319A. Language and Literacy I for the Diverse K-8 Classroom. 3 Units
Prerequisite(s): Admission to the MAT with Multiple Subject teaching credential program
Corequisite(s): EDMS 401 or EDMS 434A
Term Typically Offered: Fall, Spring

Develops understandings, attitudes, and competencies needed for effective instruction of language and literacy for mainstream populations, English Learners/Emergent Bilinguals, and students with special needs. Instructional strategies for teaching concepts about print, phonemic awareness, phonics, fluency, vocabulary, and comprehension of narrative informational/argument texts with an emphasis on meaning making. Instructional planning aligned with current content standards and the Social Justice Standards. Informal and formal assessment strategies that inform planning and instruction foundational skills and reading comprehension. Lecture and discussion.

EDMS 319B. Language and Literacy II for the Diverse K-8 Classroom. 2 Units
Prerequisite(s): EDMS 319A
Corequisite(s): EDMS 434A or EDMS 434B or EDMS 434C
Term Typically Offered: Fall, Spring

Extends understandings, attitudes, and competencies needed for effective instruction of language and literacy related to writing instruction for mainstream populations, English Learners/Emergent Bilinguals, and students with special needs. Instructional strategies for teaching writing in various genres (narrative, informational, argument), formal and informal writing, conventions, writing to learn, response to reading, writing process, and writing across the curriculum. Instructional planning aligned with content standards and social justice teaching. Assessment strategies that inform planning and instruction of writing. Lecture and Discussion.

EDMS 330A. Educational Technology Lab I. 1 Unit
Prerequisite(s): Admission to Multiple Subject Teacher Credential Program.
Term Typically Offered: Fall only

Educational technology lab course will prepare the candidates use technology for three areas: coursework in the teaching credential program, enhancing teaching and learning and eportfolio development. Students are introduced to an array of digital technologies for teaching relevant for K-12 student learning. Among the topics include digital literacy, copyright, fair use, Internet safety, Creative Commons, presentation tools, ISTE standards, technology and Teaching Performance Expectations, presentation tools, interactive whiteboards, and many others. The focus is on students learning about technology use in teaching and learning in K-12 schools. Candidates are prepared to use technology in the Teaching Credential Program and for the development of an electronic portfolio.

Credit/No Credit

EDMS 330B. Educational Technology Lab II. 1 Unit
Prerequisite(s): EDMS 330A
Term Typically Offered: Spring only

In this course, candidates will learn to create, use, and manage appropriate and relevant educational technological processes and resources. The candidates will deepen their knowledge of technology in the K-12 public school environment and apply their understanding to improve student engagement and student learning outcomes. The candidates will also learn to use technology associated with the Teaching Credential Program and finalize their electronic portfolio for the program.

Credit/No Credit

EDMS 334C. Fundamentals of Teaching in a Diverse K-8 Classroom. 2 Units
Prerequisite(s): Admission into the Multiple Subject Credential Program or the MA in Teaching with Multiple Subject Teaching Credential program.
Term Typically Offered: Fall, Spring

This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive elementary classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as a teacher, curriculum development, long and short-term planning, and specific theories for instructional practice.

EDMS 401. Observation and Participation in Elementary Schools. 2 Units
Prerequisite(s): Admission to Teacher Preparation Program
Term Typically Offered: Fall, Spring

Observations in classes in several situations and grade levels; service as an assistant in at least one classroom. Visits to community agencies which serve the school population.

Credit/No Credit
EDMS 420A.  Field Experience: Multiple Subject.  4 Units
Prerequisite(s): Admission to Teacher Preparation Program.
Term Typically Offered: Fall, Spring

Two semesters of student teaching multiple subjects in public school classrooms providing experiences at two grade levels and with different cultural groups. Intensive, realistic experiences with continuous and varied responsibilities. This first semester student teaching with integrated methods course work requires half-day participation. Experiences in classroom teaching and participation in many of the out-of-class duties of a teacher.
Credit/No Credit

EDMS 420B.  Student Teaching: Multiple Subject.  10 Units
Prerequisite(s): Admission to Teacher Preparation Program.
Term Typically Offered: Fall, Spring

Second semester student teaching with integrated methods course work requires full-day participation of the student. Emphasis on classroom teaching and further experience with community services.
Credit/No Credit

EDMS 430A.  Student Teaching I Basic.  5 Units
Prerequisite(s): Admission to Teacher Preparation Program.
Term Typically Offered: Fall, Spring

One semester of teaching multiple subjects in a public school setting with diverse learners. This first semester of student teaching is completed concurrently with integrated coursework.
Credit/No Credit

EDMS 430B.  Student Teaching II: Basic.  7 Units
Prerequisite(s): Admission to Teacher Preparation Program.
Term Typically Offered: Fall, Spring

One semester of teaching multiple subjects in a public school setting with diverse learners. This second semester of student teaching is completed concurrently with integrated coursework and focuses primarily on planning, implementing, and assessing instruction for whole classes of students.
Credit/No Credit

EDMS 434A.  Field Experience for Elementary Teachers.  6 Units
Prerequisite(s): Admission to the Multiple Subject Credential program.
Term Typically Offered: Fall, Spring

Candidates complete field experience in public school classrooms concurrently with integrated coursework. Field experiences focus primarily on observing model lessons and activities and on collaborative planning, implementing and assessing instruction for small groups of students.
Credit/No Credit

EDMS 434B.  Student Teaching for Elementary Teachers.  8 Units
Prerequisite(s): EDMS 434A.
Term Typically Offered: Fall, Spring

One semester of teaching multiple subjects in a public school setting with diverse learners. This final semester of student teaching is completed concurrently with integrated coursework and focuses primarily on planning, implementing and assessing instruction for whole classes of students.
Credit/No Credit

EDMS 434C.  Intern Teaching for Elementary Teachers.  8 Units
Prerequisite(s): EDMS 434A and department approval.
Term Typically Offered: Fall, Spring

One semester of multiple subjects intern teaching in a public school setting with diverse learners. This semester of intern teaching is completed concurrently with integrated coursework and focuses primarily on planning, implementing, and assessing instruction for a whole class of students while employed as teacher of record.
Credit/No Credit

EDMS 500.  Classroom Inquiry Project: Culminating Experience.  3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243.
Term Typically Offered: Spring only

Course establishes that master candidates have acquired the essential knowledge and skills covered in each of the courses leading to the Master of Arts in Teaching with Multiple Subject Teaching Credential. Proficiency is demonstrated through a comprehensive examination of essential content of each course in the master’s degree program. Candidates will produce a written portfolio, accompanying executive summary, and oral presentation of the body of work completed during the Master of Arts in Teaching with Multiple Subject Teaching Credential Program.
Cross listed: EDSS 500
Credit/No Credit

EDMS 599.  Continuous Master of Arts in Teaching Enrollment.  0 Units
Prerequisite(s): Student has completed all MAT coursework prior to EDMS 500 and earned an RP in EDMS 500 or EDSS 500.
Term Typically Offered: Fall, Spring

This is a zero-unit course for students in the Master of Arts in Teaching (MAT) program who earn an RP in their culminating experience course, EDMS/EDSS 500. The purpose of this course is to allow MAT students to maintain their continuous enrollment status while they complete the culminating experience requirements for the MAT program.
Credit/No Credit

Education - School Psychology (EPSY)

EPSY 201.  Legal Aspects of Special Education.  3 Units
Term Typically Offered: Fall only

Legislative provisions related to implementation of special education programs and procedures will be a primary focus. Additional emphasis will be given to pertinent judicial decisions and to law as it relates to special education in a multicultural context, as well as to ethical practices.
Note: The course meets the Graduate Writing Intensive requirement.
EPSY 221. Equity Considerations for School Psychologists. 3 Units
Term Typically Offered: Fall only
To practice in a culturally responsive manner, school psychologists must understand the myriad ways in which racism and social stigma influence public schooling in the United States. This course covers the historical context of education in the United States for individuals who hold marginalized racial, ethnic, gender, sexual orientation, and/or disability-related identities. The course also addresses considerations for working with underrepresented individuals across all domains of school psychologists; practice (e.g., counseling, assessment, consultation). Evidence-based policies, practices, and programs are emphasized.

EPSY 231. Group Process in School Psychology. 3 Units
Term Typically Offered: Fall, Spring
Designed to equip students with the group process skills and understanding essential to the practice of school psychology. Focus on both developing counseling groups within the schools and on the understanding of group process necessary to being an effective agent in the school setting. Topics include the logistics of working within a school system, balancing groups, soliciting referrals, sharing information, participating in staff meeting, and facilitating parent teacher and other school level meetings such as Individualized Education Program Planning meetings.

EPSY 239. Education Specialist Seminar. 3 Units
Prerequisite(s): Approval as a candidate in the Education Specialist program, completion of courses required for the School Psychology Internship credential, approval of advisor, and department petition.
Term Typically Offered: Fall, Spring
Explores leadership roles of school psychologists.
Credit/No Credit

EPSY 240. Functional Assessment of Behavior. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Assessment of behaviors using the techniques of applied behavior analysis. Students will learn how to do functional assessments of behavior. Methods appropriate for assessment of children in the school setting are emphasized.

EPSY 241. Counseling and Psychotherapy for School Psychologists. 3 Units
Corequisite(s): EDS 440.
Term Typically Offered: Fall, Spring
Examination of basic theories of counseling and therapy used by school psychologists, with emphasis on children and youths in an educational setting and their families. Refinement of one’s own counseling orientation is required.

EPSY 242A. Cognitive Assessment. 3 Units
Corequisite(s): EDS 242B.
Term Typically Offered: Fall, Spring
Designed to introduce prospective school psychologists to both theory and practice in the assessment of cognitive abilities. Students will be exposed to various approaches to cognitive assessment including information processing, CBA, dynamic, and psychometric. Students will learn to administer and interpret major standardized cognitive assessment instruments including the WISC-R, WAIS-R, Stanford-Binet FE, KABC, and others. Lecture.

EPSY 242B. Cognitive Assessment Lab. 4 Units
Corequisite(s): EDS 242A.
Term Typically Offered: Fall, Spring
Clinic based practice lab. Lab will be a synthesis and application of course content in the assessment of cognitive function. Students will be assigned clients for purposes of administering, scoring, evaluating and reporting assessment data.

EPSY 243. Assessment Practicum. 3 Units
Term Typically Offered: Fall, Spring
Administration, scoring, and interpretation of tests taught in EDS 242A-B, EDS 244, or EDS 247. Students will be assigned five to seven cases. They will assess the children, meet with the families to gather history, and render interpretation.
Note: Must be taken concurrently with EDS 242A, EDS 242B, EDS 244, and EDS 247. May be taken twice for credit.

EPSY 243A. Assessment Practicum A. 3 Units
Term Typically Offered: Fall, Spring
Administration, scoring, and interpretation of tests taught in EDS 242A and B and EDS 244. Students will be assigned five cases. They will assess the children, meet with the families to gather history, and render interpretation.
Note: Taken concurrently with EDS 244, unless granted special permission of faculty.

EPSY 243B. Assessment Practicum. 3 Units
Prerequisite(s): EDS 243A
Corequisite(s): EDS 247
Term Typically Offered: Fall, Spring
Advanced practice in administration, scoring, and interpretation of tests taught in EDS 242A-B, EDS 243A, EDS 244, and EDS 247. Students will be assigned five to seven cases (with some cases in Fieldwork placements). Development of skills in assessment, analysis of data, intervention planning and conveying results orally and in writing.
Note: Taken concurrently with EDS 247, unless granted special permission of faculty.

EPSY 243C. Assessment Practicum. 3 Units
Prerequisite(s): EDS 243B
Term Typically Offered: Fall, Spring
Continued training in development of advanced skills in administration, scoring, and interpretation of tests taught in EDS 242 A-B, EDS 243A, EDS 243B, EDS 244, or EDS 247. Students will be assigned cases by the practicum supervisor as appropriate. Students are expected to successfully engage in all stages of assessment process with clients.
Note: Taken with permission of faculty after completion of EDS 243A and EDS 243B.
EPSY 244. Social, Emotional and Behavioral Assessment. 3 Units
Prerequisite(s): EDS 242A and EDS 242B.
Corequisite(s): EDS 243.
Term Typically Offered: Fall, Spring
Examines social/emotional assessment strategies and instruments appropriate for working with students in schools. Topics include clinical interviewing, social-emotional functioning, conduct disorder, and effective report writing. Students use course information during concurrent enrollment in EDS 243: Assessment Practicum.
Note: Must be admitted to School Psychology Program.

EPSY 245. Psychology In The Schools. 3 Units
Prerequisite(s): Must be admitted to School Psychology Program.
Term Typically Offered: Fall, Spring
Overview of psychology in the schools. Topics include school systems, program development, service delivery models and the role of the school psychologist. Students will engage in systematic school observations.

EPSY 246A. Preventive Academic Interventions. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Study and application of various primary, secondary, and tertiary academic interventions designed to prevent school failure and/or learning challenges. Examines techniques of identifying pupils who are experiencing academic difficulties that interfere with school functioning, and intervention techniques designed to remediate or ameliorate these problems.

EPSY 246B. Preventive Mental Health Interventions. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Study and application of various primary, secondary, and tertiary psychological interventions designed to prevent school failure and/or emotional challenges. Examines techniques of identifying pupils who are experiencing mental health difficulties that interfere with school functioning, and intervention techniques designed to address these problems.

EPSY 247. Assessment of Special Needs. 3 Units
Term Typically Offered: Fall, Spring
Assessment of client behavior using formal and non-formal methods based on neuropsychological principles. Students will learn to use interview techniques, standardized cognitive and projective tests, and neuropsychological screening procedures to assess students with special needs. Report writing, parent conferences, and consultation strategies will be stressed.

EPSY 248. Human Development and Learning. 3 Units
Term Typically Offered: Fall, Spring
Cognitive, socio-emotional and personality development through the lifespan (with emphasis on birth through early adulthood) as influences on the learning process. Includes analysis of theories, empirical research and current issues in human development and learning as applied to school learning.

EPSY 249. Special Seminar: School Psychology. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading.
Note: Departmental petition required.
Credit/No Credit

EPSY 250. Educational Research. 3 Units
Prerequisite(s): Graduate status
Term Typically Offered: Spring only
Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Classified students are encouraged to take this course early in their graduate programs.

EPSY 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading.
Note: Departmental petition required.
Credit/No Credit

EPSY 439. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year coursework.
Term Typically Offered: Fall, Spring
Fieldwork experience is designed to allow students to explore roles in public schools and to gain experience in the organization and operation of schools, classrooms, and special services. The field placement allows students to work with pupils in public school settings that offer individual and group counseling; consultation with teachers, parents, and other school staff, and special accommodations for students with special needs. Students will work under the supervision of a credentialed school psychologist or school counselor at local school sites. A faculty supervisor from the School Psychology Training Program will work closely with students and field supervisor.
Note: May be repeated for credit.
Credit/No Credit

EPSY 439A. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year coursework. Graded: Credit / No Credit Units: 1.0 - 10.0
Term Typically Offered: Fall, Spring
Fieldwork experience is designed to allow students to explore roles in public schools and to gain experience in the organization and operation of schools, classrooms, and special services. The field placement allows students to work with pupils in public school settings that offer individual and group counseling; consultation with teachers, parents, and other school staff, and special accommodations for students with special needs. Students will work under the supervision of a credentialed school psychologist or school counselor at local school sites. A faculty supervisor from the School Psychology Training Program will work closely with students and field supervisor.
Note: May be repeated for credit.
Credit/No Credit
EPSY 439B. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year course work and EDS 439A.
Term Typically Offered: Fall, Spring
Advanced fieldwork experience providing the opportunity for students to engage in the following activities: individual and group counseling; consultation with teachers, parents, and other school staff, and assessment students. Students will work under the supervision of a credentialed school psychologist. A faculty supervisor from the School Psychology Training Program will work with students and field supervisor. Credit/No Credit

EPSY 439C. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year course work and EDS 439B Graded: Credit / No Credit Units: 1.0 -10.0
Term Typically Offered: Fall, Spring
Ongoing fieldwork experience providing the opportunity for students to more fully develop their skills in: individual and group counseling; consultation with teachers, parents, and other school staff, and assessment of students. Students will work under the supervision of a credentialed school psychologist and a faculty supervisor from the School Psychology Training Program. Credit/No Credit

EPSY 440. Practicum in Individual Counseling/School Psychology. 3 Units
Prerequisite(s): Approval as a candidate in School Psychology program, approval of advisor, and department petition.
Term Typically Offered: Fall, Spring
Supervised practice in individual counseling. Credit/No Credit

EPSY 441. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): Approval as a candidate in the School Psychology program, completion of courses required for the School Psychology Internship credential, approval of advisor, and department petition. May be repeated for credit.
Term Typically Offered: Fall, Spring
Directed field study for school psychologists. Supervised experiences are arranged in school psychology. Credit/No Credit

EPSY 441A. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): Approval as a candidate in the School Psychology program, completion of courses required for the School Psychology Internship credential, approval of advisor, and department petition. Graded: Credit / No Credit Units: 3.0 - 15.0
Term Typically Offered: Fall, Spring
Directed field study for school psychologists. Supervised experiences are arranged in school psychology. Credit/No Credit

EPSY 441B. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): EDS 441A Graded: Credit / No Credit Units: 3.0 -15.0
Term Typically Offered: Fall, Spring
Advanced field study for school psychologists interns. Supervised experiences are arranged in school psychology. Credit/No Credit

EPSY 441C. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): EDS 441B Graded: Credit / No Credit Units: 3.0 - 15.0
Term Typically Offered: Fall, Spring
Third semester of advanced field study for school psychologist interns. Supervised experiences are arranged in school psychology. Credit/No Credit

EPSY 441D. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): EDS 441C Graded: Credit / No Credit Units: 3.0 - 15.0
Term Typically Offered: Fall, Spring
Fourth semester of advanced field study for school psychologists interns. Final semester in which candidates may accrue hours. Supervised experiences are arranged in school psychology. Credit/No Credit

EPSY 540. Education Specialist Thesis: School Psychology. 4 - 6 Units
Term Typically Offered: Fall, Spring
Credit given upon successful completion of a thesis approved for the education specialist degree.
Note: Open only to the graduate students who have been advanced to candidacy for the education specialist degree. Number of units of credit is determined by the candidate’s education specialist advisory committee.

Credit/No Credit

EPSY 541. Master's Project: Education/School Psychology (Plan B). 4 - 6 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring
Credit given upon successful completion of a project approved for the M.A. in Education/School Psychology option.

EPSY 542. Education Specialist Project: School Psychology. 4 - 6 Units
Term Typically Offered: Fall, Spring
Credit given upon successful completion of a project approved for the Education Specialist degree.
Note: Open only to the graduate student who has been advanced to candidacy. Department petition is required. Number of units of credit is determined by the candidate’s advisor.

Credit/No Credit

Education - Single Subject (EDSS)

EDSS 241. Action Research in Multicultural Settings. 5 Units
Prerequisite(s): Admission to the Master of Arts in Teaching with Multiple/Single Subject Teaching Credential program; Completion of EDMS 434B or EDMS 474B.
Term Typically Offered: Summer only
This course focuses on an introduction to Action Research in multicultural educational settings. It includes an overview of various research paradigms, with emphasis on Action Research and Teacher Action Research. Additional topics covered in this course include: critical pedagogy, forms of multicultural education, and issues related to educational equity and providing access of opportunity to students from underserved populations. Cross listed: EDMS 241
EDSS 242. Critical Perspectives in Classroom Inquiry. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241
Term Typically Offered: Fall only

This course is part of the Master of Arts in Teaching with Single Subject Teaching Credential Program and builds on the knowledge that students gain in EDMS/EDSS 241. During this course students will complete a literature review of research related to their critical inquiry question. Students will additionally explore the historical and current trends in critical classroom inquiry and consider the implications for schools in diverse settings. Further course activities include developing a Classroom Inquiry Project and submitting the IRB. Cross listed: EDMS 242

EDSS 243. Data Collection for Action Research in Multicultural Settings. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241.
Term Typically Offered: Fall only

This course builds students understanding of appropriate types and uses of data in Action Research in multicultural education settings. During this course students will be presented with the sociopolitical contexts for data collection and its subsequent use in educational policy. Students will apply theoretical knowledge by practicing to collect and initially interpreting multiple types of data. These experiences will lay the groundwork for students development and implementation of the data collection plan for their own Classroom Inquiry Projects. Cross listed: EDMS 243.

EDSS 244. Sociocultural & Sociopolitical Contexts of Data Analysis. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243
Term Typically Offered: Spring only

This course builds students understanding of appropriate methods of data analysis in Teacher Action Research in multicultural education settings. Students will learn how data analysis has been used to interpret research in diverse school settings. Students will apply theoretical knowledge by analyzing multiple types of data sets form both qualitative and quantitative sources. These experiences will lay the groundwork for students implementation of analysis of their own data for their Action Research inquiry projects. Cross listed: EDMS 244

EDSS 264. Critical Multiculturalism for Racial/Social Justice Education-Secondary. 3 Units
Prerequisite(s): Admission to the MA in Teaching with Single Subject Teaching Credential Program.
Term Typically Offered: Fall, Spring

This course serves as an introduction to Critical Multiculturalism, Racial/Social Justice pedagogy, and Anti-Bias education. The course will provide a critical perspective for analyzing the purposes and processes of U.S. public schooling. Students will examine the socio-historical political contexts of public schools and society, educational/learning theories, philosophical educational foundations, notions of culture, community, and educational practice. Teaching modalities will include lectures, whole group discussions, small group work and presentations, and on-line fieldwork assignments.

Prerequisite(s): Admission to MA in Teaching with Single Subject Teaching Credential program.
Term Typically Offered: Fall, Spring

This course serves as an introduction to Critical Multiculturalism, Racial/Social Justice pedagogy, and Anti-Bias education. The course will provide critical perspective for analyzing the purposes and processes of U.S. public schooling in a Linked Learning context. Students will examine the socio-historical political contexts of public schools and society, educational/learning theories, philosophical educational foundations, notions of culture, community, and educational practice. Teaching modalities will include lectures, whole group discussions, small group work and presentations, and on-line fieldwork assignments.

EDSS 265. Advanced Fundamentals of Teaching. 2 Units
Prerequisite(s): EDSS 365

Term Typically Offered: Fall, Spring

Extends learning from EDSS 365 with deeper examination of the relationship between elements of teaching and instructional organization needed to effectively teach in culturally and linguistically diverse and inclusive secondary classrooms through the use of backward design, Universal Design for Learning, differentiated instruction and assessment. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as teachers through exploration of curriculum development frameworks, long-and short-term planning approaches, and specific theories for instructional practice.

EDSS 265A, B, C, D. Advanced Fundamentals of Teaching, Workshop. 1 Unit
Prerequisite(s): EDSS 365A and EDSS 365B
Corequisite(s): EDSS 265C
Term Typically Offered: Fall, Spring

Extends learning in EDSS 365A, B and EDSS 265C by deepening knowledge about the relationship between elements of teaching and instructional organization. Focus on effective teaching for culturally and linguistically diverse and inclusive secondary classrooms through the use of backward design, Universal Design for Learning, differentiated instruction and assessment. Instructional framework will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as a teacher including application of curriculum development theories, long-and short-term planning frameworks and specific theories.

EDSS 265L. Advanced Fundamentals of Teaching-Linked Learning. 2 Units
Prerequisite(s): EDSS 365L
Term Typically Offered: Fall, Spring

Extends learning from EDSS 365 with deeper examination of the relationship between elements of teaching and instructional organization needed to effectively teach in culturally and linguistically diverse and inclusive secondary classrooms through the use of backward design, Universal Design for Learning, differentiated instruction and assessment. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as teachers through exploration of Linked Learning curriculum development frameworks, long-and short-term planning approaches, specific theories for instructional practice.
EDSS 266. Advanced Single Subject Seminar. 2 Units
Prerequisite(s): EDSS 366
Term Typically Offered: Fall, Spring

Second of two-course series. Provide structured opportunities for candidates to discuss, analyze, reflect upon data gathered from field; support completion of TPA. Further study of policies, school law, resources, strategies, routines, and activities needed for productive environments in classrooms as locations for student engagement/learning. Special emphasis on English Language Development, students with special needs, and specific management/implementation of activities. Course assignments/activities integrated with other core courses. Credit/No Credit

EDSS 266L. Advanced Single Subject Seminar, L. 2 Units
Prerequisite(s): EDSS 366L
Term Typically Offered: Fall, Spring

Second of two-course series. Provide structured opportunities for candidates to discuss, analyze, reflect upon data gathered from field; support completion of TPA. Further study of policies, school law, resources, strategies, routines, and activities needed for productive environments in classrooms as locations for student engagement/learning. Special emphasis on English Language Development, students with special needs, and specific management/implementation of Linked Learning activities (e.g. multidisciplinary integrated units of study). Course assignments/activities integrated with other core courses. Credit/No Credit

EDSS 279A. Method and Materials for Teaching Secondary English Learners, A. 1.5 Units
Prerequisite(s): EDUC 170; Admission to the Single Subject Credential program
Term Typically Offered: Fall, Spring

This course is the first of a two-course series. Introduces candidates to a repertoire of theory-based methods needed to facilitate and measure their own students’ growth in English language development (ELD) as well as create learning environments which promote content area learning through the use of Specially Designed Academic Instruction in English (SDAIE). Candidates acquire knowledge and skills in methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 279B. Methods and Materials for Teaching Secondary English Learners, B. 1.5 Units
Prerequisite(s): EDSS 279A
Term Typically Offered: Fall, Spring

Second course in a two-course series. Candidates expand their repertoire of theory-based methods to facilitate and measure their own students’ growth in English language development (ELD) as well as create learning environments which promote content area learning through the use of Specially Designed Academic Instruction in English (SDAIE). Candidates deepen knowledge and skills related to methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 279C. Method and Materials for Teaching Secondary English Learners, C. 1.5 Units
Prerequisite(s): EDUC 170; Admission to the Single Subject Credential Program
Term Typically Offered: Fall, Spring

The first of two-course series. Introduces candidates to theory-based methods to facilitate/measure their own students’ growth in English language development and create learning environments which promote content area learning through Specially Designed Academic Instruction in English (SDAIE). Specific instruction given to develop skills in Linked Learning settings and learning activities therein. Candidates acquire knowledge/skills in methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 279D. Method and Materials for Teaching Secondary English Learners, D. 1.5 Units
Prerequisite(s): EDSS 279C
Term Typically Offered: Fall, Spring

Second in two-course series. Candidates expand repertoire of theory-based methods to facilitate/measure students’ growth in English language development and create learning environments which promote content area learning through Specially Designed Academic Instruction in English (SDAIE). Specific instruction given to develop skills in Linked Learning settings and learning activities therein. Candidates deepen knowledge and skills related to methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 282. Strategies for Inclusive Classrooms: Single Subject. 3 Units
Prerequisite(s): Admission into a teacher preparation program or an MA in Teaching with Multiple/Single Subject Teaching Credential program
Term Typically Offered: Fall, Spring

This course provides single subject and special education candidates with dispositions, knowledge, and skills needed to serve students with disabilities in general education classrooms. Strategies specific to students in their least restrictive environment will be covered emphasizing Universal Design for Learning, Multi-Tiered Systems of Support, social-emotional learning, co-teaching, differentiated instruction, roles and responsibilities of special/general education teachers, peer mediated learning strategies, modifications of standards and learning outcomes for students with disabilities, and assistive technology (low and high tech adaptations). Cross listed: EDSP 293

EDSS 291. Foundations in Career Technical Education: Bridging Industry to the Classroom. 3 Units
Term Typically Offered: Fall, Spring

This course includes identification of current Career Technical Education practices, building an understanding of industry sectors, career pathways and standards, development of advisory committees, and exploration of Career Technical Student Organizations (CTSOs). Candidates will prepare standards-based lesson plans, units of instruction in career exploration, develop recruitment tools, and identify and teach 21st Century Skills. Candidates will identify funding sources, necessary equipment, and plans for safe storage. They will develop plans to incorporate work based learning into their program.
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| EDSS 299.   | Special Problems: Single Subject | 1 - 3 | Fall, Spring           |                | Individual projects for Single Subject credential candidates at graduate/credential level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and the Department Chair.  

**Note:** This course may be repeated for up to 9 units of credit. Credit/No Credit |
| EDSS 364.   | Advanced Critical Multiculturalism for Racial/Social Justice Education- Secondary | 2 | Fall, Spring           | Admission into the Single Subject Credential Program; EDSS 264. | This course continues a critical analysis of the purposes and processes of public schooling, including Critical Multiculturalism, Racial/Social Justice pedagogy, and Anti-Bias education. Students will examine the sociopolitical intersection of public and society, educational theories, philosophies, notions of culture, community, and educational practice through self-examination of dispositions related to gender, sexuality, race, social class, language, religion/spirituality and ability. Term Typically Offered: Fall, Spring |
| EDSS 364D.  | Advanced Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop | 1 | Fall, Spring           | Admission into the Single Subject Credential Program; EDSS 264A. | Further study of the purposes and processes of public schooling. Candidates develop a philosophy of education for teaching in a multicultural, multilingual, and democratic society through self-examination of dispositions related to gender, sexuality, race, social class, language, religion/spirituality and ability. Modalities include discussions, small group tasks, group projects and simulations. Term Typically Offered: Fall, Spring |
| EDSS 364L.  | Advanced Critical Multiculturalism for Racial/Social Justice Education- Secondary Linked Learning | 2 | Fall, Spring           | EDSS 264L      | This course continues a critical analysis of the purposes and processes of public schooling in Linked Learning settings, including Critical Multiculturalism, Racial/Social Justice pedagogy, and Anti-Bias education. Students will examine the sociopolitical intersection of public schools and society, educational theories, philosophies, notions of culture, community, and educational practice through self-examination of dispositions related to gender, sexuality, race, social class, language, religion/spirituality and ability. Term Typically Offered: Fall, Spring |
| EDSS 365.   | Fundamentals of Teaching | 3 | Fall, Spring           | Admission into the Master of Arts in Teaching with a Single Subject Credential program | This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive secondary classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in a Anti-Racist/Social Justice paradigm. Emphasis will be on application of theories and frameworks learned in EDSS 365A, with a focus on students' development as a teacher, curriculum development, long and short-term planning, and assessing student learning. Discussion, small group work and simulations. |
| EDSS 365A.  | Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop | 1.5 | Fall, Spring           | Admission into Single Subject Teacher Preparation Program | This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive secondary classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will be on application of theories and frameworks learned in EDSS 365A, with a focus on students' development as a teacher, curriculum development, long and short-term planning, and assessing student learning. Discussion, small group work and simulations. |
| EDSS 365L.  | Fundamentals of Teaching- Linked Learning | 3 | Fall, Spring           | Admission to the Master of Arts in Teaching with a Single Subject Credential program | This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive Linked Learning secondary classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in an Anti-Racist/Social Justice paradigm. Emphasis will include students' development as a teacher, curriculum development, long and short-term planning, and specific theories for instructional practice in Linked Learning settings. Term Typically Offered: Fall, Spring |
| EDSS 366.   | Single Subject Seminar | 3 | Fall, Spring           | Admission to the MA in Teaching with Single Subject Teaching Credential Program | First part of a 2-course sequence that provides structured opportunities for student teachers to discuss, analyze, and reflect upon data gathered from their field placements. Attention given to policies, school law, resources, strategies, routines, and activities that contribute to the productive management of the school and classroom as locations for student engagement and learning. Special emphasis will be on English Language Development and students with special needs. Course assignments and activities are integrated with other core courses. Credit/No Credit |
| EDSS 366L.  | Single Subject Seminar, L. | 3 | Fall, Spring           | Admission to the MA in Teaching with Single Subject Teaching Credential program | First part of a 2-course sequence that provides structured opportunities for student teachers to discuss, analyze, and reflect upon data gathered from their field placements in Linked Learning settings. Attention given to policies, school law, resources, strategies, routines, and activities that contribute to the productive management of the Linked Learning school and classroom as locations for student engagement and learning. Special emphasis will be on English Language Development and students with special needs. Credit/No Credit |
EDSS 378. Secondary Science Methods for In-Service Teachers. 3 Units
Prerequisite(s): California Teaching Credential (Multiple Subjects or Single Subject)
Term Typically Offered: Fall, Spring, Summer
This course provides instruction to organize instructional materials, techniques of presentation and methods of evaluation for secondary school mathematics. It will be based on the research of the National Council of Teachers of Mathematics (NCTM) and Mathematics Framework for California Teachers. The participants will learn how to apply current research to their practice through development of lessons and assessment tools. They will investigate a variety of instructional strategies that develop conceptual understanding, procedural fluency, and problem-solving and reasoning skills.

EDSS 378B. Secondary Science Methods for In-Service Teachers. 3 Units
Prerequisite(s): California Teaching Credential (Multiple Subjects or Single Subject)
Term Typically Offered: Fall, Spring, Summer
This course is for teachers who hold a teaching credential and are pursuing an additional California Single Subject Credential in an area of science. It will introduce theoretical bases and practical applications of science pedagogy in secondary classrooms. Participants will investigate and apply instructional strategies aligned with the state-adopted K-12 academic content standards (Next Generation Science Standards) to ensure equitable access for all students to science, and engage students to reflect the intellectual rigor of scientific inquiry.

EDSS 383A. Methods in English Education, A. 1.5 Units
Prerequisite(s): Admission to the teacher preparation program Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring
A critical course for English teaching preparation, educational experiences will promote understandings, attitudes and competencies necessary for effective instruction in English Language Arts and literacy in grades 7-12. Candidates acquire skills related to literacy assessment, text selection, and lesson/unit planning designed to meet the needs of all learners, including mainstream populations, English learners and students with special needs. Students are provided with opportunities to acquire skills, knowledge, practice, and experience planning for and teaching secondary English language arts and literacy. Lecture and discussion.

EDSS 383B. Methods in English Education, B. 1.5 Units
Prerequisite(s): EDSS 383A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring
A critical course for English teaching preparation, educational experiences will promote understandings, attitudes and competencies necessary for effective instruction in English Language Arts and literacy in grades 7-12. Candidates acquire skills related to literacy assessment, text selection, and lesson/unit planning designed to meet the needs of all learners, including mainstream populations, English learners and students with special needs. Students are provided with opportunities to acquire skills, knowledge, practice, and experience planning for and teaching secondary English language arts and literacy. Lecture and discussion.

Note: This course is the second in a two course series
EDSS 384A. Instruction and Assessment of Academic Literacy, A.  1.5 Units
Prerequisite(s): Admission to the Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

Introduction to foundational understandings, attitudes and competencies necessary for effective instruction of academic language and literacy in 7-12 content area classrooms. Candidates acquire skills related to literacy assessment, text selection, and lesson planning designed to meet the needs of all learners, including mainstream population, English learners and students with special needs. Candidates develop an awareness of what constitutes effective content literacy instruction and a beginning repertoire of strategies to help students meet the demands of content reading, writing and discussion. Lecture and discussion.

EDSS 384B. Instruction and Assessment of Academic Literacy, B.  1.5 Units
Prerequisite(s): EDSS 384A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second course in a two course series on understanding effective instruction of academic language and literacy in 7-12 content area classrooms. Candidates hone skills in literacy assessment, text selection, and lesson planning to meet the needs of all learners, including mainstream populations, English learners and students with special needs. Application of content literacy instruction (pre, during and post reading and writing strategies). Enhanced knowledge of strategies to support students’ attainment of the demands of content reading, writing and discussion. Lecture, discussion.

EDSS 385A. Methods in World Language Education, A.  1.5 Units
Prerequisite(s): Admission into the Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

This course is designed for candidates who are preparing to teach world languages in secondary school settings in California public schools. Candidates will learn about current theoretical bases for second-language acquisition and how such theories inform classrooms practice. Candidates have introductory opportunities to practice principles of learning from which teachers can draw as they make decisions about instruction. Lecture, discussion and simulation. Cross Listed: WLL 385A; only one may be counted for credit.

EDSS 385B. Methods in World Language Education, B.  1.5 Units
Prerequisite(s): EDSS 385A or WLL 385A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

This course continues learning initiated in EDSS 385A and is designed for candidates who are preparing to teach world languages in secondary school settings in California public schools. Candidates will learn additional methodologies for planning and delivering instruction in world languages. Candidates will practice instructional strategies and will design lessons. Candidates will implement assessments that capture student learning of key world language outcomes, including oral language and written language development and reading fluency. Strategies for teaching cultural appreciation are also embedded. Lecture, discussion and simulation. Cross Listed: WLL 385B; only one may be counted for credit.

EDSS 386A. Methods in Mathematics Education, A.  1.5 Units
Prerequisite(s): Admission to Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First part of a two-course sequence that provides instruction to organize instructional materials, techniques of presentation and methods of evaluation for secondary school mathematics. Articulated with student teaching and should be taken the same semester. Activities include discussions, presentations and demonstrations.

EDSS 386B. Methods in Mathematics Education, B.  1.5 Units
Prerequisite(s): EDSS 386A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second part of a two-course sequence that provides continuation of organization of instructional materials, techniques of presentation and methods of evaluation for secondary school mathematics. Articulated with student teaching and should be taken the same semester.

EDSS 387A. Methods in History/Social Science Education, A.  1.5 Units
Prerequisite(s): Admission into the Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First of a two-part field and lecture-based course which will prepare candidates to teach history-social science content and analysis skills to secondary students, particularly those who are culturally and linguistically diverse, have special needs, or are English learners. Focus on identifying and evaluating curricular resources and instructional strategies that emphasize the active use of critical thinking skills and the development of civic values for informed participation in a democratic society.

EDSS 387B. Methods in History/Social Science Education, B.  1.5 Units
Prerequisite(s): EDSS 387A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second of a two-part field and lecture-based course which will prepare candidates to teach history-social science content and analysis skills to secondary students, particularly those who are culturally and linguistically diverse, have special needs, or are English learners. Focus on implementing curriculum and instructional strategies and assessing student mastery of grade-level content and skills that are central to history-social science disciplines.

EDSS 388A. Methods in Science Education, A.  1.5 Units
Prerequisite(s): Admission to Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First part of a two-course sequence that provides introduction to organization of instructional materials, techniques of presentation, and methods of evaluation for secondary school science. Articulated with student teaching and should be taken the same semester. Activities include discussion, presentations and demonstrations.
EDSS 388B.  Methods in Science Education, B.  1.5 Units
Prerequisite(s): EDSS 388A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second part of a two-course sequence that provides introduction to organization of instructional materials, techniques of presentation, and methods of evaluation for secondary school science. Articulated with student teaching and should be taken the same semester. Activities include discussion, presentations and demonstrations.

EDSS 392.  Teaching Strategies for the CTE Classroom: Supporting All Students.  3 Units
Term Typically Offered: Fall, Spring

This course merges the professional world of industry and the profession of teaching, in an effort to support an industry professional to transition into an education professional. It does this by examining teaching strategies in general and specifically how to apply those strategies to a classroom filled with diverse learners, including students with special needs and English language learners. This is accomplished through reflections, discussions, interviews, observations, readings, and field-based assignments.

EDSS 393.  Assessment for Instruction in the CTE Classroom.  0 Units
Term Typically Offered: Fall, Spring

In this course, candidates identify student prior knowledge and use assessments to adapt instruction. They use differentiated instructional strategies to make content accessible to neurodiverse learners and English learners. Candidates reflect on and evaluate the overall effectiveness of their curriculum plan. They understand and honor legal and professional obligations and appropriately use computer-based technology. In the capstone assignment, candidates plan for and teach a unit in the classroom, using assessment data to reflect upon the effectiveness of their instruction.

EDSS 401.  Observation and Participation in Secondary Classrooms.  2 Units
Prerequisite(s): Admission to Teacher Preparation Program
Teacher candidates will observe and participate as teaching assistants in public school secondary classrooms.
Credit/No Credit

EDSS 440.  Work-Based Learning Field Experience.  2 Units
Prerequisite(s): Admission to the Single Subject Credential program
This fieldwork course focuses on the work-based learning core component of Linked Learning/Career Pathways. After an orientation to work-based learning, its function in Linked Learning/Career pathways, and how it can be integrated into core curriculum, candidates will experience a non-paid, one-week internship at a worksite associated with one of the 15 major CA industries. Candidates develop work-based knowledge and experiences to be applied when they create a subject-specific curricular unit incorporating their work-based learning. Fieldwork, discussion.

EDSS 470A.  Field Experience: Secondary.  6 Units
Prerequisite(s): Acceptance into the Sacramento State Single Subject Teaching Credential Program.
Term Typically Offered: Fall, Spring

Provides candidates with field experiences of increasing complexity and responsibility as they engage in cycles of teaching. Public school assignment in a secondary school serving culturally and linguistically diverse community for one university semester with three periods of responsibility: English learner class, single subject content class, and an observation/consultation period. Observations and supervised teaching experiences will be systematic and structured.
Credit/No Credit

EDSS 470B.  Student Teaching: Secondary.  12 Units
Term Typically Offered: Fall, Spring

Provides candidates with field experiences of increasing complexity and responsibility as they engage in cycles of teaching. Experiences will be systematic and structured. Student teachers will be placed for the public school's semester at a school serving linguistically and culturally diverse students. Candidates become more independent with primary responsibility for cycle of teaching with equivalent of three periods supervised teaching and one consultation period.
Credit/No Credit

EDSS 471A.  Elementary Physical Education Student Teaching.  5 Units
Prerequisite(s): Acceptance into the Sacramento State Single Subject Teaching Credential Program.
Term Typically Offered: Fall, Spring

The elementary physical education teacher will be placed in a setting where he/she is able to plan, implement, promote and assess a developmentally appropriate physical education program that meets the diverse needs, interests and abilities of elementary school children, K-6.
Credit/No Credit

EDSS 471B.  Secondary Physical Education Student Teaching.  4 Units
Prerequisite(s): The successful completion of EDTE 471A.
Term Typically Offered: Fall, Spring

The secondary physical education student teacher will be placed in a setting where he/she is able to plan, implement, promote and assess a developmentally appropriate physical education program that meets the diverse needs, interests and abilities of secondary school children, 6-12.
Credit/No Credit

EDSS 474A.  Field Experiences in Secondary Schools.  6 Units
Prerequisite(s): Admission into the Single Subject Teaching Credential Program
Term Typically Offered: Fall, Spring

Provides candidates with field experiences of increasing complexity and responsibility as they engage in cycles of teaching. Public school assignment in a secondary school serving culturally and linguistically diverse community for one university semester with three periods of responsibility: English learner class, single subject content class and an observation/consultation period. Observations and supervised teaching experiences will be systematic and structured.
Credit/No Credit
The course introduces undergraduate students to a career working with children and youth with disabilities and their families. Students will explore the different career opportunities in the field of special education, the skills of an education specialist teacher, and credential requirements for becoming an educator working with students with disabilities including advocacy, reflection, organization, empathy, and credential program pre-requisites. Students will complete biographical readings, a career plan, and at least 30 hours of fieldwork with an education specialist teacher.

This course provides analysis of historical, philosophical, legal, and ethical foundations of special education and emerging issues in the disability rights/social justice movement to provide free and appropriate education (FAPE) for children and youth with diverse linguistic, cultural, socio-economic, physical, mental, social, emotional characteristics in the least restrictive environment (LRE). Legislation (e.g., IDEA 2004, ESSA, Section 504, ADA) and current legal requirements and best practices in identification, eligibility, assessment, IFSP/IEP/ITP development and implementation, and inclusive educational service delivery are examined.

This seminar introduces Early Childhood Special Education (ECSE) candidates to their fieldwork experiences, technology, and development as an ECSE teacher. Candidates will examine their own teacher identity; identify anti-bias educational practices; analyze and reflect upon models of effective teaching and assessment; and develop technology, reflection, and critical thinking skills to engage in the teaching profession.

Overview of ECSE historical, philosophical, theoretical/empirical, and legal bases for family centered, relationship based special education services. Emphasis is on developing cross-cultural competence and a strengths-based, student-centered approach to empowering families and advocating for students with disabilities. Students will develop skills required to build and maintain collaborative relationships through effective communication and teaming with families, students, professional colleagues, and community members. These skills will be applied in the context of school-family-community partnerships, professional partnerships, person-centered planning/future planning and IFSP/IEP development.
EDSP 205. Methods in Access and Inclusion in the GE Curriculum: Students with Extensive Support Needs. 3 Units
Prerequisite(s): EDSP 119, EDSP 206, EDSP 235, EDSP 220
Term Typically Offered: Fall, Spring

The focus of this course will be on the following three areas: 1) the processes for developing modified IEP goals which are based on the general education standards for all core curriculum as well as other individual information; 2) collaboration with general education teachers in the development of participation and support plans for inclusion in the general education classroom; and, 3) instructional strategies and adaptations which will enhance success across curricular areas for students with extensive support needs.

EDSP 206. Collaborative Program Planning with Families, Professionals, and Communities. 3 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or advisor approval
Term Typically Offered: Fall, Spring

Students will develop skills in the areas of: family collaboration; school and community collaboration in the context of IEP development and school partnerships; cross-cultural competence; communication; person-centered planning/future planning, partnering with families; transdisciplinary teaming to develop the IEP and the ITP; and facilitating social relationships and friendships as part of the school experience.

EDSP 207. Secondary/Post-secondary methods and transition planning for Students with Extensive Support Needs. 2 Units
Prerequisite(s): EDSP 119
Corequisite(s): EDSP 413 or EDSP 414
Term Typically Offered: Fall, Spring

Students will develop knowledge and skills related to strategies for including students within the middle and high school environment. Students will develop skills in community-based instruction transition planning, in addition to designing outcomes and supports within the general education curriculum. Students will also gain knowledge and skills related to vocational and supported employment, and preparation for work after high school, and how to facilitate a successful transition to post-secondary education, supported living, and supported employment.

EDSP 208. Positive Behavioral Supports and Evidence-Based Practices for Youth with Autism and Related Issues. 3 Units
Prerequisite(s): EDSP 119
Term Typically Offered: Fall, Spring

Students will develop competencies in evidence-based and promising practices in assessment, interventions and instructional strategies for children and youth with autism spectrum disorder (ASD) and those with mental health concerns and/or dual diagnosis (severe behavior or emotional challenges and developmental, intellectual, sensory, and/or motor disabilities) in the natural contexts of general education classrooms, other school settings, home and community. Students will conduct a functional behavioral assessment and develop and implement a positive behavior support for a student with challenging behaviors.

EDSP 209. Developing Augmentative & Alternative Communication Systems: Assessment and Intervention. 3 Units
Prerequisite(s): Admission to the MAT plus Education Specialist Credential Program.
Term Typically Offered: Fall, Spring

Participants will learn: a) how to assess communicative forms from nonsymbolic to symbolic and unintentional to sophisticated in students with disabilities; b) how to collaborate with audiologists, vision specialists, physical, occupational, and speech therapists related to communication; c) to select from the range of light tech to high tech augmentative communication systems and related assistive technology, based on assessment; d) how to develop communication instructional plans; and, e) how to implement instruction embedded across multiple environments and with multiple partners.

EDSP 210. Assessment and Evaluation in Early Childhood Special Education. 3 Units
Prerequisite(s): Admission to the MA in Special Education Teaching (Early Childhood Special Education)
Term Typically Offered: Fall, Spring

This course integrates family-centered and strengths-based approaches in early childhood special education into the assessment and evaluation process. Content will focus on developing quality practices in early childhood assessment including using a range of culturally, linguistically, and ability appropriate tools and techniques; parent–professional collaboration; transdisciplinary team assessment; assessment reporting; and translating results into intervention planning. Students will demonstrate skills in the assessment process including planning, collecting, interpreting, and communicating assessment information about infants, and young children with disabilities.

EDSP 211. Curriculum, Intervention Strategies, and Environments in ECSE I: Infants & Toddlers. 3 Units
Prerequisite(s): Admittance to the Master of Arts in Special Education Teaching (Early Childhood Special Education)
Term Typically Offered: Fall, Spring

The focus of this course is acquisition of knowledge and skills to support families and other caregivers in facilitating development for infants and toddlers at risk or with disabilities. Students will collaboratively plan and implement curriculum and intervention strategies for infants, toddlers and families. These strategies may be utilized in a range of natural learning environments including home, childcare, and community programs.

EDSP 212. Inclusive Curriculum, Intervention Strategies, and Environments in ECSE II: Preschool & Kindergarten. 3 Units
Prerequisite(s): Admittance to the Education Specialist Credential Program: Early Childhood Special Education
Term Typically Offered: Fall only

Candidates develop the skills and mindsets necessary to design and implement developmentally appropriate play-based environments and instruction for young children with disabilities in school-based learning environments including inclusive preschools and kindergarten programs. Using a tiered approach, candidates plan and implement universally designed lessons and create embedded instruction plans that require intentionally planning supports, assessments, and evidence-based interventions within daily routines and activities to ensure all students learn and belong.
EDSP 213. Early Language and Literacy Development, Instruction, and Intervention in ECSE. 3 Units
Prerequisite(s): Admission to the Master of Arts in Teaching with Early Childhood Special Education credential program
Term Typically Offered: Fall, Spring
Course examines theories and historical context of language and literacy development and instruction in young children from infancy through kindergarten with an emphasis on English Learners and children with disabilities. Candidates will learn to create and implement integrated instructional units and lesson plans that teach early literacy through play-based centers, math, science, and the arts while supporting individual students with accommodations and embedded instruction. Candidates examine the role of technology, assistive technology, and authentic assessment to enhance and guide instruction.

EDSP 216. Understanding the Implications of Developmental Diversity in Children and Youth. 2 Units
Prerequisite(s): Admission to an Education Specialist Credential Program.
Term Typically Offered: Fall, Spring
Using a critical disability theory perspective, this course explores: 1) atypical development across areas (e.g., cognitive, social, physical, linguistic) due to prenatal, perinatal, and early childhood developmental risk factors; 2) childhood development theories and how they support educators' understanding of children, families, and developmentally appropriate practices; and 3) service delivery models and key transitions across the lifespan.

EDSP 217. Foundations of Positive Behavioral Supports: Creating Safe and Engaging Learning Environments. 3 Units
Prerequisite(s): Admission to the MA in Special Education Teaching
Term Typically Offered: Fall, Spring, Summer
Students will learn the foundations of positive behavioral supports as a multi-tiered systems of supports for children and youth with mild to extensive support needs in preschool, elementary and secondary schools with an emphasis on class-wide and school-/program-wide interventions to create safe and engaging learning environments. The course also examines collaboration with families and other professionals (e.g., paraprofessionals, general education teachers) to effectively support students' behavior and learning and provides an overview of functional behavior assessment and individual behavioral supports.

EDSP 218. Advanced program planning/instruction: Students with Extensive Support Needs/Multiple Disabilities. 3 Units
Prerequisite(s): EDSP 209, EDSP 216.
Term Typically Offered: Fall, Spring
This course focuses on 3 primary areas: 1) evidence-based practices for developing high-quality individualized educational plans for children and youth, from early childhood to young adulthood, with extensive support needs (ESN) - including students with multiple disabilities, severe intellectual disabilities, deaf-blindness, sensory and orthopedic disabilities; 2) collaboration with family members, related service professionals, general education teachers, and other community services; and, 3) strategies, adaptations, and technologies, for increasing positive outcomes for students with ESN in inclusive classrooms.

EDSP 220. Language and Literacy in Inclusive Classrooms I. 3 Units
Term Typically Offered: Fall, Spring
This course provides candidates with the evidence based principles and systematic and explicit techniques to develop phonological awareness, phonics, concepts about print, oral and written language, and word recognition strategies. Candidates will learn techniques specific to assessing a student in reading and applying the information to assist the student with reading difficulties. Accommodations and modifications for students with mild, moderate, and severe disabilities will be emphasized.

EDSP 221. Language and Literacy in Inclusive Classrooms II. 3 Units
Prerequisite(s): EDSP 220
Term Typically Offered: Fall, Spring
Course provides candidates with evidence based principles, systematic and explicit techniques, procedures in reading fluency, comprehension, and vocabulary development. Candidates will learn literal and higher level comprehension strategies that assist students in understanding narrative and expository text. Candidates will receive instruction on the principles, techniques, and procedures for teaching spelling, handwriting, and critical study skills. Accommodations and modifications for students with mild, moderate and severe disabilities will be emphasized.

EDSP 225. Assessment and Evaluation for Students with Mild to Moderate Support Needs. 3 Units
Prerequisite(s): EDSP 220, EDSP 221, EDSP 229
Term Typically Offered: Fall, Spring
Course examines relationship between assessment, curriculum, and instruction through application of formal and informal assessments to support curriculum and instructional development. Candidates administer and interpret norm-referenced, criterion-referenced, and curriculum-based instruments that assess academic achievement, social behavior, and emotional functioning. Candidates learn principles and strategies when collecting and interpreting qualitative and quantitative data from multiple sources. Authentic assessment strategies, specifically designed to support and inform instruction, are emphasized. Field based component included for administering, scoring, and analyzing results from assessments.

EDSP 225A. Assessment and Evaluation for Students with Mild/Moderate Disabilities. 2 Units
Prerequisite(s): Admittance to Mild/Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDSP 225B
Term Typically Offered: Fall, Spring
Candidates examine relationships between assessment, curriculum, and instruction through application of a variety of formal and informal assessments and curricula. Candidates administer and interpret norm-referenced, criterion-referenced, and curriculum-based instruments that assess academic achievement, social behavior, and emotional functioning. Candidates learn basic principles and strategies related to using and communicating results of a variety of assessment and evaluation approaches. Authentic assessment strategies, specifically designed to support and inform instruction, will be emphasized.
EDSP 225B. Assessment and Evaluation for Students with Mild/Moderate Disabilities Lab. 1 Unit
Corequisite(s): EDSP 225A
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 225A) in a setting serving students with mild/moderate disabilities.
Credit/No Credit

EDSP 229. Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities. 3 Units
Prerequisite(s): Admittance to Mild/Moderate, Moderate/Severe, Multiple Subjects, and Single Subject Credential programs or permission of respective special education advisors.
Term Typically Offered: Fall, Spring

Methods for designing and implementing instruction for students with mild/moderate disabilities. Topics include typical/atypical human development, resilience and protective factors, evidenced-based instructional strategies, designing and managing environments and materials, differentiated instruction, collaborative teams in designing and evaluating integrated services, technology (including assistive technology) to support access to general education curriculum, implementation of UDL, modifications and adaptations of state standards, components of IDEA and their implication for a multidisciplinary approach developing IEPs for special needs students included in general education classrooms.

EDSP 229B. Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities Lab. 1 Unit
Corequisite(s): EDSP 229
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 229) in a setting for students with mild/moderate disabilities who receive special education services. Students will verify multiple experiences across the age-span and in inclusive settings, agencies, and other natural environments.
Credit/No Credit

EDSP 230. Positive Behavior and Social-Emotional Supports for Students with Mild to Moderate Support Needs. 3 Units
Prerequisite(s): EDSP 217
Term Typically Offered: Fall, Spring

This course helps teacher candidates understand and support students who experience social, emotional, and behavior problems that negatively impact their school success and well-being. Teacher candidates will learn (a) how to address behavior challenges in classrooms; (b) how to identify and assess support needs from the function-based and trauma-informed perspective; (c) how to design and implement positive intervention and support that are evidence-supported and compliant with federal IDEA law; and (d) how to provide social emotional learning opportunities.

EDSP 230B. Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges Lab. 1 Unit
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential program, APE program, or permission of respective special education coordinator.
Corequisite(s): EDSP 230
Term Typically Offered: Fall, Spring

Comprehensive study and application of intervention strategies that enhance the quality of life for students with mild/moderate disabilities. Students will learn (a) how to design learning environments that prevent and reduce problem behaviors, (b) learn how to identify and assess problem behavior using functional behavioral methods, (c) learn how to design and implement positive behavioral support interventions which are in compliance with federal IDEA law, and (d) apply behavioral procedures on a systemic, school wide basis.

EDSP 231. Assistive and Instructional Technologies for Students with Mild to Moderate Support Needs. 2 Units
Prerequisite(s): Admission to the MAT with Education Specialist Mild to Moderate Support Needs Credential Program.
Term Typically Offered: Fall, Spring

Candidates design and enact technology-enhanced instruction by purposefully using three different types of educational technologies: assistive technologies, general instructional technologies, and content-specific instructional technologies. Technology-enhanced instruction and individualized educational programs involve teachers developing technological pedagogical content knowledge that weaves technology, pedagogy, and content expertise. This course provides learning opportunities for an array of applications, tools, and instructional practices.
Credit/No Credit

EDSP 232. Initial Seminar: Reflective Teaching Practice, Collaboration, & Communicative Competence. 1 Unit
Term Typically Offered: Fall, Spring

This initial seminar focuses on the critical practice of reflection as the heart of teaching. A highly effective special education teacher practices deliberate, purposeful, and metacognitive thinking to address the education of students with mild to moderate support needs in an inclusive environment. To prepare special education teachers for a changing world, teacher candidates need to understand theories of learning and their roles in teaching, develop curricular vision, communication skills, and respond to the diverse learning needs of students.

EDSP 233. Final Seminar: Mild to Moderate Support Needs. 1 Unit
Prerequisite(s): EDSP 232.
Corequisite(s): EDSP 472 or EDSP 473 (in the last time that either of these two courses is taken).
Term Typically Offered: Fall, Spring

Designed to allow the education specialist candidate teacher or intern to focus upon three overall areas: 1) problems and resolutions particular and general to their teaching assignment, 2) development of their Individual Development Plan by identifying their strengths and areas of growth for further study during the candidates Induction Program and 3) create a Personal Reflection Model to support the development of the Individual Development Plan.
Credit/No Credit
EDSP 234. Seminar II: Early Childhood Special Education. 1 Unit
Prerequisite(s): EDSP 200
Corequisite(s): EDSP 475 or EDSP 476 or EDSP 478
Term Typically Offered: Fall, Spring, Summer

This seminar provides Early Childhood Special Education (ECSE) candidates with opportunities to engage in reflective conversations about their early fieldwork experience and development as a teacher with regard to program competencies. With support of their colleagues and instructor, candidates will analyze their own teaching practice and pedagogy, complete critical teaching tasks relevant to their fieldwork, and critically analyze issues in the field.
Credit/No Credit

EDSP 235. Curriculum and Instructional Methods for students with Extensive Support Needs. 3 Units
Prerequisite(s): Admittance into the MAT in Special Education (Extensive Support Needs)
Term Typically Offered: Fall, Spring

This is the first instructional methods course in the masters and specialist credential program for students with extensive support needs (ESN). Teacher candidates will learn to use the concepts of universal design for learning (UDL) and understanding by design (UbD) to create units of instruction in the core curriculum; various methods of progress monitoring; and, how to embed individualized participation plans and systematic instructional plans unique to individual learners with extensive support needs within general education and special education classrooms.

EDSP 236. Pro-Seminar in Teaching Students with Extensive Support Needs. 1 Unit
Corequisite(s): Any Mild-Moderate Support Needs field experience or intern teaching course
Term Typically Offered: Fall, Spring

This course addresses the following competencies: evaluating ethical principles and standards of special education practice; conducting effective meetings and collaborative problem-solving with families and colleagues; creating and carrying out an individualized positive behavioral support plan with the support of the school team and family; analyzing a school’s current behavioral support system and developing a recommended plan for more effective school-wide positive behavioral support; and, effective strategies for coaching and providing training to paraprofessional staff.
Credit/No Credit

EDSP 237. Transition Strategies for Students with Mild to Moderate Support Needs. 3 Units
Term Typically Offered: Fall, Spring

Candidates will examine legal mandates specific to transition planning and implementation, and evaluate transitional life experiences for students with mild/moderate disabilities across the lifespan. Candidates will explore and implement social skills, and career and vocational program planning for secondary students with Mild/Moderate disabilities. Planning will include the student, community services, and other community resources such as parents and various professionals that will lead to increased student learning with career goals and objectives to support their transition to post-school settings.

EDSP 237B. Transition Strategies for Students with Mild/Moderate Disabilities Lab. 1 Unit
Corequisite(s): EDSP 237.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 237) in inclusive setting for students with mild/moderate disabilities.
Credit/No Credit

EDSP 238. Culminating Seminar for Education Specialist Candidates. 3 Units
Term Typically Offered: Fall, Spring

Provides structured opportunities for Education Specialist teaching candidates who are in their culminating student/intern teaching experience to discuss, analyze, and reflect on their students’ learning to support completion of Special Education Teaching Performance Assessment (TPA). Candidates will interpret, analyze, and complete prompts for all TPA tasks in preparation for the submission of their TPA teaching event. Additionally, candidates will implement their final fieldwork tasks to demonstrate critical skills of an education specialist. Pre-requisite: EDSP 200 or final semester in the MMSN or ESN credential program Co-Requisite: EDSP 477 or EDSP 478 or EDSP 415 or EDSP 422 or EDSP 472 or EDSP 473 or approval of program coordinator.
Credit/No Credit

EDSP 250. Education Research. 3 Units
Prerequisite(s): Advancement to Candidacy for Special Education concentration; passing WPG exam for all other concentrations.
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Classified students are encouraged to take this course early in their graduation programs.

EDSP 251. Education in a Democratic, Pluralistic Society. 3 Units
Prerequisite(s): Passing WPG exam
Term Typically Offered: Fall, Spring

Advanced study of social and psychological issues which need to be considered in education relating to the client, the educator, the community and society. Addresses implications of theories of learning, assessment, individual differences and social/political influences.

EDSP 276A. Education of Students with Emotional and Behavioral Disorders. 2 Units
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential or M.A. in Education programs and EDSP 230 or equivalent
Corequisite(s): EDSP 276B
Term Typically Offered: Fall, Spring

Concentrate on the assessment, characteristics, interventions and classroom strategies, which uniquely address the educational needs of students with emotional and behavioral disorders. Students will review current laws, policies and selected literature specific to students identified as EBD and their families. Strategies to create and promote collaborative partnerships with parents, mental health representatives and/or other service providers will be presented.
EDSP 276B. Education of Students with Emotional and Behavioral Disorders - Lab. 1 Unit
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential or M.A. in Education programs and EDSP 230 or equivalent
Corequisite(s): EDSP 276A
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 276A) in serving students with emotional and behavioral disorders. Students are required to participate in class visitations, agency visitations, and interviews.

EDSP 281. Critical Issues in Special Education Research and Practice. 6 Units
Prerequisite(s): Successful completion of Education Specialist Credential coursework and student teaching—Mild/Moderate Disabilities Credential, Moderate/Severe Disabilities Credential or Early Childhood Special Education Credential program
Term Typically Offered: Summer only

This course provides an introduction to Action Research in the field of special education. The overall goal is to improve teacher effectiveness in the classroom through research and develop teacher-researchers, producers and consumers of empirical knowledge. Students will develop research writing skills to understand problems of practice, critical issues, and policy in special education. The course is designed to facilitate connections between methodological paradigm and teaching practices related to doing action research and covers qualitative, quantitative, and mixed-methods research approaches.

EDSP 282. Methods in Research Design and Practice with Diverse Children, Youth, and Families. 3 Units
Prerequisite(s): EDSP 281
Term Typically Offered: Fall only

This course is the second course in the final research sequence taken by the candidates in the Masters of Arts in Teaching for all three special education fields. The focus of this course is four-fold: 1) deepening candidates’ knowledge of methods in both qualitative and quantitative research design intended for action research; 2) development of each candidate’s action research proposal; 3) preparing for Institutional Review Board (IRB); and 4) completing a draft of chapters 1, 2, and 3.

EDSP 283. Critical Analysis and Interpretation of Data within Diverse School and Community Contexts. 3 Units
Prerequisite(s): EDSP 281, EDSP 282
Corequisite(s): EDSP 500
Term Typically Offered: Spring only

This course focuses on students’ understanding and use of appropriate data analysis methods for teacher action research in diverse schools/communities. Students will learn to critically analyze and interpret data from qualitative, quantitative and mixed-methods sources by using theoretical knowledge or conceptual frameworks, and to present findings to inform teacher practices and support systems change/reform efforts to improve the lives of individuals with disabilities. Students also will analyze, write and present findings from their thesis research in written and oral/visual formats.

EDSP 290. Seminar for Culminating Experiences. 3 Units
Prerequisite(s): Approval of Culminating Experience Proposal or instructor permission.
Seminar to focus on topics/elements/expectations to be included in the culminating experiences (thesis, project, or comprehensive exam). Successful completion of the course requires completion of Chapters 1 and 2 of the thesis/project and the beginning of Chapter 3 for the MA thesis/project option or an exam petition to be approved by the departmental exam committee, including annotated bibliographies and position papers on the focal topics for the MA comprehensive exam option.

EDSP 292. Teaching English Learners with Disabilities. 3 Units
Term Typically Offered: Fall, Spring
Candidates will learn basic principles, strategies and procedures for teaching English Learners with disabilities. Compliance and legal issues related to English Learners identified with disabilities, including writing linguistically appropriate goals and objectives, and implementing culturally responsive strategies will be addressed. Systematic and explicit strategies for accommodating and modifying curricular materials for English Learners with disabilities in inclusive classrooms will be emphasized.

EDSP 292B. Teaching English Learners with Disabilities Lab. 1 Unit
Corequisite(s): EDSP 292
Term Typically Offered: Fall, Spring

Field-based practice lab will be a synthesis and application of course content (EDSP 292) in the implementation of culturally responsive, systematic and explicit strategies, and curricular material involved in teaching English Learners with disabilities in inclusive classrooms. Credit/No Credit

EDSP 293. Strategies for Inclusive Classrooms. 3 Units
Prerequisite(s): Admission into a teacher preparation program.
Term Typically Offered: Fall, Spring

Knowledge and skills of teaching students with learning differences in inclusive classrooms require effective use of specific integrated pedagogical moves from an asset-based approach. In addition, professional judgment and contexts matter when modifying these pedagogical moves to successfully address the needs of all students, including those with extensive support needs. This course prepares all teacher candidates in teaching students with most complex learning and behavioral challenges four high-leverage practices in inclusive education: collaboration, assessment, social/emotional/behavior, and instruction. Cross listed: EDSS 282/EDSP 293/EDMS 213

EDSP 297. Current Issues in Special Education. 3 Units
Prerequisite(s): Passing WPG exam
Term Typically Offered: Fall, Spring

Examines current issues in special education through review of selected journal articles, presentations by guest lecturers and class discussion. Students will be required to write a series of brief position papers in professional style on selected topics.
To receive a recommendation for their credential: professionalism, IEP development, curriculum, modifications and adaptations, systematic instruction, non-classroom/community instruction, facilitating friendships, augmentative and alternative communication, positive behavioral supports, teaching students with the most complex disabilities, and program management.
Credit/No Credit

EDSP 415. Student Teaching: Students with Extensive Support Needs. 8 Units
Prerequisite(s): EDSP 414 or EDSP 420
Term Typically Offered: Fall, Spring
This final semester Student Teaching placement is designed for credential candidates in the MA in Special Education Teaching Emphasis in Students with Extensive Support Needs. Candidates must demonstrate that they are at a proficient level in 11 identified areas, including: professionalism, IEP development, curriculum, modifications and adaptations, systematic instruction, non-classroom/community instruction, facilitating friendships, augmentative and alternative communication, positive behavioral supports, teaching students with the most complex disabilities, and program management.
Credit/No Credit

EDSP 420A. Multiple Subject Field Experience. 6 Units
Term Typically Offered: Fall, Spring
Initial Multiple Subject credential field experience, with integrated methods coursework, is a M-Th, half-day fieldwork requirement. Effective instruction and classroom management are the focus of the Initial Multiple Subject field experience. Candidates complete field experience in public school classrooms concurrently with integrated coursework. Field experiences focus primarily on observing model lessons and activities and on collaborative planning, implementing and assessing instruction for small groups of students.
Note: This is a full semester field experience in general ed. classrooms.
Credit/No Credit

EDSP 420B. Multiple Subject Student Teaching. 8 Units
Term Typically Offered: Fall, Spring
Final semester of a Multiple Subject credential student teaching with integrated methods coursework requires M-Th, full-day participation of the student. Emphasis on classroom teaching and further experience with community services. Candidates must meet the criteria for student teaching to be accepted to this course.
Credit/No Credit
EDSP 421. Intern Teaching I: Students with Extensive Support Needs. 9 Units

Prerequisite(s): EDSP 413
Term Typically Offered: Fall, Spring

This Intern Teaching placement is designed for credential candidates in the MA in Special Education Teaching ¿ Emphasis in Students with Extensive Support Needs. Candidates must demonstrate that they are at a developing proficiency level in 11 areas in order to move into the final semester of Advanced Intern Teaching: professionalism, IEP development, curriculum, modifications and adaptations, systematic instruction, non-classroom/community instruction, facilitating friendships, augmentative and alternative communication, positive behavioral supports, teaching students with the most complex disabilities, and program management.

Credit/No Credit

EDSP 422. Advanced Intern Teaching: Students with Extensive Support Needs. 9 Units

Prerequisite(s): EDSP 421
Term Typically Offered: Fall, Spring

This final semester Internship is designed for credential candidates in the MA in Special Education Teaching ¿ Emphasis in Students with Extensive Support Needs. Candidates must demonstrate that they are at a proficient level in 11 areas in order to receive a recommendation for their credential: professionalism, IEP development, curriculum, modifications and adaptations, systematic instruction, non-classroom/community instruction, facilitating friendships, augmentative and alternative communication, positive behavioral supports, teaching students with the most complex disabilities, and program management.

Credit/No Credit

EDSP 471. Mild to Moderate Support Needs Field Experience. 4 Units

Prerequisite(s): Admission to the MAT with Education Specialist Mild to Moderate Support Needs Credential Program.
Term Typically Offered: Fall, Spring

The first phase of fieldwork typically occurs in the second semester (M-Th, half day) in the credential program. This semester is designed for candidates who are prepared, educationally and emotionally, for a rigorous schedule of classes and student teaching in coming semesters.

Credit/No Credit

EDSP 472. Mild to Moderate Support Needs Student Teaching. 7 Units

Prerequisite(s): EDSP 471 or equivalent.
Term Typically Offered: Fall, Spring

Student teaching full day, M-Th, for the semester in a cooperating LEA District providing services for students with mild to moderate support needs. Cooperating teachers work with the University supervisor to support the candidate in completing the required assignments and competencies. An evaluation will be completed at the mid point and end of the semester.

Note: Application for student teaching is required prior to course enrollment.

Credit/No Credit

EDSP 473. Mild to Moderate Support Needs Intern Teaching. 9 Units

Prerequisite(s): All criteria related to recommendation for the intern credential and instructor approval.
Term Typically Offered: Fall, Spring

A credit/no credit directed internship in a district, county office of education, or program serving students with mild to moderate support needs. Candidates must meet the criteria for an internship to be accepted into to this course. A University supervisor will support the candidate in completing all required competencies. An evaluation will be completed at mid point and end of the semester.

Note: Application for Student Teaching and Intern Teaching Permit is required prior to course enrollment.

Credit/No Credit

EDSP 474. ECSE Early Fieldwork Experience I. 3 Units

Prerequisite(s): EDSP 474
Term Typically Offered: Fall, Spring

Candidates in the early childhood special education (ECSE) program complete early fieldwork activities at a site or program serving families and children with disabilities birth to kindergarten. Fieldwork is completed concurrently with integrated coursework. In this first early field experience, candidates focus primarily on observing evidence-based environments, instruction, and interventions as well as practicing skills including collaborating with a young child's family and team, engaging in data-based decision making, and creating and implementing intervention plans.

Credit/No Credit

EDSP 475. ECSE Early Fieldwork Experience II. 3 Units

Prerequisite(s): EDSP 474
Term Typically Offered: Fall only

Candidates in the early childhood special education (ECSE) program complete more advanced early fieldwork activities at a site or program serving families and children with disabilities birth to kindergarten. Fieldwork is completed concurrently with integrated coursework. In this second early field experience, candidates build on their skills by collaboratively analyzing their teaching and assessment practices, reflecting on their experiences, and practicing with support more advanced pedagogy.

Credit/No Credit

EDSP 476. ECSE Student Teaching: Infants & Toddlers. 4 Units

Prerequisite(s): EDSP 211
Term Typically Offered: Fall, Spring, Summer

One of two culminating experiences, candidates complete the student teaching experience with a cooperating teacher in their school district, county office of education or appropriate privately operated program providing early intervention services for infants and toddlers with disabilities and their families. Completed concurrently with integrated coursework and focuses on candidates gradually taking the lead on assessing, planning, and coaching families raising infants and toddlers with disabilities or delays within their natural routines, environments, and activities.

Note: Candidates may take EDSP 478 as a course equivalent.

Credit/No Credit
EDSP 477. ECSE Student Teaching: Preschool/Kindergarten. 6 Units
Prerequisite(s): EDSP 212, and EDSP 475 or EDSP 478
Corequisite(s): EDSP 238
Term Typically Offered: Spring only

One of two culminating experiences, candidates complete the student teaching experience with a cooperating teacher in their public school setting with preschoolers or kindergarteners with disabilities. Completed concurrently with integrated coursework and focuses on candidates gradually taking the lead on planning, implementing, and assessing instruction of all students in a school-based program while providing tiered levels of support and embedded instruction to target the needs of students with disabilities.

EDSP 478. ECSE Intern Teaching. 9 Units
Prerequisite(s): EDSP 219, EDSP 201, and EDSP 211 or EDSP 212, or permission from program coordinator
Term Typically Offered: Fall, Spring, Summer

Internship in a cooperating District or County Office of Education providing services for young children birth to kindergarten with disabilities receiving special education services and their families. Candidates must complete the intern application process in order to register. Intern serves as the teacher of record and is employed by the district. As the classroom teacher, develop and teach developmentally and accessible units and lesson plans, embed instruction and supports, collaborate with colleagues, support paraprofessionals, and lead the IFSP/IEP process.

EDSP 479. Field Experience II: Early Childhood Special Education. 3 Units
Prerequisite(s): Admission to MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential program
Corequisite(s): EDSP 210, EDSP 212, and EDSP 293 or approval of ECSE program coordinator
Term Typically Offered: Fall, Spring

The second phase of field-based experience for ECSE candidates is a supervised practicum. Candidates will spend a minimum of two days per week with a community-based program or school where preschoolers with disabilities are being served. They will be assigned a cooperating education specialist and University supervisor who they will work with to complete assignments. An evaluation of program competencies will be completed at the end of the semester.

EDSP 500. Classroom Inquiry/Action Research Portfolio-Culminating Experience. 3 Units
Prerequisite(s): EDSP 282
Corequisite(s): EDSP 283, Advancement to Candidacy
Term Typically Offered: Spring, Summer

The course establishes that the candidate has acquired the essential knowledge and skills covered in each of the courses leading to the Master of Arts in Teaching with Special Education Teaching credential. Proficiency is demonstrated through a comprehensive examination of essential content of each course in the MAT degree program. Each candidate will produce a written portfolio, accompanying executive summary, and oral poster presentation of the body of work completed during the MAT Special education program.

EDSP 501. Master of Arts Project: Special Education. 3 Units
Prerequisite(s): Approval of Culminating Experience Proposal or instructor permission
Term Typically Offered: Fall, Spring

Completion of a project that integrates research with development of a product related to instruction of persons with disabilities.

EDSP 599. Continuous Master of Arts in Special Education Teaching Enrollment. 0 Units
Prerequisite(s): Student has completed all MASET coursework prior to EDSP 500 and earned a RP in EDSP 500.
Term Typically Offered: Fall, Spring

This is a zero unit course for students in the Master of Arts in Special Education Teaching program who earn a RP in their culminating experience course, EDSP 500. The purpose of this course is to allow them to maintain their continuous enrollment status while they complete the culminating experience requirements for the MASET program.

Note: There is no grade associated with this course.

Credit/No Credit

EDLP 200. Diversity and Equity in Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

Students will engage in reflection regarding equity focused practices and policy throughout educational systems. Students will develop an understanding of how, and ability to lead for a just, equitable, and inclusive educational system.

EDLP 201. Foundations of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

Designed to introduce students to leadership theories and their direct connection to practice in the field of educational leadership. Develops in students the ability to examine various leadership theories, frames, techniques, and lenses that can be used to effectively lead schools and other educational settings.

EDLP 202. School Law and Ethics of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

The study of school law and ethical decision making as it applies to school leadership including federal and state decisions affecting the educational setting.

EDLP 203. Foundations of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

School finance with focus on the State of California school system.

EDLP 205. Instructional Leadership. 3 Units
Term Typically Offered: Fall, Spring

Instructional leadership that focuses on the diverse needs of students through the collection and analysis of data, state standards, accountability systems and culturally relevant pedagogy. Theory and practice will be explored on the best practice of supervisory techniques, classroom observation, and teacher improvement.
EDLP 209. Organizational Systems and Human Resources. 3 Units
Term Typically Offered: Fall, Spring

Students will engage in examination, synthesis, and application of human resources and management practices necessary to effectively serve as school leader in P-12 educational setting.

EDLP 221. Foundations in Higher Education Leadership. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Analyzes higher education including its historical, political, philosophical and social aspects with emphasis upon the implications of crucial issues for leaders in higher education. An examination of the historical origins of contemporary practices and discourse and an analysis of the complex relationships between society and institutions of higher education: patterns of governance and coordination; diversity; overview of organizational and administrative structure; faculty; curriculum; student affairs, policy, and demographic trends.

EDLP 222. Diversity in Higher Education. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Engages participants in a process of inquiry and reflection through self-critique, peer critique, and the dialogical examination of our assumptions, ideas, and understandings that promote intellectual growth. Participants will examine and discuss the literature, research, and discourse concerning theory, policy, and practice about diversity and its relation to higher education.

EDLP 223. Workforce Development Resource Planning, Implementation, and Evaluation. 3 Units
Term Typically Offered: Fall, Spring

Builds on the foundational competencies for workforce education and development professionals. Emphasis is on workforce development planning, analysis, design, implementation, management, and measurement and evaluation processes. Introduces several program planning models and frameworks used in the field of workforce development.

EDLP 224. Advanced Seminar: Dynamics of Organizational Change. 3 Units
Term Typically Offered: Fall, Spring

Students will engage in examination, synthesis, and application of theories of change, organizational problem solving, planning and evaluation and change management. An exploration of administrative roles and responsibilities.

EDLP 225. Advanced Seminar: Ethical Decision Making. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Links analysis with action through a survey of the ethical, legal, and professional issues facing the public or private education administrator. Underlying decision making is to understand the basic nature of the academic enterprise and apply social and moral values to the management of higher education and ethical decision making.

EDLP 226. Workforce Development Professional Competencies. 3 Units
Term Typically Offered: Fall, Spring

Explores the foundational and professional competencies of workforce education and development in the context of educational institutions, business and industry, government, NGOs, and economic development at the national and local/regional level. Examines the research literature pertaining to identification of those competencies that are demonstrated to be critical for professional success as a Workforce Development Professional.

EDLP 227. Leading the Way for Student Success: Student and Instructional Services. 3 Units
Term Typically Offered: Fall, Spring

Participants will explore changing demographics, accountability regarding statewide mandates, reporting regulations, and accreditation, new technology and other factors impacting California's community college student services programs and professionals. Gain an understanding of the philosophy and mission of student services initiatives and programs and student development theory. Examine the role of faculty as leaders in curriculum, instruction and assessment and student success. Understand the purposes and uses of research and technology to address student outcomes, teaching and learning, institutional effectiveness, and decision-making.

EDLP 228. Innovative Leadership: Strengthening Organizational Capacity. 3 Units
Term Typically Offered: Fall, Spring

California higher education leaders are presented with increased legislative and public pressure for accountability while in an era of chronic and disparate under-funding of the system. Understand the relationship between higher education finance and the overall fiscal operations of California's higher education systems.

EDLP 229. Adult Education and Learning. 3 Units
Term Typically Offered: Fall, Spring

Explores the historical and philosophical foundations of the field of adult education and learning. Contemporary applications of adult learning theories and practices are explored to provide a broad understanding of andragogy (the art and science of teaching adults) and how it relates to workforce development and other related fields (e.g., career and technical education, human resource development).

EDLP 230. Master of Arts Thesis/Project Seminar. 3 Units
Prerequisite(s): EDLP 250 and advancement to candidacy.
Term Typically Offered: Fall, Spring

This individualized seminar is designed to extend research knowledge and provide direction in the use of library/professional education resources, as well as exposure to sample theses and projects using APA style. Reviews research methods and a review of the literature and provides instruction in the appropriate academic writing style and format for academic presentation.

Credit/No Credit
EDLP 250. Education Research. 3 Units
Prerequisite(s): Admission into the EDLP Program.
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Establishes and improves students’ professional and academic writing skills in preparation for leadership duties. Classified students are encouraged to take this course early in their graduate programs.

Note: Graduate Writing Intensive (GWI) course.

EDLP 255. Field Experience Seminar. 3 Units
Prerequisite(s): Completion of 12 units including EDLP 200, EDLP 201, and either EDLP 205 or EDLP 206A for Preliminary Administrative Services Internship Credential students only.
Corequisite(s): EDLP 401 and/or EDLP 402 for Administrative Services Credential students only.
Term Typically Offered: Fall, Spring

Experience and practice in observation and analysis of school environment, including disaggregated student achievement data.

Note: Intern Students are allowed to take class twice and can take course concurrently with EDLP 401 and EDLP 402.

Credit/No Credit

EDLP 270. Advanced Seminar: Applied Leadership and Staff Teambuilding. 3 Units
Prerequisite(s): Graduate level status within the School of Education and instructor permission.
Term Typically Offered: Fall, Spring

Develop a comprehensive theoretical/conceptual framework from which to view current research surrounding Organizational Leadership and Staff Teambuilding. Special emphasis will be on providing students with experiential learning activities beyond the classroom and incorporate challenging outdoor components. Students will develop a resource portfolio relevant to their unique work situations.

EDLP 273. Advanced Seminar: Grants, Proposals and Systematic Planning. 3 Units
Term Typically Offered: Fall, Spring

Systematic planning theory and skills with particular attention to use of these skills in the development of grant proposals. Students will use funding agency regulations and guidelines relative to program development and implementation, and will develop a proposal which may be submitted to a funding agency.

Credit/No Credit

EDLP 277. Advanced Seminar: Assessment. 2 Units
Prerequisite(s): Admitted into the Professional Administrative Credential.
Term Typically Offered: Fall, Spring

Engage participants in a process of ongoing assessment of their administrative practice as school leaders. Such ongoing assessment uses multiple points of data, multiple sources of information, and multiple feedback sources such as colleagues and mentors.

Credit/No Credit

EDLP 286. Advanced Seminar: Supervision and Leadership. 3 Units
Prerequisite(s): Admission to the Educational Leadership Program, EDLP 206A, instructor permission.
Term Typically Offered: Fall, Spring

Through lecture and discussion, philosophical and practical problems of supervision of instruction will be explored. Current research on effective teaching, staff development, supervisory techniques, and theories of learning for both students and adults will be examined as a basis for sound supervision practices.

EDLP 292. Advanced Seminar: Current Topics in Educational Leadership and Policy Studies. 3 Units
Term Typically Offered: Fall, Spring

Selected current topics of concern to those involved with the administration of schools and other educational systems.

Credit/No Credit

EDLP 293. Induction Seminar. 2 Units
Term Typically Offered: Fall, Spring

Induction Seminar leads to the training experience of the Professional Administrative Services Credential candidate. Facilitates the interaction among candidate, district mentor, and university advisor, per standards of the Commission on Teaching Credentialing. Through guided practice, candidates are prompted and supported in developing an individualized induction plan. This induction plan includes mentoring, academic program at the university and non-campus components.

Credit/No Credit

EDLP 296A. Capstone Research Project. 3 Units
Prerequisite(s): Advancement to Candidacy

Each student conducts an individual project to fulfill the culminating experience graduation requirement. The course covers application of research in education to the professional practice of educational leadership, and integrates the accumulated knowledge, skills and strategies delivered in the program. This course is the culmination of the MA in Educational Leadership/Higher Education Leadership, leading to completion of the final project and the 4-semester degree.

Credit/No Credit

EDLP 296D. Leading with Technology in Institutions of Higher Education. 3 Units
Prerequisite(s): Admissions to the Master’s of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Geared specifically to meet the needs of those leaders in higher education. Those new to technology or those who want to learn more about using technology to lead programs and institutions of higher education. Participants will be provided with an array of appropriate educational technology resources to drive decision making practices. They will also learn various programs and software used to address enrollment management, admissions, records, fiscal matters, etc.

EDLP 299. Special Problems Educational Leadership. 1 - 4 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Departmental petition required. Professional Credential Students only may take up to 8 units.

Credit/No Credit
EDLP 299C. Special Problems-Preliminary Administrative Services Credential. 1 Unit
Term Typically Offered: Fall, Spring

Individual projects for Preliminary Administrative Services Credential candidates at graduate/credential level especially for students capable of independent study. Admission with written approval by the instructor with which the student will be working and the program pathway coordinator. Note: Students must have failed a CalAPA cycle(s) to take this course. This course may be repeated for up to 3 units of credit.

Credit/No Credit

EDLP 299T. Special Problems - Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading - for students working on their culminating MA requirements. Note: Departmental petition required.

Credit/No Credit

EDLP 401. Internship On-the-Job Experience. 8 Units
Term Typically Offered: Fall, Spring

First semester of the on-the-job internship experience. Interns are supervised in the administrative roles by sponsoring employing agency, as well as by university faculty. Limited to, and required of, internship candidates for the Preliminary Administrative Services Internship Credential.

Credit/No Credit

EDLP 402. Internship On-the-Job Experience. 8 Units
Term Typically Offered: Fall, Spring

Second semester of the on-the-job internship experience. Interns are supervised by sponsoring employing agency, as well as by university sponsors. Limited to, and required of, candidates for the Preliminary Administrative Services Internship Credential.

Credit/No Credit

EDLP 403. Internship On-the-Job Experience. 8 Units
Corequisite(s): EDLP 413.
Term Typically Offered: Fall, Spring

Third semester of the on-the-job experience for candidates who have not completed their credential requirements during the first year of internship. (Refer to EDLP 401.) Limited to, and required of, candidates for the Preliminary Administrative Services Internship Credential.

Credit/No Credit

EDLP 404. Internship On-the-Job Experience. 8 Units
Corequisite(s): EDLP 414.
Term Typically Offered: Fall, Spring

Fourth semester of the on-the-job internship experience. (Refer to EDLP 403.)

Credit/No Credit

EDLP 413. Supplemental Internship Experience. 6 Units
Corequisite(s): EDLP 403.
Term Typically Offered: Fall, Spring

Third semester of the supplemental internship experience. Provides first-hand visitations and experiences in various educational and community agencies at state, county, district, and local school levels; additional supervised experience for candidates; and seminar experiences in observation and analysis of school environments for candidates for the Preliminary Administrative Services Internship Credential.

Credit/No Credit

EDLP 414. Supplemental Internship Experience. 6 Units
Corequisite(s): EDLP 404.
Term Typically Offered: Fall, Spring

Fourth semester of the supplemental internship experience. Provides first-hand visitations and experiences in various educational and community agencies at state, county, district, and local school levels; additional supervised experience for candidates; and seminar experiences in observation and analysis of school environments for candidates for the Preliminary Administrative Services Internship Credential.

Credit/No Credit

EDLP 415A. Field Study in Educational Leadership. 3 Units
Term Typically Offered: Fall only

On-the-job experience in which the candidate assumes responsibility for observation and analysis of school environments including leadership responsibilities, supervision of instructional program, and overall school climate.

Credit/No Credit

EDLP 415B. Field Study in Educational Leadership. 3 Units
Term Typically Offered: Spring only

Students will participate in leadership driven field experience at a TK-12 educational setting. The leadership activities will be purposefully planned to ensure the student engages in work that supports their learning as a future/current leader while simultaneously supporting the educational setting with their initiatives.

Credit/No Credit

EDLP 495A. Advanced Administrative Field Experience. 8 Units
Prerequisite(s): Admission to Professional Administrative Services Credential Program and full-time employment as a school administrator.
Term Typically Offered: Fall, Spring

Candidates for the Professional Administrative Services Credential are supervised in full-time administrative roles by sponsoring employment agency and university faculty.

Credit/No Credit

EDLP 500A. Master of Arts Thesis/Project. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis or project committee.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

EDLP 500B. Master of Arts Thesis/Project. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis or project committee.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.
Electrical and Electronic Engineering (EEE)

EEE 64. Introduction to Logic Design. 4 Units
Prerequisite(s): CSC 15 or CSC 25 or ENGR 50
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Covers the following topics: logic gates, binary number system, conversion between number systems, Boolean algebra, Karnaugh maps, combinational logic, digital logic design, flip-flops, programmable logic devices (PLDs), counters, registers, memories, state machines, designing combinational logic and state machines into PLDs, and basic computer architecture. Lab emphasizes the use of software equation entry design tools, the use of a schematic entry, and the use of a logic simulation design tool. Lab assignments are design-oriented.
Cross Listed: CPE 64; only one may be counted for credit.

EEE 64P. Peer-Assisted Learning EEE 64. 1 Unit
Corequisite(s): EEE 64
Term Typically Offered: Fall, Spring

Students concurrently enrolled in EEE 64 work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of EEE 64 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.
Credit/No Credit

EEE 64W. Introduction to Logic Design Workshop. 1 Unit
Corequisite(s): EEE 64.
Term Typically Offered: Fall, Spring

Assists students in developing a more thorough understanding of logic simulation and logic design. Focus is on problem solving and design. Activity two hours. Lecture three hours; laboratory three hours.
Cross Listed: CPE 64W; only one may be counted for credit.

EEE 64P. Peer-Assisted Learning EEE 64. 1 Unit
Corequisite(s): EEE 64
Term Typically Offered: Fall, Spring

EEE 64W. Introduction to Logic Design Workshop. 1 Unit
Corequisite(s): EEE 64.
Term Typically Offered: Fall, Spring

EEE 108. Electronics I. 3 Units
Prerequisite(s): EEE 108L.
Term Typically Offered: Fall, Spring

Introduction to electronics, ideal OP-AMPS, BJTs, FETs, DC biasing, VI characteristics, single stage amplifiers, low frequency small signal models, power supplies and voltage regulation. PSPICE required.

EEE 108L. Electronics I Laboratory. 1 Unit
Prerequisite(s): EEE 117, EEE 117L
Corequisite(s): EEE 108
Term Typically Offered: Fall, Spring

Characteristics and applications of semiconductor devices including diodes, BJTs and FETs, and analog integrated circuits including opamps. Introduction to circuit simulation using professional computer-aided design (CAD) software. Laboratory three hours.

EEE 109. Electronics II. 4 Units
Prerequisite(s): EEE 108, EEE 108L, EEE 117, EEE 117L; and GAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Differential and multistage amplifiers, high frequency models (BJTs and FETs), feedback and sensitivity, power amplifiers, oscillators and waveform shaping circuits. Advanced use of PSPICE. Lecture three hours; laboratory three hours.

EEE 110. Advanced Analog Integrated Circuits. 3 Units
Prerequisite(s): EEE 109 or consent of instructor.
Term Typically Offered: Fall only

The use of operational amplifiers in circuit designs for applications such as filtering, switched capacitor design, sample and hold design, instrumentation amplifiers, and voltage reference circuitry will be explored, as well as topics in Feedback Theory.

EEE 111. Advanced Analog Integrated Circuits Laboratory. 1 Unit
Prerequisite(s): EEE 109; either EEE 110 or EEE 230. EEE 110 or EEE 230 may be taken concurrently.
Term Typically Offered: Fall only

Circuit design, mask design, and simulation of integrated circuitry. Use of CAD software to prepare design for fabrication. Individual and group design projects. Laboratory three hours.

EEE 117. Network Analysis. 3 Units
Prerequisite(s): ENGR 17, MATH 45, and PHYS 11C
Corequisite(s): EEE 117L.
Term Typically Offered: Fall, Spring

Review of sinusoidal steady state, phasors, complex power, three phase power, mutual inductance, series and parallel resonance. Introduction to application of Laplace transforms in network analysis, transfer functions, Bode plots, Fourier series, two-port circuits.

EEE 117L. Networks Analysis Laboratory. 1 Unit
Corequisite(s): EEE 117.
Term Typically Offered: Fall, Spring

Introduces fundamental laboratory techniques while demonstrating the concepts introduced in the EEE 117 lecture. The computer simulation language PSPICE is introduced and applied. Laboratory three hours.

EEE 120. Electronic Instrumentation. 4 Units
Prerequisite(s): EEE 108, EEE 117; EEE 108 may be taken concurrently.
Term Typically Offered: Fall, Spring

Fundamental principles of sensors and instrumentation systems, together with their electrical implementation, such as biasing and signal conditioning circuits. Temperature, force, pressure, and mechanical sensors. Optical sensors, including a brief introduction to light sources and detectors. Applications to biomedical engineering and industrial control. Lecture three hours; laboratory three hours.
EEE 122. Applied Digital Signal Processing. 3 Units
Prerequisite(s): EEE 117, EEE 180.
Term Typically Offered: Fall only

Application of digital signal processing to biomedical signals. Origin and
characteristics of biomedical signals and contaminations. Preparation
of biomedical signals for processing, including sensors, amplification,
filtering, sampling, and quantization. Time-domain processing, including
peak and zero-crossing detection, time interval measurement, peak
height, and moving average estimates of mean and root mean square
value. Frequency domain processing, including filtering to separate
biomedical signal components and spectrum estimation. Joint time-
frequency analysis.

EEE 130. Electromechanical Conversion. 3 Units
Prerequisite(s): EEE 117 and EEE 161
Term Typically Offered: Fall, Spring

Magnetic circuits and principles of electromechanical energy conversion,
Transformers, Rotating Magnetic Fields, Asynchronous AC machines,
Synchronous AC machines, DC machines, Introduction to special
machines, Introduction to power electronic drives.

EEE 131. Electromechanics Laboratory. 1 Unit
Prerequisite(s): EEE 117, EEE 130 (EEE 130 may be taken concurrently),
and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a
C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Direct current motor and generator characteristics, three phase
synchronous motor and synchronous generator characteristics, single
phase power transformer short circuit and no-load tests, frequency
changer tests and tests on DC and AC machine models, potential and
current transformers.

EEE 135. Renewable Electrical Energy Sources and Grid Integration. 3 Units
Prerequisite(s): EEE 141 or EEE 130.
Term Typically Offered: Spring only

The study of existing sources of renewable electric energy such
as wind, solar, geothermal, hydro, tidal, wave power, and biomass.
Emphasis on wind and solar energy sources and their integration into the
electric power grid. Various energy storage methods to accommodate
the intermittent nature of these resources. Economic constraints,
environmental benefits and institutional regulations.

EEE 136. Smart Electric Power Grid. 3 Units
Prerequisite(s): EEE 141
Term Typically Offered: Spring only

Smart grid to enhance reliability, security, robustness and efficiency of
transmission and distribution systems. Integration of renewable energy
sources and distributed generation. Energy storage systems. Advanced
metering infrastructure, home-area networks, micro-grids, real-time
pricing, plug-in hybrid vehicles, demand response, load curve sharing.
Control, monitoring and protection grid; SCADA systems. Voltage and
load frequency control to ensure balance. Enabling active participation
of consumer. Anticipating and responding to system disturbance in self
healing manner. Providing power quality for digital systems needs.

EEE 137. Applications of Power Electronics in Power Systems. 3 Units
Prerequisite(s): EEE 141
Term Typically Offered: Spring only

Analysis methods for power electronics. Power electronic devices and
their control methodologies. Electric machinery drives and flexible
alternating current transmission systems (FACTS) devices simulation of
cases relevant to applications of power electronics in power systems.

EEE 141. Power System Analysis I. 3 Units
Prerequisite(s): EEE 117
Term Typically Offered: Fall, Spring

Introduction to modern electric power systems, fundamentals of AC
and DC systems, power definitions, per-unit analysis, steady-state
analysis of power systems, models of power system components such as
transformers, generators, motors, power electronic converters and loads.

EEE 142. Power System Analysis II. 3 Units
Prerequisite(s): EEE 141, EEE 161, and EEE 184 (EEE 184 may be taken
concurrently).
Term Typically Offered: Fall, Spring

Transmission line parameters and modeling, power flow analysis,
analysis of power systems under faulted conditions, introduction to
economic operation of power systems, introduction to power system
stability and control.

EEE 143. Power System Laboratory. 1 Unit
Prerequisite(s): EEE 142 (EEE 142 maybe taken concurrently), received
WPJ score
Term Typically Offered: Fall, Spring

Simulation and measurements on single-phase and three phase circuits,
power generation, paralleling, and integration of multiple generation
systems, transmission line operations including voltage regulation and
line compensation.

EEE 144. Electric Power Distribution. 3 Units
Prerequisite(s): EEE 141.
Term Typically Offered: Fall only

Operation and design of utility and industrial distribution systems
including distribution system planning; load characteristics; application
of distribution transformers; design of subtransmission lines, distribution
substations, primary systems, secondary systems; application of
capacitors; voltage regulation and reliability.

EEE 145. Power System Relay Protection and Laboratory. 4 Units
Prerequisite(s): EEE 141
Term Typically Offered: Fall only

Principles of protective relaying (classical and modern), current and
voltage transformers, setting and testing or relaying elements, including
differential, impedance, over/under current, voltage, and frequency relay
types and/or elements, and their applications in protection of power
system elements, including lines, generators, transformers, motors, and
buses. Lecture 3 hours; laboratory 3 hours.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Term Typically Offered</th>
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<td>EEE 146</td>
<td>Power Electronics.</td>
<td>3</td>
<td>EEE 108</td>
<td>Fall, Spring</td>
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<td><strong>Prerequisite(s):</strong> EEE 108.</td>
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<td>EEE 147</td>
<td>Power System Operation and Control Laboratory.</td>
<td>1</td>
<td>EEE 142</td>
<td>Fall, Spring</td>
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<td><strong>Prerequisite(s):</strong> EEE 146; may be taken concurrently.</td>
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<tr>
<td>EEE 148</td>
<td>Power Electronics Laboratory.</td>
<td>1</td>
<td>EEE 146</td>
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<td><strong>Prerequisite(s):</strong> EEE 146; may be taken concurrently.</td>
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<td>EEE 161</td>
<td>Applied Electromagnetics.</td>
<td>4</td>
<td>MATH 32, MATH 45, PHYS 11C, and ENGR 17</td>
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<td></td>
<td><strong>Prerequisite(s):</strong> MATH 32, MATH 45, PHYS 11C, and ENGR 17.</td>
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<tr>
<td>EEE 162</td>
<td>Applied Wave Propagation.</td>
<td>3</td>
<td>EEE 117, EEE 161</td>
<td>Fall, Spring</td>
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<td><strong>Prerequisite(s):</strong> EEE 117, EEE 161</td>
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<td>EEE 163</td>
<td>Traveling Waves Laboratory.</td>
<td>1</td>
<td>EEE 117, EEE 162 (EEE 162 may be taken concurrently), and (WPJ score of 70+), or at least a C- in ENGL 109M/W</td>
<td>Fall, Spring</td>
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<td><strong>Prerequisite(s):</strong> EEE 117, EEE 162 (EEE 162 may be taken concurrently), and (WPJ score of 70+, or at least a C- in ENGL 109M/W)</td>
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<td>EEE 165</td>
<td>Introduction To Optical Engineering.</td>
<td>3</td>
<td>EEE 161, EEE 180, EEE 185; EEE 185 may be taken concurrently.</td>
<td>Fall, Spring</td>
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<td><strong>Prerequisite(s):</strong> EEE 161, EEE 180, EEE 185; EEE 185 may be taken concurrently.</td>
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<td>EEE 166</td>
<td>Physical Electronics.</td>
<td>3</td>
<td>EEE 108 and CHEM 1E or CHEM 1A</td>
<td>Spring only</td>
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<td><strong>Prerequisite(s):</strong> EEE 108 and CHEM 1E or CHEM 1A</td>
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<td>EEE 167</td>
<td>Electro-Optical Engineering Lab.</td>
<td>1</td>
<td>EEE 161, EEE 180, EEE 165; EEE 165 may be taken concurrently.</td>
<td>Fall, Spring</td>
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<td><strong>Prerequisite(s):</strong> EEE 161, EEE 180, EEE 165; EEE 165 may be taken concurrently.</td>
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<tr>
<td>EEE 168</td>
<td>Introduction to Microprocessors.</td>
<td>4</td>
<td>Junior status, EEE 64</td>
<td>Fall, Spring, Summer</td>
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<td><strong>Prerequisite(s):</strong> Junior status, EEE 64</td>
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<td>EEE 169</td>
<td>Introduction to Machine Vision.</td>
<td>3</td>
<td>EEE 180 or ME 172, or instructor approval.</td>
<td>Spring only</td>
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<td><strong>Prerequisite(s):</strong> EEE 180 or ME 172, or instructor approval.</td>
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</table>
EEE 180. Signals & Systems. 3 Units
Prerequisite(s): ENGR 17, MATH 45, EEE 117; EEE 117 may be taken concurrently.
Term Typically Offered: Fall, Spring

Rigorous development of the fundamental relationships governing time-domain and frequency-domain analysis of linear continuous-time and discrete-time systems. Topics include Fourier, Laplace and z-transforms, sampling theorem, modulation, system stability, and digital filters.

EEE 181. Introduction to Digital Signal Processing. 3 Units
Prerequisite(s): EEE 64, EEE 180.
Term Typically Offered: Spring only

Focuses on the application of linear systems theory to design and analysis of digital signal processing systems. Discrete systems, the z transform, and discrete Fourier transform are reviewed. Design of infinite impulse response filters, finite impulse response filters, and digital spectral analysis systems is presented. Computer simulation is used to study the performance of filters and spectral analysis systems. Signal processing architectures are introduced.

EEE 182. Digital Signal Processing Lab. 1 Unit
Prerequisite(s): EEE 180, EEE 181; EEE 181 may be taken concurrently.
Term Typically Offered: Spring only

Provides senior level undergraduate students with experience in the software/hardware design of discrete-time systems, and modern DSP techniques. Laboratory projects will include the following: spectral analysis of analog and digital signals, design of sampling and quantizer circuits, design and realization of IIR and FIR Digital Filters. Hardware projects will include acquisition, analysis, and filtering of speech, biomedical and video signals using Digital Signal Processors (DSPs).

EEE 183. Digital and Wireless Communication System Design. 3 Units
Prerequisite(s): EEE 161, EEE 180; EEE 185 may be taken concurrently.
Term Typically Offered: Fall only

Review of fundamentals, probability, information, distortion by channel, sampling, pulse code modulation, companding, link power calculation, noise figure, pseudo noise. Matched filter detection of binary signals, bit error rate, inter-symbol interference, zero-forcing equalizers. Effects of additive white Gaussian noise in pulse code modulation, spread spectrum in multiple access, cellular radio and other wireless applications. Procedure for making design trade offs will be discussed.

EEE 184. Introduction to Feedback Systems. 3 Units
Prerequisite(s): EEE 180.
Term Typically Offered: Fall, Spring

Dynamic system modeling by transfer function and state-space methods using differential equation, time-response and frequency-response methods. Determination of steady-state errors due to step, ramp and parabolic inputs and disturbances for closed-loop systems. Mapping of block diagrams and state-space representations to signal flow graphs (SFG) as well as finding the transfer function of the system represented by the SFG by Mason’s Rule. Closed-loop system stability is examined via poles and eigenvalues and by using the Routh-Hurwitz criterion. Introduction to observability and controllability of systems. Design of compensators for feedback systems using root-locus, frequency response and state-space methods. Introduction to digital control. Computer simulation methods such as MATLAB and SIMULINK are used to support the above subjects.

EEE 185. Modern Communication Systems. 3 Units
Prerequisite(s): EEE 180, ENGR 120; ENGR 120 may be taken concurrently.
Term Typically Offered: Fall, Spring

Review of signal and system analysis, sampling theorem and Nyquist’s criteria for pulse shaping, signal distortion over a channel, study of digital and analog communication systems, line coding, signal to noise ratios, performance comparison of various communication systems.

EEE 186. Communication Systems Laboratory. 1 Unit
Prerequisite(s): EEE 185 (EEE 185 may be taken concurrently), and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Experimental study of modulation and demodulation in AM, FM, and digital communication systems, A/D and D/A conversion, measurement of power spectra, noise characterization in frequency domain.

EEE 187. Robotics. 4 Units
Prerequisite(s): EEE 180 or equivalent, or instructor permission.
Term Typically Offered: Fall only

Lecture introduces principles of robotics and design of robot systems. Includes robot architectures, sensing position/velocity, digital circuit noise, actuator and path control, robot coordinate systems, kinematics, differential motion, computer vision/architectures, and artificial intelligence. Laboratory will apply lecture theory in design experiments utilizing five degree-of-freedom robots, an industrial robot, and vision systems.

EEE 188. Digital Control System. 3 Units
Prerequisite(s): EEE 180, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Spring only


EEE 189. Controls Laboratory. 1 Unit
Prerequisite(s): EEE 184 (EEE 184 may be taken concurrently), and (WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Spring only

Study, simulation and design of linear feedback control systems using digital control methods such as MATLAB and SIMULINK. Practical examples of analysis and compensation for closed loop systems.
EEE 192A.  Electrical Power Design Project I.  2 Units
Prerequisite(s): EEE 141, EEE 142, EEE 143; (EEE 142 and EEE 143 may be
taken concurrently). WPJ score of 70+, or at least a C- in ENGL 109M or
ENGL 109W.
General Education Area/Graduation Requirement: Upper Division Further
Studies in Area B5
Term Typically Offered: Fall, Spring
Concentrates on the planning, research and design aspects of electric
power systems, including generation, transmission and distribution
systems. Emphasis is placed on design philosophies, problem definition,
research, project planning, written and oral communication skills,
teamwork, development of specifications and effective utilization of
available resources. Lecture one hour; laboratory three hours.

EEE 192B.  Electrical Power Design Project II.  2 Units
Prerequisite(s): EEE 142, EEE 143, and EEE 192A.
General Education Area/Graduation Requirement: Upper Division Further
Studies in Area B5
Term Typically Offered: Fall, Spring
Continuation of EEE 192A. Students are expected to continue the power
electrical engineering design project begun the previous semester in EEE 192A.
Final results of the project report will be presented orally to the class and
invited faculty in a publicized seminar. Lecture one hour; laboratory three
hours.

EEE 193A.  Product Design Project I.  2 Units
Prerequisite(s): EEE 108, EEE 109, EEE 161, EEE 174, EEE 180 (EEE 109
may be taken concurrently), GE Area A and (WPJ score of 70+, or at least
a C- in ENGL 109M or ENGL 109W).
General Education Area/Graduation Requirement: Upper Division Further
Studies in Area B5
Term Typically Offered: Fall, Spring
Concentrates on the planning of design projects begun by the previous semester design
teams in EEE 193A. The hardware will be completed, tested for the
meeting of specifications and other requirements, and redesigned if
necessary. Required software will be written, debugged and incorporated
in a written report. The final results of the team project will be presented
orally to the class and invited faculty in a publicized seminar. Lecture one
hour; laboratory three hours.

EEE 193B.  Product Design Project II.  2 Units
Prerequisite(s): EEE 193A.
General Education Area/Graduation Requirement: Upper Division Further
Studies in Area B5
Term Typically Offered: Fall, Spring
EEE 194.  Career Development in Electrical and Electronic Engineering.  1 Unit
Prerequisite(s): EEE 192A or EEE 193A, may be taken concurrently.
Term Typically Offered: Fall, Spring
Designed for Electrical and Electronic Engineering students making
career decisions. Instruction will include effective career planning
strategies and techniques including skill assessments, employment
search strategy, goal setting, time management, interview techniques and
resume writing. Lecture one hour.
Note: Units earned cannot be used to satisfy major requirements.
Credit/No Credit
EEE 195.  Fieldwork in Electrical and Electronic Engineering.  1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised work experience in Electrical and Electronic Engineering with
public agencies or firms in the industry. Requires approval of a petition by
the supervising faculty member and Department Chair.
Note: May be repeated for credit.
Credit/No Credit
EEE 195D. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.

Note: Units earned cannot be used to satisfy major requirements.

Credit/No Credit

EEE 196A. PCB Design Fundamentals. 1 Unit
Prerequisite(s): EEE 102, CPE 102 or EEE 108.
Term Typically Offered: Fall, Spring

Printed circuit board (PCB) design fundamentals including library component creation, schematic capture, layout, routing, signal integrity and transmission line analysis, IEEE/IPC rules and standards, materials, manufacturing processes, and other physical properties of a PCB.

EEE 199. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Open only to students who appear qualified for independent work. Approval of the faculty sponsor and the academic advisor must be obtained before registering. May be repeated for credit.

EEE 201. Research Methodology. 2 Units
Prerequisite(s): Graduate standing or instructor permission
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Immersion in the discourse of Electrical and Electronic Engineering: genres, literacies, stylistic conventions, research methodology. Collective and individual study of selected issues and problems relating to fields of study in Electrical and Electronic Engineering. Orientation to the requirements for the master’s degree culminating experience.

Note: Must be taken in the first semester of the graduate program.

Credit/No Credit

EEE 211. Microwave Engineering. 3 Units
Prerequisite(s): EEE 161; EEE 108 or instructor permission.
Term Typically Offered: Fall, Spring

High-frequency passive electronic circuit design, specifically S-parameters, impedance matching, microstrip lines, filters, couplers and antennas.

EEE 212. Modern Antenna Design. 3 Units
Prerequisite(s): EEE 161.
Term Typically Offered: Fall, Spring


EEE 213. Microwave Devices and Circuits. 3 Units
Prerequisite(s): EEE 162.
Term Typically Offered: Fall, Spring

Theory and application of electromagnetic radiation at microwave frequencies; study of microwave impedance and power measurement and characteristics of microwave circuit components, and electronic devices.

EEE 214. Computer Aided Design for Microwave Circuits. 3 Units
Prerequisite(s): EEE 211 or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to design methodology of the basic building blocks of communication systems. Use of solid state devices in communications and microwave technology. Implementation of transmitter and receiver architectures. Impedance matching, S-parameters and small-signal, large-signal device operation. Design of transmitter and receiver components using a professional software tool. Design and simulations of gain and low noise amplifiers, detectors, mixers, power amplifiers and oscillators. Tradeoffs involved in the design of a complete transmitter and a receiver.

EEE 215. Lasers. 3 Units
Prerequisite(s): EEE 180 and EEE 161 or instructor permission.
Term Typically Offered: Fall, Spring

Review of electromagnetic theory. Ray tracing in an optical system, Gaussian beam propagation. Resonant optical cavities, study of excitation and lasing mechanisms in gas and semiconductor lasers. General characteristics and design of CW, Q switched and traveling wave lasers.

EEE 221. Machine Vision. 3 Units
Term Typically Offered: Spring only

Introduces the student to fundamental digital imaging processing concepts and their application to the fields of robotics, automation, and signal processing. Topics include: digital image filters, two dimensional transforms, boundary descriptors, Hough transform, automated visual inspection techniques, vision for robot control, 3-D vision, and hardware architectures to support vision.

EEE 222. Electronic Neural Networks. 3 Units
Term Typically Offered: Spring only – even years

Current neural network architectures and electronic implementation of neural networks are presented. Basics of fuzzy logic is covered. Application software will be used to simulate training. Testing of various neural net architectures. Learning strategies such as back-propagation, Kohonen, Hopfield and Hamming algorithms will be explored. A final project requires the student to design, train and test a neural network for electronic implementation that solves a specific practical problem.

EEE 225. Advanced Robot Control. 3 Units
Prerequisite(s): EEE 184 or equivalent.
Term Typically Offered: Fall only

Introduction to robot kinematics and dynamics followed by a comprehensive treatment of robot control. Topics include: independent joint control, multivariable control, force control, feedback linearization, real-time parameter estimation, and model-reference adaptive control.
EEE 230. Analog and Mixed Signal Integrated Circuit Design. 3 Units
Prerequisite(s): EEE 109 or instructor permission.
Term Typically Offered: Fall, Spring
Covers core topics and circuits important for analog and mixed-signal integrated circuits. Topics include: device structures and models, single-stage and differential amplifiers, current mirrors and active loads, operational amplifier design, stability and compensation, fully-differential circuits and common-mode feedback, noise in integrated circuits and the impact of IC processes on analog performance.

EEE 231. Advanced Analog and Mixed Signal Integrated Circuit Design. 3 Units
Prerequisite(s): EEE 230 or consent of the instructor.
Term Typically Offered: Fall only
A companion course to EEE 230, covers additional topics important in analog and mixed-signal integrated circuit design. Topics include traditional issues such as device matching and analog layout techniques, as well as important building blocks such as bandgap references and bias circuits. Also included are current-mode techniques such as high-speed current-mode logic (CML), and an introduction to noise in integrated circuits. Circuit and layout projects are assigned using CAD software.

EEE 232. Key Mixed-Signal Integrated Circuit Building Blocks. 3 Units
Prerequisite(s): EEE 230 or consent of instructor.
Term Typically Offered: Spring only
Covers key mixed-signal integrated circuit building blocks most often used in modern ICs. Topics covered include data converter fundamentals, comparators, and important circuit architectures for Analog-to-Digital Converters (ADCs), Digital-to-Analog Converters (DACs), and Phase-Locked Loops (PLLs).

EEE 234. Digital Integrated Circuit Design. 3 Units
Prerequisite(s): EEE 230 or instructor permission.
Term Typically Offered: Fall, Spring
The background and techniques needed to design and layout digital circuits at the transistor level for mixed-signal integrated circuits are covered. Topics include the design, layout and characterization of digital logic gates at the transistor level, typical CMOS process flows, device models and physics, and chip level considerations.

EEE 235. Mixed-Signal IC Design Laboratory. 1 Unit
Prerequisite(s): EEE 230 or consent of the instructor.
Term Typically Offered: Fall only
Methods to develop successful mixed-signal integrated circuits using an industrial design methodology and computer-aided design tools. Proven design techniques presented; hands-on experience gained through each student designing their own integrated circuit. Communications skills developed through periodic presentations, including reviews for the circuit architecture, design and layout.

EEE 236. Advanced Semiconductor Devices. 3 Units
Term Typically Offered: Spring only
Semiconductor device modeling, including the application of the continuity equation and Poisson's equation to abrupt and graded p/n junctions, semiconductor/metal contacts, junction field effect transistors (JFET), metal-oxide-semiconductor transistors (MOSFET), and bipolar junction transistors (BJT). Special topics include compound semiconductor devices and heterostructures.

EEE 238. Advanced VLSI Design-For-Test I. 3 Units
Prerequisite(s): CPE 151 and CPE 166.
Term Typically Offered: Fall only
Focus on integrated circuit design-for-test-techniques; semiconductor reliability factors and screening; semiconductor fabrication processes, device physics and related performance limitations; quantifying cost/quality tradeoffs; IC manufacturing flows and high-accuracy parametric test methods.

EEE 239. Advanced VLSI Design-For-Test II. 3 Units
Prerequisite(s): EEE 238.
Term Typically Offered: Fall, Spring
Advanced topics in VLSI testing and Design-For-Test applications. Memory-specific test methodology and special features of memory designs employed in high volume manufacturing for improved testability, yield, and reliability. VLSI failure modes, their detection and prevention. Application of trim, redundancy, wear-leveling, and error correction.

EEE 241. Linear Systems Analysis. 3 Units
Prerequisite(s): EEE 180 or equivalent.
Term Typically Offered: Spring only – odd years
Analyzes linear systems in the state-space. System realization and modeling, solutions of linear systems, stability including the method of Lyapunov, controllability and observability, state feedback and observers for both continuous and discrete-time systems. Familiarity with MATLAB is required.

EEE 242. Statistical Signal Processing. 3 Units
Prerequisite(s): ENGR 120, EEE 180
Term Typically Offered: Fall, Spring
Introduces the student to modern statistical approaches for solving electronic system noise problems. A few of the topics covered are: Stochastic processes, Wiener and Kalman filters, linear prediction, lattice predictors and singular-value decomposition.
Note: The knowledge of ENGR 120 and EEE 180 or equivalent courses is recommended to take this course.

EEE 243. Applied Stochastic Processes. 3 Units
Prerequisite(s): ENGR 120.
Term Typically Offered: Fall, Spring
Introduction to sequence of random variables and multivariable distributions; models of stochastic processes; stationary stochastic processes and their applications; Markov processes, Markov chains, continuous Markov chains; renewal processes; birth-death processes; time-series applications in stochastic processes in filtering, reliability and forecasting, prediction and control.

EEE 244. Electrical Engineering Computational Methods and Applications. 3 Units
Prerequisite(s): EEE 180.
Term Typically Offered: Fall, Spring
Computational methods for solving problems in engineering analysis. Topics include variational methods, finite-difference analysis, optimization methods, and matrix methods. Focuses predominantly on applications of the methods, and students are required to solve real-world, engineering problems on the computer.
EEE 245. Advanced Digital Signal Processing. 3 Units
Prerequisite(s): ENGR 50, ENGR 120, EEE 181; or instructor permission
Term Typically Offered: Fall only

Advanced signal processing topics include: multirate signal processing, adaptive filter design and analysis, spatial filtering and the application of FIR filter theory to beamforming. Applications of digital signal processing in communication systems, radar systems, and imaging systems are covered.

EEE 246. Advanced Digital Control. 3 Units
Prerequisite(s): EEE 241.
Term Typically Offered: Spring only – even years


EEE 249. Advanced Topics in Control and Systems. 3 Units
Term Typically Offered: Spring only – even years

Topics from recent advances in control, systems and robotics control selected from IEEE Journals and related professional publications. May be taken twice for credit.

EEE 250. Modern Power Transmission Systems. 3 Units
Prerequisite(s): EEE 142 or equivalent.
Term Typically Offered: Spring only

Characteristics of modern power transmission systems, Transmission line parameters, Steady-state, Dynamic and Transient behavior of AC/DC transmission systems, Flexible AC Transmission Systems (FACTS), High-Voltage Direct Current (HVDC) systems, Analysis of faulted transmission systems and AC/DC hybrid grids.

EEE 251. Power System Economics and Dispatch. 3 Units
Prerequisite(s): EEE 141 or equivalent.
Term Typically Offered: Fall only

Study of a number of engineering and economic matters involved in planning, operating, and controlling power generation and transmission systems in electric utilities. Effects of hydro and nuclear plants on system economics. Economic and environmental constraints. Theoretical developments and computer methods in determining economic operation of interconnected power systems with emphasis on digital computers.

EEE 252. Power System Reliability and Planning. 3 Units
Prerequisite(s): EEE 142 or equivalent.
Term Typically Offered: Spring only

Power system economics, generation, transmission and distribution reliability. Production costing and generation planning, transmission planning.

EEE 253. Control and Stability of Power Systems. 3 Units
Prerequisite(s): EEE graduate standing.
Term Typically Offered: Fall only

The fundamental concepts of control and stability in power systems. Topics include: power systems dynamics and linearized models, small and large disturbances, voltage and frequency stability. Introduction to power systems dynamic simulation for stability studies using CAD tools.

EEE 254. Large Interconnected Power Systems. 3 Units
Prerequisite(s): EEE 142.
Term Typically Offered: Spring only

Computer control, optimization and organization of large power systems. Loan and frequency control, voltage control, large load flow and contingency studies. Introduction to state estimation and load forecasting.

EEE 255. Future Power Systems and Smart Grids. 3 Units
Prerequisite(s): EEE 141, EEE 146, EEE 180, and EEE 250 or instructor permission.
Term Typically Offered: Spring only

Future power systems from component and system perspectives. Smart grids, micro-grids, and interactive power systems using renewable resources and energy storage elements. National standards for certification of distributed generation involving machine-based and inverter-based technologies. Essential elements of advanced sensing, communications and information technology and their roles in adaptive automation, control, protection, and security.

EEE 256. Advanced Power Systems Protection. 3 Units
Prerequisite(s): EEE 141; EEE 145 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced concepts and schemes used in power system protection including the various protective schemes used for transmission lines, transformers, machines, and other elements of a large interconnected power system. Concepts in digital and microprocessor based relay design and analysis of typical protection subsystems, in conjunction with the protection of the power system as a whole.

EEE 257. Wind Energy Electrical Conversion Systems. 3 Units
Prerequisite(s): Fully classified graduate standing in EEE or instructor permission
Term Typically Offered: Fall only

Fundamentals of current technologies and methods in wind energy conversion systems, including turbines, generators and converters as well as control and integration of these devices in power grids. Topics include: power conversion, grid converters for wind systems, system integration, methods for power, voltage and frequency control, and wind farms simulation and aggregation methods.

EEE 259. Advanced Topics in Power Systems. 3 Units
Prerequisite(s): EEE 142.
Term Typically Offered: Spring only

Topics from recent advances in Electrical Power Engineering selected from IEEE Journal on "Power Systems" and "Power Systems Delivery." May be taken twice for credit.

EEE 260. Digital Communications. 3 Units
Prerequisite(s): EEE 185, or instructor permission.
Term Typically Offered: Fall only

This course introduces the fundamental principles and design of digital communication systems. Main topics to be covered include representation of digitally modulated signals, signal spectral characteristics, optimum demodulation and detection methods in AWGN channels, and evaluation of the error-rate performance in AWGN channels.
EEE 261. Information Theory, Coding, and Detection. 3 Units
Prerequisite(s): ENGR 120 and EEE 185; or instructor permission.
Term Typically Offered: Spring only


EEE 262. Wireless Communications Systems. 3 Units
Prerequisite(s): EEE 185 or instructor permission.
Term Typically Offered: Fall only

Wireless communication techniques, systems and standards. Topics include cellular systems, RF transmission and analog/digital modulation techniques. Modern techniques such as multiple access and spread spectrum systems. Channel coding and diversity will also be included.

EEE 264. Advanced Topics in Wireless Communications. 3 Units
Prerequisite(s): EEE 262 or instructor permission.
Term Typically Offered: Fall only

Advanced theoretical and practical aspects of modern wireless communications. Specific topics include: advanced cellular concepts, modern small-scale and large-scale propagation models, complex equalization and diversity system design, 3G (third generation) wireless networks, Bluetooth and Personal Area Networks (PANs), GPRS (General Packet Radio Service) and wireless measurement techniques.

EEE 265. Optoelectronic Engineering. 4 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Generation, propagation and detection of light. Fresnel equations, Snell’s law, diffraction, polarization, and interference. Operating principles of LEDs, lasers, photodiodes, optical fibers, photovoltaic devices. Introduction to optical communications systems and optical instrumentation.
Note: EEE 265 and EEE 165 may not be both taken for graduate credit.

EEE 266. Modern Digital Communication Systems. 3 Units
Prerequisite(s): EEE 260 or instructor permission
Term Typically Offered: Spring only

This course introduces the fundamentals of digital communications over band-limited channels. Topics covered include inter-symbol interference, performance analysis of digital transmission schemes over fading channels, and diversity techniques. Other topics include overview of MIMO communication systems and diversity multiplexing trade-offs in multi-antenna systems.

EEE 267. Fiber Optic Communications. 3 Units
Prerequisite(s): EEE 185 or instructor permission.
Term Typically Offered: Fall, Spring


EEE 268. Telecommunication Networks. 3 Units
Prerequisite(s): EEE 185 or instructor permission.
Term Typically Offered: Spring only

This course discusses the architecture of current and next generation telecommunication networks. Main topics to be covered include introduction to modern telecommunication networks, multi-access channels, media access control, resource allocation, performance analysis of transmission techniques, and ad-hoc wireless networks. Emphasis will be on the datalink and physical layers of the communication network.

EEE 270. Advanced Topics in Logic Design. 4 Units
Prerequisite(s): EEE Graduate Student Standing.
Term Typically Offered: Fall, Spring

Synchronous and asynchronous state machines. Timing issues in high-speed digital design. Design of a complex system using VHDL and Verilog Hardware Description Languages in a CAD environment. Automation toolsets to synthesize projects containing a hierarchy of modules into Field Programmable Gate Arrays (FPGAs). Simulations using CAD tools to verify the design before implementation on rapid prototyping boards in the lab. Lecture 3 hours; laboratory 3 hours.

EEE 272. High Speed Digital System Design. 3 Units
Prerequisite(s): EEE 161, fully classified graduate standing and instructor permission.
Term Typically Offered: Fall, Spring

Theoretical topics and practical applications relating to high speed digital systems. Review of basic transmission line theory, crosstalk, impact of PCB traces, vias, and connectors on signal integrity, return current paths, simultaneous switching noise, high frequency power delivery, high speed timing budgets, high speed bus design methodologies, radiated emissions, and system noise.

EEE 273. Hierarchical Digital Design Methodology. 3 Units
Prerequisite(s): EEE 64 or equivalent.
Term Typically Offered: Spring only

Hierarchical digital design course that includes: State machine design, Programmable Logic Devices, digital simulation techniques, digital interface, design with ASIC (Application Specific Integrated Circuits), programmable Gate Arrays, and designing with Gas high speed logic devices. Problems with EMI, RFI and EMC will be presented along with design guidelines. Lecture three hours. Cross Listed: CSC 273; only one may be counted for credit.

EEE 274. Advanced Timing Analysis. 3 Units
Prerequisite(s): EEE 273, CSC 273, CPE 273 or instructor permission.
Term Typically Offered: Fall, Spring

Timing analysis of Application Specific Integrated Circuit (ASIC) designs: Topics include ASIC design methodology, static timing analysis, timing design constraints, design reports, clock timing issues, timing exceptions, operating conditions, hierarchical analysis, analyzing designs with asynchronous logic, performance measurement and power issues. Cross-listed: CPE 274; only one may be counted for credit.
EEE 280. Advanced Computer Architecture. 3 Units
Prerequisite(s): ECE 174 or CPE 185.
Term Typically Offered: Fall, Spring
Introduces computer classification schemes, structures of uniprocessor and multiprocessor systems, parallelism in uniprocessor systems, design and performance analysis of pipelined and array processors. Survey and analysis of interconnection networks and parallel memory organizations, programming issues of multiprocessor systems and fault tolerant computing and design for testability. Cross Listed: CSC 280; only one may be counted for credit.

EEE 285. Micro-Computer System Design I. 3 Units
Prerequisite(s): EEE 299. Special Problems.
Term Typically Offered: Fall, Spring
Open to qualified students who wish to pursue problems of their own choice. Projects must have approval and supervision of a faculty advisor.

EEE 286. Microcomputer System Design II. 3 Units
Prerequisite(s): EEE 285 or CPE 186.
Term Typically Offered: Fall, Spring
Includes PCI and PCI express bus specifications/architecture, PCI bridges transaction ordering, PCI express transactions and handshake protocols, electromagnetic interference, methods of eliminating interference, shielding grounding, balancing, filtering, isolation, separation, orientation, cancellation techniques and cable design. Involves design projects and research presentations on PCI and PCI Express Bridge.

EEE 296C. Transients in Power Systems. 3 Units
Prerequisite(s): EEE 130 and EEE 141
Term Typically Offered: Fall, Spring
Transients in electric power systems due to shunt capacitor switching, voltage flicker and nonlinear loads such as electric arc furnaces. Lightning surges and their effect on the power system health and operation. Transformer inrush currents and motor starting. The knowledge of EEE 130 and EEE 141 or equivalent courses is required for taking this course.

EEE 296T. Digital Speech Processing. 3 Units
Prerequisite(s): EEE 181 or instructor permission.
Term Typically Offered: Fall, Spring
The objective of this course is to cover the digital processing of speech signals. Topics include speech production and perception, speech processing in the time frequency domains. Short-time energy and short-time Fourier analysis, homomorphic and linear predictive coding methods. Also covered are speech coding, basic introduction of text-to-speech synthesis and speech recognition. Cross listed: CPE 296T.

EEE 299. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Open to qualified students who wish to pursue problems of their own choice. Projects must have approval and supervision of a faculty advisor.

EEE 500. Culminating Experience. 5 Units
Prerequisite(s): Advanced to candidacy and approval of the graduate coordinator.
Term Typically Offered: Fall, Spring
Completion of a thesis, project or comprehensive examination. Credit given upon successful completion of one of the following plans: Plan A: Master's Thesis, 5 units; Plan B: Master's Project, 2 units; or Plan C: Comprehensive Examination, 0 units.

Engineering (ENGR)

ENGR 1. Introduction to Engineering. 1 Unit
Prerequisite(s): Engineering major status or instructor permission
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
Engineering study skills, fundamentals of the engineering design process and problem solving, current engineering challenges. Distinctions and similarities of different engineering disciplines. The engineering profession, ethics, teamwork, communication skills. Course helps students make an informed choice of their engineering majors. Credit/No Credit

ENGR 1A. Fundamentals of Engineering. 3 Units
Prerequisite(s): Algebra and trigonometry or instructor permission.
Term Typically Offered: Fall, Spring
Problem solving skills needed in all areas of engineering offered at Sacramento State. Exposure to the different areas of engineering, and understanding of the relationship between them. Students will work in teams and complete hands-on engineering laboratory experiments and projects. Development of effective communication skills by presenting periodic oral and written reports. Computers will be used throughout. Lecture two hours, laboratory three hours.
Note: Not for degree credit.
Credit/No Credit

ENGR 2. Robotics Explorations. 3 Units
Prerequisite(s): Algebra and Trigonometry.
Term Typically Offered: Fall, Spring
Introduction to robotics. History of robotics, recent advances in the field, common devices such as sensors and actuators. Use of modular robotic kits. Students will be assigned competition based projects.

ENGR 6. Engineering Graphics and CADD (Computer Aided Drafting and Design). 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer
In-depth graphical analysis and solution of typical three-dimensional space problems by applying the principles of orthogonal projection. Fundamentals of interactive computer aided design and drafting. Preparation of engineering drawings utilizing the CAD system. Lecture two hours; laboratory three hours.
ENGR 6W.  Engineering Graphics and CADD Workshop.  1 Unit
Corequisite(s): ENGR 6.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in Engineering Graphics and CADD (Computer Aided Drafting and Design) to enhance students’ understanding of subject matter. Not for degree credit. Technical activity and laboratory, two hours.
Credit/No Credit

ENGR 7.  3-D CAD Solid Modeling.  3 Units
Prerequisite(s): ENGR 4 or ENGR 6.
Term Typically Offered: Fall, Spring

Applications of three-dimensional representation techniques as used in a typical CAD (computer aided drafting) software package (AutoCAD). Fundamentals employed in creating, modifying, analyzing and filing engineering drawings. This course will have a mechanical emphasis. Lecture two hours; laboratory three hours.

ENGR 17.  Introductory Circuit Analysis.  3 Units
Prerequisite(s): PHYS 11C; MATH 45; either the math or physics may be taken concurrently, but not both.
Term Typically Offered: Fall, Spring, Summer

Writing of mesh and node equations. DC and transient circuit analysis by linear differential equation techniques. Application of laws and theorems of Kirchoff, Ohm, Thevenin, Norton and maximum power transfer. Sinusoidal analysis using phasors, average power.

ENGR 17P.  Peer-Assisted Learning ENGR 17.  1 Unit
Corequisite(s): ENGR 17
Term Typically Offered: Fall, Spring

Students concurrently enrolled in ENGR 17P work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of ENGR 17 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.
Credit/No Credit

ENGR 17W.  Circuits Workshop.  1 Unit
Corequisite(s): ENGR 17.
Term Typically Offered: Fall, Spring, Summer

Elaborates on fundamentals and enhances students’ understanding of circuits.
Note: Not for degree credit.
Credit/No Credit

ENGR 30.  Analytic Mechanics: Statics.  3 Units
Prerequisite(s): PHYS 11A and MATH 31.
Term Typically Offered: Fall, Spring, Summer


ENGR 30P.  Peer-Assisted Learning ENGR 30.  1 Unit
Corequisite(s): ENGR 30
Term Typically Offered: Fall, Spring

Students concurrently enrolled in ENGR 30 work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of ENGR 30 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.
Credit/No Credit

ENGR 45.  Engineering Materials.  3 Units
Prerequisite(s): CHEM 1E and MATH 30. CHEM 1E may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Basic principles of mechanical, electrical and chemical behavior of metals, polymers and ceramics in engineering applications; topics include bonding, crystalline structure and imperfections, phase diagrams, corrosion, and electrical properties. Laboratory experiments demonstrate actual behavior of materials; topics include metallography, mechanical properties of metals and heat treatment. Lecture two hours; laboratory three hours.
Note: Fee course.

ENGR 45P.  Peer-Assisted Learning ENGR 45.  1 Unit
Corequisite(s): ENGR 45
Term Typically Offered: Fall, Spring

Students concurrently enrolled in ENGR 45 work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of ENGR 45 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.
Credit/No Credit

ENGR 45W.  Engineering Materials Workshop.  1 Unit
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in materials science to enhance students’ understanding of subject matter. Activity two hours.
Note: Can not be used for the degree requirement.
Credit/No Credit

ENGR 50.  Computational Methods and Applications.  3 Units
Prerequisite(s): Math 30 and PHYS 11A; Physics 11A may be taken concurrently
Term Typically Offered: Fall, Spring

Computational methods for solving problems in analysis and design. Introduces lower division students to the use of computer technology for the computations required to solve real world problems in science and engineering. Includes introduction to numerical techniques, introduction to structured programming, and graphic visualization. Practical applications of analysis and design using tools such as MATLAB and C++. Emphasis is on developing confidence and skill in finding computational solutions to practical science and engineering problems. Portable computer recommended. Lecture three hours.
ENGR 50P. Peer-Assisted Learning ENGR 50. 1 Unit
Corequisite(s): ENGR 50
Term Typically Offered: Fall, Spring

Students concurrently enrolled in ENGR 50 work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of ENGR 50 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.
Credit/No Credit

ENGR 60. MEP Orientation and Problem Solving. 2 Units
Term Typically Offered: Fall, Spring

Mandatory class for MEP freshman students on orientation to the University, its resources, facilities and faculty. Students will be encouraged to form a group atmosphere where they can freely interact with each other and value each other as resources. Students will be provided with instruction and materials on study skills, note taking, time management, preparing for tests and dealing with stress. Presentation by working engineers and field trips to engineering firms will be taken. Personal and professional development will also be part of the freshman orientations with leadership, public speaking and career planning being topics of discussion. Lecture one hour; activity two hours.

Note: Not for use as an engineering major technical elective and is not applicable to the baccalaureate degree.

Field trip(s) may be required.

ENGR 70. Engineering Mechanics. 3 Units
Prerequisite(s): PHYS 11A
Term Typically Offered: Fall, Spring


ENGR 96A. Interdisciplinary Topics in Engineering. 1 Unit
Term Typically Offered: Fall, Spring

Course will enable students to make an informed choice of their engineering majors, engage on interdisciplinary discussions between engineering fields, and equip them with relevant study skills. An introduction to engineering and the fundamentals of problem solving. Distinctions between different disciplines within engineering as well as other similarities. The engineering profession and ethics. Study skills for an engineering education.
Credit/No Credit

ENGR 105. Sustainable Design and Construction. 3 Units
Prerequisite(s): Upper division standing or instructor permission.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Strategies, analysis methods, and processes of environmentally conscious planning, design, construction, operation, deconstruction, and assessment of engineered facilities. Presents a systematic framework for problem solving, decision making, design, and construction using the principles of sustainability as guiding objectives. Tools, and techniques for gathering information, generating, analyzing, and evaluation alternatives, and developing implementation strategies are presented and demonstrated.

ENGR 106. Energy and Modern Life. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer

Our modern life is intimately and increasingly intertwined with energy utilization. This course deals with where energy comes from, how it is converted to desirable forms, where it is consumed, and what the consequences of this consumption are. In each case, historical prospective, current status, and future projections will be discussed. The ultimate objective of this course is to help students to make informed decisions on energy-related issues in their personal life and as responsible citizens of the society.

ENGR 110. Analytic Mechanics - Dynamics. 3 Units
Prerequisite(s): Student must pass ENGR 30, MATH 45, and MATH 32 or MATH 35 or MATH 100 with a minimum grade of C- or better.
Term Typically Offered: Fall, Spring, Summer

Fundamental principles of kinematics and kinetics, study of motion and force analysis of particles and rigid bodies, application to idealized structures and physical systems, introduction to free and forced vibrations.

ENGR 110W. Analytic Mechanics-Dynamics Workshop. 1 Unit
Corequisite(s): ENGR 110.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in dynamics to enhance students' understanding of subject matter. Activity two hours.

Note: Can not be used for degree requirement.
Credit/No Credit

ENGR 112. Mechanics Of Materials. 3 Units
Prerequisite(s): ENGR 30, ENGR 45; MATH 45; and either CE 4 or ENGR 6 (CE 4 or ENGR 6 may be taken concurrently).
Term Typically Offered: Fall, Spring, Summer

Stresses, strains and deformations in elastic behavior of axial force, torsion and bending members, and design applications. Statically indeterminate problems. Strain energy. Column stability.

ENGR 112P. Peer-Assisted Learning ENGR 112. 1 Unit
Corequisite(s): ENGR 112
Term Typically Offered: Fall, Spring

Students concurrently enrolled in ENGR 112 work through faculty-designed problems sets under the guidance of a trained student facilitator to improve their understanding of ENGR 112 content. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success. Discussion, 2 hours.
Credit/No Credit

ENGR 115. Statistics For Engineers. 3 Units
Prerequisite(s): MATH 31, may be taken concurrently.
Term Typically Offered: Fall, Spring

Application of statistical methods to the analysis of engineering and physical systems. Data collection, characteristics of distributions, probability, uses of normal distribution, linear and nonlinear regression analysis, hypothesis testing, and decision-making under uncertainty.
ENGR 17W. Networks Workshop. 1 Unit
Corequisite(s): EEE 117.
Term Typically Offered: Fall, Spring
Elaborates on fundamentals and enhances students' understanding of network basics.
Note: Not for degree credit.

Credit/No Credit
ENGR 120. Probability and Random Signals. 3 Units
Prerequisite(s): EEE 180; may be taken concurrently.
Term Typically Offered: Fall, Spring
Probability and random signals and their application in engineering systems. Topics include the random sample space model, concept of axiomatic probability, conditional probability, discrete and continuous random variables, probability density and distribution functions, functions and statistics of random variables, random vectors multivariate distributions, and correlation and covariance of random vectors. Applications include estimation, risk, signal detection, random signals and noise in linear systems, reliability, and estimation.

ENGR 124. Thermodynamics. 3 Units
Prerequisite(s): CHEM 1E, PHYS 11A, and MATH 32 or MATH 35 or MATH 100.
Term Typically Offered: Fall, Spring, Summer
Study of thermodynamic principles and their applications to engineering problems. Includes a study of the first and second laws, the properties of pure substances and ideal gas, gas/vapor mixtures, and an introduction to thermodynamic cycles.

ENGR 124W. Thermodynamics Workshop. 1 Unit
Corequisite(s): ENGR 124.
Term Typically Offered: Fall, Spring, Summer
Problem solving and discussion of topics in thermodynamics to enhance students' understanding of subject matter. Activity two hours.
Credit/No Credit
ENGR 132. Fluid Mechanics. 3 Units
Prerequisite(s): ENGR 110 (may be taken concurrently)
Term Typically Offered: Fall, Spring, Summer
Lectures and problems in the fundamental principles of incompressible and compressible fluid flow.

ENGR 140. Engineering Economics. 2 Units
Prerequisite(s): ENGR 17 or ENGR 30
Evaluation of economic consequences of engineering design proposals on projects. Emphasis on marginal or incremental economic analysis using Net Present Value, Annual Equivalence, Rate of Return and Benefit-Cost methods including multiple alternatives, taxes, uncertainty, inflation, organizational constraints and money market factors.

ENGR 150. Technical Communication. 3 Units
Prerequisite(s): Recommendation based on the results of the WPG or instructor permission
Term Typically Offered: Fall, Spring
Practical technical communication for engineers and computer scientists. Topics covered include practical technical writing, improving technical writing style, development of strategies to improve writing, oral presentations, running effective meetings, and the use of visual aids. The use of appropriate communication technology is emphasized throughout the course.

ENGR 181. Electronic Materials. 3 Units
Prerequisite(s): CHEM 1A, PHYS 11A, MATH 45.
Term Typically Offered: Fall, Spring
Basic principles of materials behavior pertaining to electronics applications. Topics include electrical conductivity, bonding, crystal structures, optical properties, magnetic properties, energy transfer, and the fundamentals of some simple electronic devices. Lecture 3 hours.

ENGR 193. Emerging Leaders in STEM. 1 Unit
Prerequisite(s): Sophomore standing (must have completed 30 units prior to registration).
Term Typically Offered: Fall, Spring
This course focuses on in-depth leadership training for professional STEM success. Students will explore aspects of effective leadership, uncover their own leadership capacity and skills, and enhance their leadership prowess by studying and applying recognized best practices. Topics include setting personal and professional goals, becoming a productive team member, how to step into a leadership role, how to motivate team members, and how to develop productive work-flow processes. Cross listed: NSM 193.

ENGR 194. Career Development Seminar. 1 Unit
Term Typically Offered: Fall, Spring
This course is designed for all ECS majors making career decisions and developing a job search strategy. Instruction will include: effective career planning strategies and techniques including skill assessment, interests, values, job search organization and strategies, goal setting, and time management as well as professional image development including interview techniques, resume writing, employment related correspondence and portfolio construction. Guest speakers from industry will be featured.
Credit/No Credit
ENGR 196B. Energy and Modern Life. 3 Units
Term Typically Offered: Fall, Spring
Our "modern life" is intimately and increasingly intertwined with energy utilization. This course deals with where energy comes from, how it is converted to desirable forms, where it is consumed, and what the consequences of this consumption are. In each case, historical prospective, current status, and future projections will be discussed. The ultimate objective of this course is to help students to make informed decisions on energy-related issues in their personal life and as responsible citizens of the society.

ENGR 196G. Advancing Leaders in STEM. 1 Unit
Prerequisite(s): ENGR 193 or NSM 193.
Term Typically Offered: Fall, Spring
This course continues the in-depth leadership training for professional STEM success introduced in ENGR/NSM 193. Students will apply and evaluate various strategies for effective leadership. Students will increase their capacity to recognize various situations and best leadership practices for each. Topics include setting personal and professional goals, becoming a productive team member, stepping into a leadership role, motivating team members, and developing productive work-flow processes.
ENGR 197. Seminar in Peer-Assisted Learning. 2 Units
Prerequisite(s): Instructor Permission
Corequisite(s): Acceptance as PAL Facilitator
Term Typically Offered: Fall, Spring
Classroom training and support for students concurrently serving as ECS Peer-Assisted Learning (PAL) facilitators. Classroom training will focus on facilitating problem-solving within groups, communicating effectively, and mentoring peers from diverse backgrounds. Action research on learning theory as applied to a classroom setting with culminating research presentation.

ENGR 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring, Summer
Individual projects or directed study.
Credit/No Credit

ENGR 201. Engineering Analysis I. 3 Units
Prerequisite(s): MATH 45.
Term Typically Offered: Fall, Spring
Mathematical methods for the solution of advanced engineering problems. Vector analysis, tensors and matrix algebra, complex variable techniques. The applications of these methods to practical engineering problems are demonstrated.

ENGR 202. Engineering Analysis II. 3 Units
Prerequisite(s): MATH 45.
Term Typically Offered: Fall, Spring
Mathematical methods for the solution of advanced engineering problems. Solutions of ordinary and partial differential equations, Fourier series and Laplace transforms and operational calculus. The applications of these methods to practical engineering problems are demonstrated.

ENGR 203. Engineering Statistics. 3 Units
Prerequisite(s): ENGR 115 or equivalent.
Term Typically Offered: Fall, Spring
Applications of statistics to engineering problems. Collection and analysis of data, sampling methods, design of experiments, probability theory, decision theory, analysis of variance, regression analysis, and mathematical curve fitting.

ENGR 206. Experimental Methods for Fluids. 3 Units
Prerequisite(s): ENGR 132, and either MATH 32 or ENGR 202
Term Typically Offered: Spring only
Experimental methods for flow and transport phenomena are studied in the lecture and applied in the lab/field. Topics include planar laser induced fluorescence, acoustic velocimetry, and sediment transport.

ENGR 296A. Quality Management Systems for Engineers. 3 Units
Prerequisite(s): Graduate Standing
Term Typically Offered: Fall, Spring
Designed to equip students with understanding of basic terms and definitions related to quality, a brief history and basic quality concepts, understanding measurement systems and tools, understanding differences of quality control (QC), quality assurance (QA) and quality management (QM), getting familiar with the applications of different tools, systems and standards and how to select proper tools for different quality requirements. Understanding basic inspection, auditing, assessment and evaluation techniques.
## ENGL 3M. Introduction to Academic Discourse for Multilingual Students

Term Typically Offered: Fall, Spring

Offers multilingual students a rigorous introduction to academic discourse at the college level in the areas of critical reading, critical thinking, academic discussion, and the use of academic research. Concentrates on using expository texts as a foundation for analyzing the rhetorical strategies and effectiveness of an argument. Promotes academic discussion and fosters intellectual curiosity and collaboration.

**Note:** Receives baccalaureate credit.

### ENGL General Education Area/Graduation Requirement

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<tr>
<td>ENGL 10M.</td>
<td>Academic Literacies I - Multilingual.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>3</td>
<td>Written Communication (A2)</td>
<td>ENGL 10.</td>
</tr>
<tr>
<td>ENGL 11M.</td>
<td>Academic Literacies II-Multilingual.</td>
<td>3 Units</td>
<td>Spring only</td>
<td>3</td>
<td>Written Communication (A2)</td>
<td>ENGL 10M.</td>
</tr>
<tr>
<td>ENGL 15.</td>
<td>College Language Skills.</td>
<td>4 Units</td>
<td>Fall, Spring</td>
<td>4</td>
<td></td>
<td>Score of 120-141 on the English Placement Test.</td>
</tr>
</tbody>
</table>

### Prerequisite(s) and Notes

- **ENGL 10:** Prerequisite(s): Score of 120-141 on the English Placement Test.
- **ENGL 15:** Prerequisite(s): Score of 120-141 on the English Placement Test.
- **ENGL 10M:** Prerequisite(s): ENGL 10.
- **ENGL 11M:** Prerequisite(s): ENGL 10M.
- **ENGL 11:** Prerequisite(s): ENGL 10.
- **ENGL 11:** Writing requirement
- **ENGL 15:** Utilizes computers.
ENGL 16. Structure Of English. 3 Units
Prerequisite(s): ENGL 5 or equivalent.
Term Typically Offered: Fall, Spring

Introduction to the terminology and structure of traditional grammar; analysis of the standard rules for agreement, punctuation, pronoun reference, etc.; introduction to social variance with respect to usage-standard vs. non-standard; and a description of the English sound system (vowels and consonants) and its relationship to standard orthography (sound/letter correspondences) spelling rules.

ENGL 20. College Composition II. 3 Units
Prerequisite(s): Completion of ENGL 5 or ENGL 5M OR ENGL 11 or ENGL 11M or equivalent with a C- or better; sophomore standing (must have completed 30 units prior to registration).
Term Typically Offered: Fall, Spring

Advanced writing that builds upon the critical thinking, reading, and writing processes introduced in ENGL 5 and ENGL 5M. Emphasizes rhetorical awareness by exploring reading and writing within diverse academic contexts with a focus on the situational nature of the standards, values, habits, conventions, and products of composition. Students will research and analyze different disciplinary genres, purposes, and audiences with the goals of understanding how to appropriately shape their writing for different readers and demonstrating this understanding through various written products.

Note: Writing requirement

ENGL 20M. College Composition II for Multilingual Students. 3 Units
Prerequisite(s): ENGL 5 or ENGL 5M or equivalent; sophomore standing
Term Typically Offered: Fall, Spring

Advanced writing for multilingual that builds upon the critical thinking, reading, and writing processes introduced in English 5 and 5M. Emphasizes rhetorical awareness by exploring reading and writing within diverse academic contexts focusing on the situational nature of the standards, values, habits, conventions, and products of composition. Students will research and analyze different disciplinary genres, purposes, and audiences with the goals of understanding how to appropriately shape their writing for different readers and demonstrating this understanding through various written products.

Note: Writing requirement

ENGL 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support, as well as explore gerontological concepts needed to respond to demographic changes in today's world.

ENGL 30A. Introduction to Creative Writing. 4 Units
Term Typically Offered: Fall, Spring

Workshop for students who have had little or no experience writing fiction or poetry and who are trying to decide if they are interested in becoming writers. Over the course of the semester, students write and polish several poems and short stories which they present for critique and commentary. In addition, they study the basic elements of fiction and poetry and learn how to use these effectively in their own work.

ENGL 30B. Introduction to Writing Fiction. 4 Units
Term Typically Offered: Fall, Spring

Workshop for students who have had little or no experience writing fiction. Students write and polish several short stories which they present for critique and commentary. In addition, they study the basic elements of plot, character, description, and dialogue and learn how to use these effectively in their own fiction.

ENGL 30C. Introduction to Poetry Writing. 4 Units
Term Typically Offered: Fall, Spring

Designed for lower division students who have little or no experience writing poetry. Students will write approximately twelve poems in a variety of forms and receive instruction and practice in the workshop method. In addition, they study the basic elements of poetic craft: rhythm, enjambment, basic figures of speech, etc., and how to use them effectively in their own poetry.

ENGL 40A. Introduction to British Literature I. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Major developments in the literature of England from Chaucer through the close of the Augustan Age.

ENGL 40B. Introduction to British Literature II. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Major developments in the literature of England from the Pre-Romantics and Romantics through the 20th century.

ENGL 50A. Introduction to American Literature I. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Major developments in the literature of America from the beginnings through the Civil War.

ENGL 50B. Introduction to American Literature II. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Major developments in American Literature from the end of the Civil War to the present.

ENGL 60. Active Reading Across the Curriculum. 2 Units
Term Typically Offered: Fall, Spring

Students will learn strategies and techniques to promote the social, personal, cognitive, and knowledge-building dimensions of reading. Students will learn new approaches to improve their engagement, comprehension, and analytical skills with a variety of genres in order to practice reading in more skillful ways.

Note: May be repeated for credit.

Credit/No Credit
ENGL 60M. READING FOR SPEED AND EFFICIENCY FOR MULTILINGUAL STUDENTS. 
2 UNITS
TERM TYPICALLY OFFERED: FALL, SPRING

Strategies and techniques to promote greater reading efficiency and flexibility as well as to increase reading speed for college-level multilingual readers. Classroom instruction includes drills to develop rate and comprehension as well as supplementary practice in the LSC reading lab.

NOTE: UTILIZES COMPUTERS; MAY BE REPEATED FOR CREDIT.

ENGL 65. INTRODUCTION TO WORLD LITERATURES IN ENGLISH. 
3 UNITS
GENERAL EDUCATION AREA/GRADUATION REQUIREMENT: HUMANITIES (AREA C2)
TERM TYPICALLY OFFERED: FALL, SPRING

An introduction to world literature written in English that places writers and their works within colonial, post-colonial, and literary contexts. Texts may come from Africa, India, Southeast Asia, the Middle East, the Caribbean, Canada, and non-English Britain.

ENGL 85. GRAMMAR FOR MULTILINGUAL WRITERS. 
2 UNITS
TERM TYPICALLY OFFERED: SPRING ONLY

COVERS THE MAJOR SYSTEMS OF ENGLISH GRAMMAR IN THE CONTEXT OF READING PASSAGES AND THE STUDENTS' OWN WRITING. PRACTICE IN EDITING AUTHENTIC WRITING.

NOTE: MAY BE REPEATED FOR CREDIT.

ENGL 86. COLLEGE LANGUAGE SKILLS FOR MULTILINGUAL STUDENTS. 
4 UNITS
PREREQUISITE(S): SCORE OF 120-141 ON THE ENGLISH PLACEMENT TEST OR SCORE OF 2 OR 3 ON THE ENGLISH DIAGNOSTIC TEST.
TERM TYPICALLY OFFERED: FALL, SPRING

FOCUS ON THE INTERRELATIONSHIPS OF READING AND WRITING, WITH EMPHASIS ON DEVELOPMENT, ORGANIZATION, GRAMMAR, AND CLARITY OF COMMUNICATION. LECTURE THREE HOURS; LAB TWO HOURS.

NOTE: UTILIZES COMPUTERS.

ENGL 87. BASIC WRITING SKILLS FOR MULTILINGUAL STUDENTS. 
3 UNITS
PREREQUISITE(S): SCORE OF 142-145 ON ENGLISH PLACEMENT TEST OR SCORE OF 4 ON ENGLISH DIAGNOSTIC TEST, OR CREDIT IN ENGL 86.
TERM TYPICALLY OFFERED: FALL, SPRING

EMPHASIZES WRITING AND LANGUAGE DEVELOPMENT. INSTRUCTION IN READING AND ESSAY WRITING, FROM IDEA GENERATION TO REVISION AND EDITING.

CREDIT/NO CREDIT

ENGL 90A. MODERN SHORT PLAYS. 
3 UNITS
GENERAL EDUCATION AREA/GRADUATION REQUIREMENT: HUMANITIES (AREA C2)
TERM TYPICALLY OFFERED: FALL, SPRING

ENGL 97. INTRODUCTION TO FILM STUDIES. 
3 UNITS
TERM TYPICALLY OFFERED: FALL, SPRING

EXAMINES CINEMATIC TECHNIQUES, STYLES, VOCABULARY, AND DISCOURSES. INTRODUCES DIFFERENT WAYS FOR WRITING ABOUT FILMS AND FOR WORKING WITH A VARIETY OF CINEMATIC TERMS. FILM FORM AND STYLE WILL BE STUDIED BY EXAMINING SPECIFIC SCENES IN FILMS FROM DIFFERENT GENRES, NATIONS, AND DIRECTORS. FILMS USED THROUGHOUT THE COURSE WILL BE SELECTED FROM DIFFERENT HISTORICAL PERIODS.

CROSS-LISTED: FILM 97.

ENGL 98. INTRODUCTION TO FILM DISCOURSE AND ANALYSIS. 
4 UNITS
TERM TYPICALLY OFFERED: FALL, SPRING

AN INTRODUCTION TO CINEMATIC VOCABULARY, FILM HISTORY, AND FILM ANALYSIS. THROUGH THIS INTRODUCTION, STUDENTS WILL LEARN HOW TO WRITE ABOUT AND ANALYZE FILM. THE COURSE PREPARES STUDENTS FOR UPPER DIVISION WORK IN FILM STUDIES AND CULTURAL ANALYSIS. THE COURSE INCLUDES A SIGNIFICANT RESEARCH AND/OR CREATIVE PROJECT.

ENGL 100B. LITERARY THEORY. 
4 UNITS
TERM TYPICALLY OFFERED: FALL, SPRING

DESIGNED TO ENGAGE STUDENTS IN A PRODUCTIVE CONVERSATION ABOUT THE VARIOUS THEORIES OF LITERATURE AND READING THAT CURRENTLY INFORM LITERARY STUDIES. PROVIDES A HISTORICAL OVERVIEW OF MODERN THEORY INCLUDING, BUT NOT LIMITED TO, FORMALISM, STRUCTURALISM, PSYCHOANALYSIS, MARXISM, DECONSTRUCTION, AND FEMINISM. STUDENTS ARE ENCOURAGED TO APPLY THESE THEORIES TO THEIR PRACTICE OF LITERARY CRITICISM AND TO ASSESS THE STRENGTHS AND WEAKNESSES OF EACH PARADIGM.

ENGL 100Z. TOPICS IN LITERARY THEORY AND CRITICISM. 
4 UNITS
PREREQUISITE(S): GWAR CERTIFICATION BEFORE FALL 09; OR WPJ SCORE OF 80+; OR 3-UNIT PLACEMENT IN ENGL 109M OR ENGL 109W; OR 4-UNIT PLACEMENT IN ENGL 109M OR ENGL 109W AND CO-ENROLLMENT IN ENGL 109X; OR WPJ SCORE 70 OR 71 AND CO-ENROLLMENT IN ENGL 109X.
GENERAL EDUCATION AREA/GRADUATION REQUIREMENT: WRITING INTENSIVE GRADUATION REQUIREMENT (WI)
TERM TYPICALLY OFFERED: FALL, SPRING

INVESTIGATES ONE OR MORE SCHOOLS OF LITERARY THEORY OR CRITICISM AND THEIR APPLICATION TO WORKS OF LITERATURE AND/OR FILM.

NOTE: MAY BE REPEATED TWICE FOR CREDIT AS LONG AS TOPICS VARY; WRITING INTENSIVE

ENGL 105. FILM THEORY AND CRITICISM. 
4 UNITS
TERM TYPICALLY OFFERED: FALL, SPRING

SURVEY OF FILM THEORY FOCUSING ON AUTEURISM, CLASS, EXPRESSIONISM, FORMALISM, GENRE, GENDER, NARRATOLOGY, NEOREALISM, PHENOMENOLOGY, POST STRUCTURALISM, PSYCHOANALYSIS, REALISM, SEMIOLOGY, STRUCTURALISM AND THIRD CINEMA.
ENGL 109M. Preparing to Write in the Disciplines - Multilingual. 3 Units
Prerequisite(s): ENGL 20 with at least a C- grade or better.
Term Typically Offered: Fall, Spring

Provides intensive practice for multilingual writers in prewriting, drafting, revising, and editing academic writing. Students work with a TESOL-trained instructor to research, analyze, reflect on, and write about the kinds of writing produced in academic disciplines. Students produce a considerable amount of writing such as informal reading responses, rhetorical analyses, and an extended academic research project. Students will submit their writing late in the semester in a Portfolio, from which they will receive a Writing Placement for Juniors.

Note: This course has the same learning outcomes as English 109W Preparing to Write in the Disciplines, but it is taught by an instructor trained to work with multilingual writers.

ENGL 109W. Preparing to Write in the Disciplines. 3 Units
Prerequisite(s): English 20 with a C- grade or better.
Term Typically Offered: Fall, Spring

Provides intensive practice in prewriting, drafting, revising, and editing academic writing. Students research, analyze, reflect on, and write about the kinds of writing produced in academic disciplines. Students produce a considerable amount of writing such as informal reading responses, rhetorical analyses, and an extended academic research project. Students will submit their writing late in the semester in a Portfolio, from which they will receive a Writing Placement for Juniors.

ENGL 109X. Writing-Intensive Workshop. 1 Unit
Prerequisite(s): Completion of Writing Placement for Juniors.
Corequisite(s): Writing-intensive upper-division course.
Term Typically Offered: Fall, Spring

Student-centered group tutorial which offers supplemental instruction in elements of academic writing taught in writing-intensive upper-division courses. It provides support to students concurrently enrolled in writing-intensive upper-division courses throughout the writing process, including drafting, revising, and editing.

Credit/No Credit

ENGL 110A. Linguistics and the English Language. 3 Units
Term Typically Offered: Fall, Spring

Survey of modern English and the basic concepts of modern linguistics. Students will learn how linguists view regularity in language, as exemplified by data from English. Students will also learn how English spelling is an imperfect representation of sounds, how the sound system of English operates, how words and sentences are formed and may be analyzed, how the language changes over time, space, and social setting, and how the language is learned by children and adults.

ENGL 110B. History of the English Language. 3 Units
Term Typically Offered: Fall, Spring

Survey of the linguistic and social history of the English language, tracing its growth from a minor dialect of the Germanic family to one of the most widely spoken languages of the world. Topics include structural change in the language, vocabulary growth, and variation in English around the world.

ENGL 110C. Technology in Second Language Teaching. 3 Units
Term Typically Offered: Summer only

Prepares language teachers to effectively integrate technology into classrooms. Examines theoretical rationales for using computer-assisted language learning, the range of uses of technology in classrooms, and best practice. Develops students' technological literacy and ability to critically evaluate computer-assisted language teaching materials. Cross Listed: ENGL 210C; only one may be counted for credit.

ENGL 110J. Traditional Grammar and Standard Usage. 3 Units
Term Typically Offered: Fall, Spring

Develops a thorough understanding of basic issues in traditional English grammar and usage. It emphasizes knowledge of traditional grammar needed by single-subject credential students expecting to teach high school English. Topics include parts of speech, functions of words in sentences, phrases and clauses, and punctuation. Students will learn to apply their knowledge of grammar in composition instruction and marking essays. Students will also study use of specific grammatical features in developing rhetorical styles.

ENGL 110P. Second Language Learning and Teaching. 3 Units
Term Typically Offered: Fall, Spring

Surveys the major issues involved in the acquisition of second languages and in teaching second language (L2) students. Topics covered include differences between first and second language acquisition, including age, biology, cognitive styles, personality, sociocultural factors, and linguistic variables; in addition, various models, techniques and approaches to L2 teaching are covered. Special attention is given to the unique demographics and characteristics of language minority students in California’s public schools.

ENGL 110Q. English Grammar for ESL Teachers. 3 Units
Term Typically Offered: Fall, Spring

A survey of those aspects of English grammar that are relevant to teaching second language learners of English. The emphasis is on elements of simple and complex sentences, particularly the structure of noun phrases, the meanings of verb forms, and the expression of adverbial meanings.

ENGL 1106A. Studies in Applied Linguistics. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Students learn the basics of the English system of phonology and morphology. Takes an integrated approach synthesizing the issues of phonics, schema-building, and whole language strategies in teaching reading and writing to young learners. Students will also learn the importance of first and second language acquisition for elementary school students. Evaluation includes classroom examinations, and students will undertake a detailed case study of one child learning to read and write.
ENGL 116B. Children's Literary Classics.  3 Units
Prerequisite(s): Successful completion of at least 60 units (junior standing).
Term Typically Offered: Fall, Spring

Introduction to the rich profusion of children's literature from a variety of cultures and countries and provides the opportunity to respond to this literature creatively and personally. Students will become familiar with the basic terminology of literary analysis -- themes, irony, point-of-view, etc.-- in order to deepen and enrich their experiences with the fiction, drama, and poetry available to young people. The readings are balanced for gender, culture, and ethnic concerns.

ENGL 120A. Advanced Composition.  4 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Intensive writing workshop in which student writing is the focus. Students will engage in a writing process that will include feedback from peers and the instructor throughout the process. This writing process may occur in a variety of rhetorical situations and genres. Through reflection on their writing products and processes, students will gain an awareness of themselves as writers. By the end of the course students will complete an extensive research project and a guided project focused on academic inquiry.

Note: ENGL 120A is a requirement for English majors.

ENGL 120C. Topics in Composition.  4 Units
Prerequisite(s): ENGL 20 or ENGL 120A. GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Offers a rotating series of topics relevant to composition studies, such as technology-based writing, writing across the curriculum, critical literacy, etc. Introduces students to the theory and practice of the field under consideration. Regardless of the topics, students will explore the major scholarly works of the field and produce writing that analyzes and utilizes the concepts in the area under consideration.

Note: May be repeated for credit as long as topic differs.

ENGL 120E. Digital Writing and Rhetoric.  4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only – even years

Serves as an introduction to theories about and forms of digital writing while also providing students with opportunities to make digital arguments that reflect on digital media themselves. Introduces students to basic skills in interface and narrative design including typography, layout, color, imagery, and media integration. The course focuses on teaching students how to develop what they already know about rhetoric and writing while also helping them apply those rhetorical skills within digital spaces.

ENGL 120L. Community Literacy and Public Rhetorics.  4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Examines how writers navigate the intersections and tensions between academic, professional, and community writing to engage local publics through a variety of literacy practices. Students will be introduced to theories and methods from community writing studies to construct a framework for analyzing and composing rhetoric that enacts change in diverse publics. Students will inquire, discover, and act beyond the classroom through a structured service learning project.

ENGL 120P. Professional Writing.  4 Units
Prerequisite(s): ENGL 20 or ENGL 120A. GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Teaches students the most common professional writing genres used in career fields ranging from business to public relations to nonprofit management. Focuses on how business or technical communication is different from academic styles and introduces students to the current writing challenges and practices in these fields. Students will gain instruction and practice composing various essential writing formats, such as memos, reports, and feasibility studies.

ENGL 120R. Topics in Rhetoric.  4 Units
Prerequisite(s): Complete ENGL 20 or ENGL 120A; GWAR certification before Fall 09; or WPJ score of 80+ or above; or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL 109X; or WPJ score 70/71 + co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Offers a rotating series of topics relevant to rhetorical studies, such as digital rhetoric, cultural rhetorics, contemporary rhetorical theories, etc. Introduces students to the theory and practice of the field under consideration. Regardless of the topic, students will explore the major scholarly works of the field and produce writing that analyzes and utilizes the concepts in the area under consideration.

Note: May be repeated for credit as long as topic differs.

ENGL 120S. Writing in the Social Sciences.  3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Introduces principles of analyzing and composing texts appropriate for various social science disciplines. Provides practice in analyzing texts in social science journals and in writing abstracts, summaries, and literature reviews. Appropriate for upper-division undergraduate students and beginning graduate students in TESOL and in other social science programs (e.g., psychology, sociology, anthropology, etc.)
ENGL 120T. Technical Writing. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Teaches students the skills of a technical communicator capable of translating information created by technical experts for non-expert readers, whether those are business decision makers or members of the public. Focuses on how technical communication is different from academic styles and introduces students to the current writing challenges and practices. Prepares students to craft messages using ever-changing and increasingly powerful, integrated media. 4 units

ENGL 120X. MLA and APA Style Guides. 1 Unit
Corequisite(s): ENGL 120A, ENGL 198T, a Writing Intensive course, or instructor permission.
Term Typically Offered: Fall, Spring

Students will learn how to format papers, cite sources, and integrate in-text citations into their work according to MLA and APA formatting and style guides.

ENGL 121. Writing Center Tutoring. 1 Unit
Term Typically Offered: Fall, Spring

One-on-one tutoring in reading and writing at the University Writing Center. Student writers will meet with assigned tutor an hour a week. Topics could include understanding assignments, prewriting, revising, reading strategies, editing strategies, integrating research, etc. Students must sign up for a regular tutoring session time during week two of the semester at the University Writing Center.
Note: May be repeated for credit.

ENGL 125A. Literature and Film for Adolescents. 4 Units
Prerequisite(s): ENGL 20 or ENGL 120A and COMS 104 or COMS 4
Term Typically Offered: Fall, Spring

Provides prospective secondary school English teachers with an opportunity to think through important issues related to the planning and implementation of literature programs for adolescents. Equal emphasis will be given to the study of poetry, fiction, non-fiction, drama, and film. The focus will embrace literature from a variety of cultures and periods.

ENGL 125B. Writing and the Young Writer. 3 Units
Prerequisite(s): ENGL 20 or ENGL 120A; and ENGL 110J or ENGL 110Q or ENGL 16
Term Typically Offered: Fall, Spring

Provides an introduction to teaching writing in high school and operates on the assumption that the need for and impact of writing competence for students is interdisciplinary and pervasive. The class has a workshop format, and students will practice many of the strategies studied. The texts will cover theoretical issues in teaching composition and practical methods of implementing theory in public school classrooms.

ENGL 125E. Academic Reading and Writing for Second Language Students. 3 Units
Term Typically Offered: Fall, Spring

Helps prospective teachers to better understand the unique needs of second language students. Covers second language acquisition theory with particular emphasis on the teaching of reading and writing for academic purposes. Practical skills covered will all focus on the particular needs of second language readers and writers, for instance, how to help them to read more efficiently and with greater comprehension, how to write more fluently and accurately in ways that meet the needs and expectations of the academic discourse community.

ENGL 125F. Teaching Oral Skills. 3 Units
Term Typically Offered: Fall, Spring

Provides students with both the necessary background knowledge as well as the specific pedagogical tools for promoting proficiency in spoken interaction, listening skills, and pronunciation in second language/foreign language contexts, specifically, English as a Second Language (ESL) and English as a Foreign Language (EFL).

ENGL 130A. Intermediate Fiction Writing. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30B
Term Typically Offered: Fall, Spring

Workshop for students who already have some experience writing short stories. Students write and polish several stories which they present for critique and commentary. They also take an in-depth look at the theory and craft of fiction-writing, analyze the stories of contemporary writers from diverse ethnic and cultural backgrounds, and learn how to apply what they have learned to their own writing.

ENGL 130B. Intermediate Poetry Writing. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30C.
Term Typically Offered: Fall, Spring

Designed for students interested in developing their poetic expression beyond the basics covered in ENGL 30A and ENGL 30C. Emphasizes practice and experimentation with meters, verse forms, and figures of speech. Focal points for analysis and discussion will be poems and essays by contemporary poets of various aesthetic orientations, as well as work produced by members of the class.

ENGL 130C. Special Topics in Poetry Writing. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30C.
Term Typically Offered: Fall, Spring

Offers an in-depth study of prosody including the principles of meter (line measurement) and scansion (the marking of stressed syllables to determine meter and rhythm), as well as examining the relationship of these principles to verse in English. Examines a variety of poetic schemes, tropes, and forms. Three hours, lecture and guided practice.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
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<tr>
<td>ENGL 130F</td>
<td>Writing For Television</td>
<td>4</td>
<td>Fall, Spring</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Focuses on training students in video literacy and script writing for the video explosion: educational media, documentaries, and interactive programs.</td>
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<td>ENGL 130G</td>
<td>Between Genres: Flash Fiction/Prose Poetry</td>
<td>4</td>
<td>Fall, Spring</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Offers undergraduate poets and fiction writers the opportunity to explore/experiment with the long-standing anti-genre of the poetry/fiction hybrid. For 200 years writers around the world have noted the symbiosis between the genres of poetry and prose. Currently, some of America's most exciting writers are currently exploring the margins between prose poetry, flash fiction, and related evolving forms. Prerequisite: ENGL 30A, ENGL 30B, or ENGL 30C.</td>
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<td>ENGL 130J</td>
<td>Writing Feature Film Scripts</td>
<td>4</td>
<td>Fall, Spring</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Workshop designed for students who have little or no previous experience writing for the screen. Students write the synopsis, treatment, and part of the master scene script for a feature film, all of which are polished and revised in a workshop setting. Special attention is given to the dynamics of plot, characterization, and dialogue with an emphasis on the difference between writing for film and writing other kinds of fiction.</td>
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<td>ENGL 130M</td>
<td>Art of Autobiography</td>
<td>4</td>
<td>Fall, Spring</td>
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<td>Prerequisite(s):</td>
<td>At least a C- grade in ENGL 30A or 30B, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Students keep a journal and write several drafts of an autobiographical essay which they present for critique and commentary. They also read and analyze several biographies and journals by writers from diverse ethnic and cultural backgrounds.</td>
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<td>ENGL 130N</td>
<td>Creative Non-Fiction</td>
<td>4</td>
<td>Fall, Spring</td>
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<td>Prerequisite(s):</td>
<td>ENGL 30A or ENGL 30B.</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Students write several non-fiction pieces which may include (but are not limited to) autobiography, memoir, nature-writing, travel writing, and literary memoir. Students need not previously have had fiction-writing experience to take this course, but they must be prepared to write literary non-fiction of high quality.</td>
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<td>ENGL 130R</td>
<td>Playwriting</td>
<td>4</td>
<td>Fall, Spring</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>This course will explore the fundamentals of playwriting, as practiced in the real-world, contemporary commercial and independent theatre markets. It will introduce the writer to the vocabulary and techniques used to tell a story on the stage, and examine the differences between stage and screen. Exercises will illustrate the basic two-act structure, as well as less standard, non-linear, and innovative structures. This class will culminate in students writing the first act of a full-length play.</td>
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<td>ENGL 130S</td>
<td>Advanced Writing Feature Film Scripts</td>
<td>4</td>
<td>Fall, Spring</td>
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<td>Prerequisite(s):</td>
<td>ENGL 130J Writing Feature Film Scripts, or consent of instructor</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>This course will focus on completing a first draft of a screenplay for a feature film. This course will have a strong emphasis on rewriting. There will be lectures, class workshops, peer reviews, and individual writing assignments.</td>
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<td>ENGL 130T</td>
<td>Advanced Writing for Television</td>
<td>4</td>
<td>Fall, Spring</td>
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<td>Prerequisite(s):</td>
<td>ENGL 130F or consent of instructor</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>This class will build on the knowledge acquired in ENGL 130F. Students will write, rewrite, and complete a full length pilot for an original television show. This course will have a strong emphasis on rewriting. We will analyze modern television shows and discuss what makes them successful. The goal of this class is to help students develop a professional portfolio to one day work in the television writing industry.</td>
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<td>ENGL 130W</td>
<td>Advanced Poetry Writing</td>
<td>3</td>
<td>Fall, Spring</td>
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<td>Prerequisite(s):</td>
<td>ENGL 30A or ENGL 30C</td>
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<td>Theory and practice in the writing of poetry at the advanced level. Consists primarily of the preparation and evaluation of student work. Students are also assigned supplemental readings designed to help them determine their affinity (or lack of affinity) with current poetic theory and practice.</td>
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<td>ENGL 130Y</td>
<td>Creative Writing for Young Audiences</td>
<td>4</td>
<td>Fall, Spring</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>In this creative writing course students will learn how to write children's literature in a wide array of genres, including picture book texts, early readers, poetry, and middle grade and young adult novels. The course will give an overview of these genres and through portfolio assignments allow students to sample different genres and gain expertise in one particular genre. Prerequisite ENGL 30A or ENGL 30C or ENGL 30B</td>
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<td>ENGL 140A</td>
<td>Introduction to Old English</td>
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<td>Fall, Spring</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Study of the grammar of Old English with particular attention to its survival in the modern language. Shows students how to use their instincts as native speakers of Modern English to acquire a good working sense of the original form of the language. Readings in biblical and historical texts will be supplemented by an introduction to Old English paleography which will allow students to access literature in the original.</td>
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<td>ENGL 140B</td>
<td>Medieval Literature</td>
<td>4</td>
<td>Fall, Spring</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Survey of English literature from 1100 to 1500. Students will read texts from the various genres of Middle English literature--romance, lyric, ballad, lay, drama, history--in the dialects of origin. Focuses on how medieval thought both differs from and anticipates modern thought.</td>
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ENGL 140C. The English Renaissance. 4 Units
Term Typically Offered: Fall, Spring

The early modern period was a time of exploration, experimentation, and creativity during the sixteenth and early seventeenth centuries in England. The writers of the age include Queen Elizabeth I, Lady Mary Wroth, Sir Thomas Wyatt, Sir Philip Sidney, William Shakespeare, Christopher Marlowe, Edmund Spenser, John Donne, Amelia Lanyer, and John Milton. In this course, students will explore and analyze representative works by these writers and others, making connections between the writers and the cultural context in which they lived.

ENGL 140D. The English Renaissance Drama. 4 Units
Term Typically Offered: Fall, Spring

In-depth examination of the drama of late 17th and 18th-century England. Course includes the study of the age itself, the social and political issues of the time as well as its dramatic art, including many of its comedies, which the course it examines in their historical and cultural contexts.

ENGL 140E. Restoration & Eighteenth-Century Drama. 4 Units
Term Typically Offered: Fall, Spring

A period survey of British literature from the Restoration of King Charles II in 1660 through the stirrings of British Romanticism in the last decades of the eighteenth century. Authors to be covered will likely include Dryden, Behn, Rochester, Finch, Swift, Pope, Gay, Montagu, Addison & Steele, Gray, Johnson, Equiano, Goldsmith, and Sheridan.

ENGL 140F. British Literature, 1660-1780. 4 Units
Term Typically Offered: Fall, Spring

The novel as we know it today was invented in the 18th century. Students study the cultural origins of the novel and read several major works by of 18th-century novelists such as Daniel Defoe, Samuel Richardson, Henry Fielding, Fanny Burney, Ann Radcliffe, Laurence Sterne, and Jane Austen, among others.

ENGL 140G. The Eighteenth-Century British Novel. 4 Units
Term Typically Offered: Fall, Spring

Devoted to exploring the fiction of nineteenth-century British novelists from Jane Austen through Thomas Hardy. Particular attention is paid to prevalent genres, especially the mixing of romance and realism, narrative and plot structures, imagery patterns, character types and anti-types, and thematic concerns, which usually involve some sort of conflict between the self and society, the individual and institutions (or the environment).

ENGL 140H. Nineteenth-Century Novel. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of English drama written in the period, roughly, from 1500-1660. Provides a survey of playwrights and genres from the entire period or a focus on a particular theme or a grouping of authors. Students will study texts as well as the historical, political, cultural, social, sexual, and religious contexts in which the playwrights of the era composed their works.

ENGL 140J. The Victorian Imagination. 4 Units
Term Typically Offered: Fall, Spring

Explores themes and forms of the Victorian period, stressing the evolving role of the artist and the growth of self-consciousness in verse and prose. Victorian themes like the divided self, the love-duty conflict, and the inevitable crises of faith are recurring problems in the obsessive Victorian debate between flesh and spirit. Analyzes this dialectic in the poetry of Browning, Tennyson, the Pre-Raphaelites and Decadents, in a representative novel, and in the prose of Ruskin, Mill, and Pater.

ENGL 140K. Modern British Literature, 1900-Present. 3 Units
Term Typically Offered: Fall, Spring

In-depth examination of some of the important British texts in fiction, poetry, and drama from 1900 to the present. The works dramatize the important historical, social and aesthetic changes in a century which saw the collapse of the British Empire, the spread of democracy, the rise of Modernism and the Absurd in the arts, and the continuing struggle of the personal statement in an impersonal world.

ENGL 140L. Modern British Fiction, 1900-Present. 4 Units
Term Typically Offered: Fall, Spring

Survey of British fiction from 1900 to the present which covers the struggle between traditional Realism and Modernism in the novel, the decline and fall of the British Empire and the rise of the former colonies as purveyors of fictions in English in their own right, and the development of new experimental forms in the last decades of the 20th century.

ENGL 140M. Modern British Drama, 1889-Present. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

In-depth examination of British drama from the arrival of Ibsen's A Doll's House on the British stage (and Shaw's publication of his influential treatise 'The Quintessence of Ibsenism), both laying to rest for serious artists the moralistic, bourgeois theater of the late 19th century. Includes study of various dramatic movements in Britain, including realism, absurdist, kitchen-sink naturalism, surrealism, epic theater, expressionism.

ENGL 140N. Modern British Drama, 1889-Present. 4 Units
Term Typically Offered: Fall, Spring

Documents the way the British have written about themselves and the world to which they belong in the 20th century. Includes the plays of Shaw, Coward, Brecht, Lessing, and others, as well as important work in the theatre of the absurd, the kitchen-sink, the lyric theatre, and the musical as purveyors of narratives in English in their own right, and the development of new experimental forms in the last decades of the 20th century.

ENGL 140O. Renaissance Drama. 4 Units
Term Typically Offered: Fall, Spring

Examines British literature and culture during the late sixteenth and early seventeenth centuries. Topics may include war and revolution, tourism and the picturesque, genius and imagination, the Gothic, Romantic orientalism and literature and the environment. Writers covered may include Smith, Blake, Wollstonecraft, the Wordsworths, Scott, Coleridge, Austen, de Quincey, Byron, the Shelleys, Hemans and Keats.

ENGL 140P. Renaissance Drama. 4 Units
Term Typically Offered: Fall, Spring

Topics in periods and movements in the literature of Britain. Course may focus on a limited period (e.g. The Edwardian Age), a single author (e.g. Anthony Trollope or Margery Kempe), an authorial dialogue (e.g. Shakespeare and Wilde or G.M. Hopkins and Christina Rossetti), or a unique literary feature, theme, or structure (e.g. the Sonnet or Literature and the Law).
ENGL 141A. The Essential Shakespeare. 4 Units
General Education Area/Graduation Requirement: Writing Intensive
Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Exploration of Shakespeare's most representative works. The course syllabus usually includes his sonnets and non-dramatic poetry as well as plays from both early and later periods of his career. Class discussions will include Shakespeare's typical themes, conventions, and techniques, his development of character and situation, and his relationship to the culture and values of both his own and subsequent ages.

ENGL 141B. Shakespop: Shakespeare and Popular Culture. 3 Units
Term Typically Offered: Fall, Spring

The works of William Shakespeare circulate in our culture in a wide variety of ways - in music, art, dance, film, television, advertising, management manuals, self-help books, etc. sometimes staying close to the original texts and at other times barly skimming the surface for cultural capital. This course will examine the dynamic relationships between Shakespeare in its diverse forms and popular culture by examining various instances of Shakespearean appropriation and adaptation. Themes include Shakespeare in Love, War, Business, and Youth Culture.

ENGL 145A. Chaucer - Canterbury Tales. 4 Units
Term Typically Offered: Fall, Spring

Reading of The Canterbury Tales in Middle English. Chaucer's great unfinished poem will be investigated as the pinnacle of literary achievement in the English Middle Ages, a work that attempts, like Dante's Divine Comedy, to account for all the issues and problems of human life as medieval thinkers had come to regard them.

ENGL 145B. Shakespeare - Early Plays, 1592-1600. 3 Units
Term Typically Offered: Fall, Spring

Exploration of representative plays from roughly the first half of Shakespeare's career as a dramatist, including early and middle comedies (e.g., A Midsummer Night's Dream, As You Like It), early and middle tragedies (e.g., Richard II, Henry IV, Part One), while situating the plays within their cultural and historical context.

ENGL 145C. Shakespeare - Later Plays, 1600-1612. 4 Units
Term Typically Offered: Fall, Spring

Exploration of representative plays from roughly the second half of Shakespeare's career as a dramatist, with emphasis on the major tragedies (Hamlet, Othello, King Lear, and Macbeth), but also including the middle comedies (e.g., Twelfth Night, Measure for Measure) and the later romances (e.g., The Winter's Tale, The Tempest), while situating the plays within their cultural and historic contexts.

ENGL 145I. John Milton. 3 Units
Term Typically Offered: Fall, Spring

Students study the major poems of Milton-among them Comus, "Lycidas," Paradise Lost, Paradise Regained, and Samson Agonistes-giving special attention to Paradise Lost. Students will also consider such prose works as Of Education, the divorce tracts, and Areopagitica, Milton's famous argument against censorship. Finally, it includes lectures on the Puritan Revolution of 1640-60 and Milton's role in it.

ENGL 150A. Early American Literature. 4 Units
Term Typically Offered: Fall, Spring

Focusing on the literature of early American settlement, the literature that first defined our nation. Students analyze such works as oral literature of Native America, earliest writings of Spanish explorers, Puritan settlement literature, Captivity Narratives of the 17th through 19th centuries, Witchcraft Narratives, and Slave Narratives. Students might also study connections to later works (e.g., Puritan literature and Hawthorne's Scarlet Letter, Witchcraft narratives and Miller's The Crucible).

ENGL 150B. American Romanticism. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on one of the great periods in the history of literature. It has appropriately been called the American Renaissance. Writers covered might include but not be limited to Poe, Hawthorne, Emerson, Thoreau, Fuller, Melville, Whitman, Dickinson.

ENGL 150C. American Realism. 3 Units
Term Typically Offered: Fall, Spring

Examines American literature written during the period after the Civil War, a time of unprecedented change that transformed America from rural, agricultural, and homogeneous culture into its urban, industrial, heterogeneous counterpart. It investigates how the literature of this period reflected these changes and simultaneously tried to reconcile them with the values of an earlier America. The magnitude of this endeavor produced a remarkable literary heritage for the 20th century.

ENGL 150D. American Modernist Fiction, 1910-1950. 4 Units
Term Typically Offered: Fall, Spring

Survey of the important historical movements and conflicts in American literature, including the development of Realism and Naturalism, the experimental Modernist movement of the twenties, the populist literature of the thirties and the development of psychological realism in the forties.

ENGL 150E. American Poetry, 1910-1950. 4 Units
Term Typically Offered: Fall, Spring

Many scholars argue that American literature's greatest achievement in the twentieth century literature is in the genre of poetry. Offers a survey of such movements as the "New Poetry," Modernism, Imagism, Primitivism, and Postmodernism. Major figures will include, but not be limited to, Robinson, Frost, Eliot, Pound, Millay, Cummings, Stevens, W.C. Williams, Jeffers, Moore, and Hughes.

ENGL 150F. Contemporary American Fiction, 1950-Present. 3 Units
Term Typically Offered: Fall, Spring

Surveys American fiction in the decades immediately following World War II. These novels deal with themes such as exhaustion, social unrest, historical conspiracy, and political coercion. Representative figures include, but are not limited to, Ralph Ellison, John Barth, Philip Roth, Joan Didion, Thomas Berger, Vladimir Nabokov, Marilynne Robinson, Thomas Pynchon.
Exams the richness of American poetry since World War II giving some consideration to the impact of recent world poetry brought to us by our skillful poet/translator.

**ENGL 150H. Recent American Fiction, 1980-Present.** 4 Units
*Term Typically Offered: Fall, Spring*

Introduction to the remarkable flowering of American fiction in the late decades of the twentieth century. The primary focus is to scrutinize a collection of novels for which there is no firmly established critical opinion but which are nonetheless distinguished fictional accomplishments. Emphasis is placed on revealing the diversity of voices and the ways in which these writers demonstrate the continuing possibilities for artistic variety and experimentation.

**ENGL 150I. Modern American Short Story.** 4 Units
*Term Typically Offered: Fall, Spring*

Since the publication of Washington Irving’s “Legend of Sleepy Hollow,” Americans have excelled at the genre of the short story. Offers a survey of traditional “masters” and recent innovators. Provides an opportunity to read a wide variety of writers (such as Wharton, Chopin, Crane, Gilman, James, Anderson, Hemingway, Faulkner, Ellison, O’Connor, Barth, Oates, Proulx, Roth, Carvey, and Welty), and examine a range of forms, themes and experiences that reflect and shape American culture.

**ENGL 150J. Twentieth-Century American Drama.** 4 Units
*Term Typically Offered: Fall, Spring*

In-depth examination of American drama, starting with Eugene O'Neil. Traces American drama from the early decades of the 20th century to the present, examining the plays themselves, their themes, dramatic idioms, stage craft and European influences in their social, historical and artistic contexts.

**ENGL 150L. Lost Generation Writers.** 4 Units
*Term Typically Offered: Fall, Spring*

Examines one of the most remarkable flowerings of literary achievement in American letters, the writing of “The Lost Generation,” authors born between 1885 and 1900. Unified by a profound disillusionment with American culture after World War I, writers such as T.S. Eliot, Eugene O'Neill, William Faulkner, and Ernest Hemingway produced enduring modern masterpieces. In the process they demonstrated that their generation might find in art what had been lost on the battlefield.

**ENGL 150M. California Literature.** 4 Units
*Term Typically Offered: Fall, Spring*

Focuses on the California phenomenon of the place where the American Dream strives to reach fulfillment “because here” according to Sacramento-native Joan Didion, “beneath that immense bleached sky, is where we run out of continent” and how this phenomenon has captivated writers for centuries. Presents a cross-section of literary works (fiction, poetry, essays, etc.) while examining and interrogating various literary manifestations of California golden myths and grayer realities.

**ENGL 150P. The American Gothic.** 4 Units
*Term Typically Offered: Fall, Spring*

Explores American works written in the Gothic mode. In novels, captivity narratives, short stories, and poetry, we will investigate representations of terrifying, uncanny, and supernatural phenomena. As we trace the development of the Gothic mode in American literature, we will examine how narratives and poetic depictions of horror rehearse our individual and cultural fears about sexuality, race, violation, rebellion, madness, and death, and we will inquire into that thrill of macabre pleasure that attends the exploration of the darker side.

**ENGL 150R. American Regionalism.** 4 Units
*Term Typically Offered: Fall, Spring*

Examines literature by American regionalist writers during the late-nineteenth century. Topics may include nationalism, sectional divides, local color, dialect fiction, conditions of publication, and emerging women writers and writers of color. Students will investigate the role that regionalism plays in relation to literary representations that depict the conflicting and complex social, cultural, and historical formation of racialized and gendered identities. Independent-online project required.

**ENGL 155E. Hemingway and Fitzgerald.** 4 Units
*Term Typically Offered: Fall, Spring*

Intensive study of two of the most important American writers of the 20th century: Ernest Hemingway and F. Scott Fitzgerald. This focus on two authors allows students to read them in-depth, to examine the dynamics of their friendship, and to explore the similarities and differences in their responses to World War I and the Great Depression.

**ENGL 156A. A Survey of Irish Literature.** 3 Units
*Term Typically Offered: Fall, Spring*

Survey of Irish literature, beginning with various myths, moving through the bardic period and eighteenth and nineteenth centuries, and then centering upon the “Irish Renaissance” (1885-1940). Covers the genres of poetry, drama, and fiction, and representative figures include W.B. Yeats, Patrick Kavanagh, James Joyce, Flann O’Brien, John Synge, Lady Gregory, Sean O’Casey, Sean O’Faolain, and Frank O’Connor.

**ENGL 156D. Postcolonial Literature.** 4 Units
*Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X; or WPJ score of 80+.*

**General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (W)**

**Term Typically Offered: Fall, Spring**

Deals with the considerable body of Postcolonial literature written in English. Many of the writers come from countries of the former British Commonwealth, including Achebe, Desai, Emcheta, Naipaul, and Rushdie. It focuses on the literary, cultural and political environments in which the texts are situated and on their relationship to the wider tradition of literature in English.
ENGL 165F. Caribbean Literature. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the literature—novels, short stories, poetry, and plays—by a wide range of Caribbean authors, among whom are two recent Nobel Prize winners, Derek Walcott and V. S. Naipaul. Students will learn to appreciate the cultural diversity of this post-colonial literature and will become familiar with its important themes and stylistic techniques. Students will also experience the multi-dialectal richness and flavor of the Anglophone Caribbean as expressed by authors from linguistically diverse islands.

ENGL 170A. Fantasy. 4 Units
Term Typically Offered: Fall, Spring

Helps students develop their own working definition of fantasy by examining its central narrative and dramatic structures, image patterns, and thematic preoccupations. At the same time, encourages students to compare these motifs with those of so-called "realist" fiction so they may understand how blurred conventional distinctions between "fantasy" and "reality" actually are.

ENGL 170D. Drama. 4 Units
Term Typically Offered: Fall, Spring

Offers a survey of dramatic literature—tragedy, comedy, tragicomedy—with plays both modern and classical. Focus is on analysis of genre, theme, structure, and interpretation of the plays. Since plays are meant to be seen as well as read, we will screen selections from our plays to deepen our understanding and enjoyment.

ENGL 170E. Short Fiction. 4 Units
Term Typically Offered: Fall, Spring

Survey of the art of short fiction through readings of a variety of world writers. Representative figures include, but are not limited to, Melville, James, Chopin, Maupassant, Chekhov, Saki, Cather, Joyce, Kafka, Dinesen, Hemingway, Borges, O'Connor, Munro, Carver, Everett, Lahiri, etc.

ENGL 170G. Modern Poetry. 4 Units
Term Typically Offered: Fall, Spring

General course in English language poetry written in the late 19th and early 20th century, a period of great innovation in poetry. It focuses on approach: what is the modern poem and how does one read it? Emphasis is placed on the function of image, voice, line break, rhythm, etc. Writers might include Whitman, Dickinson, Yeats, Pound, Eliot, Hardy, and Hopkins.

ENGL 170H. Introduction To Comedy. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on various comic genres and theories—from 4th century BC to the present. It examines romantic comedy, tragicomedy, comedies of manners, of humors, of menace; farce, satire, slapstick. Students also read widely in comic theory, examining aspects psychological, phenomenological, aesthetic—in drama, fiction, poetry and prose.

ENGL 170I. Introduction To Tragedy. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on the literatures and theories of tragedy—from 5th century BC to the present—from Sophocles to Mamet, from Flaubert to Stoppard. It examines the “tragic vision” in light of individual genres, times, social mores, religious beliefs and expectations, using Aristotle for both its touchstone and lodestar.

ENGL 170K. Masters of the Short Story. 4 Units
Term Typically Offered: Fall, Spring

Concentrates on the works of a few distinguished writers of short fiction. In each case the writer is one with a widely acknowledged reputation. Emphasis is upon exploring how writers shape and manipulate the genre to produce lasting, individual, distinctive works. Representative figures include, but are not limited to, James Joyce, Nathaniel Hawthorne, Sherwood Anderson, Ernest Hemingway, Frank O'Connor, Flannery O'Connor, John Barth, D.H. Lawrence, and Eudora Welty.

ENGL 170L. Literature Of Sexuality. 4 Units
Term Typically Offered: Fall, Spring

Examines the relation between sexuality and literature, exploring different conceptions of sexuality over time and across cultures and the rhetorical strategies employed in representations of sexuality in literary texts. Topics may include the modern connection between sexuality and identity, the links between nation, race, and sexuality; and the treatment of homosexuality and women's sexuality. Throughout, careful attention will be paid to the literary forms and discursive strategies (e.g., the confessional mode, modern scientific discourses) used to represent sexuality.

ENGL 170M. Narrative Poetry. 4 Units
Term Typically Offered: Fall, Spring

Provides an introduction to the genre of narrative poetry, a historical survey of the vicissitudes of its reception from the nineteenth century to the present, and a close study of representative narrative poems by poets who have excelled in this mode.

ENGL 170N. Twentieth-Century Fiction. 4 Units
Term Typically Offered: Fall, Spring

Study of twentieth-century fiction from a variety of ethnic and social backgrounds, including and moving beyond British Modernism. Readings explore English as a literary language used across the globe, ranging from Paris to Mazatlán, Calcutta to San Francisco.

ENGL 170Z. Forms Of African-American Poetry. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on four or more African-American poets, representing a historical succession of literary periods.
ENGL 180B. Forms of African-American Fiction. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on four or more African-American writers of fiction, surveying texts representing a historical succession of literary periods.

ENGL 180F. Major African-American Authors. 4 Units
Term Typically Offered: Fall, Spring

Employing a lecture-discussion format, involves studies in a single literary genre or a combination of literary genres emphasizing the work of three or fewer African-American authors.

ENGL 180H. American Identities: In the Intersection of Race, Gender, and Ethnicity. 4 Units
Term Typically Offered: Fall, Spring

Uses a team-teaching approach to sample a range of diverse American literatures. Texts are selected by the team to represent both mainstream and marginalized groups and to reflect the individual professors’ interests and expertise. Examines the commonalities that cross ethnic, racial, class, and gender boundaries as well as the differences that enrich our cultural identity. Independent, online project required.

ENGL 180J. Jewish American Literature. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Students will examine a rich tradition of Jewish American literature in the context of a complex American multicultural narrative. Topics include the immigrant experience, assimilation, alienation, responses to the Holocaust and other forms of anti-Semitism, the place of Israel in the Jewish American imagination, and a contemporary rediscovery of reconstruction of Jewishness and Judaism. Students will interrogate what constitutes Jewish American identity and defines its literature in a culture that is itself conflicted about its secular/religious ethos and the degree to which subjectivity is determined by "consent and/or descent."

ENGL 180K. Chicano Literature. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Gives students an overview of Chicano Literature. Students examine both contemporary Chicano poetry and fiction.

ENGL 180M. Asian American Literature. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Designed to help students gain an understanding of the diversity as well as the similarities among various Asian American writers. How do the categories of race, gender, and class affect the way different characters construct their cultural experiences and fashion their personal identities? By studying the variety of processes through which different protagonists "become American"—through assimilation, appropriation, or "translation"—students should arrive at a better understanding of how we all construct our own identities.

ENGL 180Z. Topics in Multi-Ethnic Literatures. 4 Units
Term Typically Offered: Fall, Spring

Comparative analysis of two or more ethnic literary and cultural productions with an emphasis on relationships among history, politics, and culture in American, British, or World literatures.
Note: May be repeated twice for credit as topics vary.

ENGL 185B. Twentieth Century Fiction by Women. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Covers short stories and novels spanning the century and including women writers from a variety of nationalities, class, cultural and ethnic groups. Emphasizes what Virginia Woolf calls "the delicate transaction between a writer and the spirit of the age" and works with the writers presented so as to elicit the developing strands of influence and critique that bring these disparate writers into a common dialogue.

ENGL 185C. British Women Novelists. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the ways in which women writers of the 19th and 20th centuries concern themselves with questions of the differences in male and female experience and how those differences affect their writing. Students will study the portrayal in fiction of the evolution of the "modern woman"—with the conflicts between self and other, dependence and independence, love and power that are part of that process.

ENGL 185D. American Women Writers. 4 Units
Term Typically Offered: Fall, Spring

Focuses on women writers primarily from the early 20th century with an emphasis on how gender expectations affect people, society, novels, poems. Students study the theme of awakening, the roles that families, friends, class, social expectations and conditions play in the development of individuality and self-awareness. Examines implications of power relationships and certain areas of conflict, such as those between self and other, repression and expression, inner and outer, dependence and independence, love and power.
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**ENGL 185E: Chicana/Latina Women Writers.**
Focuses on major Chicana and Latina writers of the 19th, 20th, or 21st centuries. Includes an analysis of Chicana and Latina novels, short stories, theater and/or poetry. Students develop analytical skills through class lectures, discussions, written assignments and readings.

**ENGL 190D: Detective Fiction.**
Readings in and analysis of crime and detective fictions (novels, short stories, plays, etc.). Crime fiction continually asks us what do we know about people and events and how do we know it. Investigates a variety of texts that address this desire to know and its connections to the mysterious and the criminal. Discussions of this popular genre will address the ways in which an obsession with crime and punishment manifests itself in various cultures and cultural moments.

**ENGL 190H: The Supernatural in Literature.**
Approaches supernatural literature from the perspective that, regardless of how bizarre or fantastical a literary work may seem, it deserves serious scholarly study because it represents the realism of apparent human experiences and provides readers with access to the inner workings of the human mind. Readings include Ambrose Bierce, H.P. Lovecraft, Edgar Allan Poe, Lord Dunsany, Fitz-James O’Brien, and contemporary writers from around the world.

**ENGL 190J: Tolkien: Lord Of The Rings.**
Helps students understand the primary structures, images, and themes informing Tolkien’s Middle Earth and the ways these link the medieval worldview with modern, and even postmodern, wish-and fear-fulfillments. Students will read Tolkien’s criticism, poetry, short tales, The Hobbit, The Lord of the Rings trilogy, and selections from The Silmarillion.

**ENGL 190P: Popular Literature and Culture.**
The study of popular texts through the various lenses of literary analysis. Students will work with a variety of texts, which might include genre fiction, graphic novels and comics, film and television, and other digital media, to consider the ways and whys of their popularity, as well as their impact, both historical and contemporaneous, on literature, audience, and culture.

**ENGL 190Q: LGBTQ Literature.**
Readings in and analysis of literature by and about lesbian, gay, bisexual, transgender, and queer creators. Students will work with a variety of texts (fiction, poetry, film, nonfiction) about LGBTQ identities; students will also come to understand the historical contexts and shifting theoretical paradigms that have shaped and reshaped conceptions of sexuality.

**ENGL 190R: Romance Fiction.**
Readings in and analysis of romance fictions (primarily novels). Romances continually promise emotional (and sexual) fulfillment, but what do readers of romance novels get from this reading experience? Discussions of this popular genre will address the ways in which the pursuit of love and companionship and the indulgence in lust and passion manifest themselves in various cultural moments; critical materials will help theorize the appeals, dangers, and uses of romance fiction.

**ENGL 190V: Great Drama on Video.**
Studies and evaluates a selection of dramas on videos (such as but not limited to A Streetcar Named Desire, Death of a Salesman, Doll’s House, Hamlet, Oedipus, Pygmalion, and Rosencrantz and Guildenstern) and core texts (Sculpting in Time: Tarkovsky The Great Russian Filmaker Discusses His Art, Truffaut by Truffaut, and Staring Point by Hayao Miyazaki).

**ENGL 191A: Masterpieces of the Cinema.**
Conducted by lecture and discussion. Students see a selection of the best, most enduring, most influential films made during the last hundred years and explore the historic, aesthetic, and philosophical reasons these films have generally been acknowledged as masterpieces.

**ENGL 195A: Writing Center Theory and Practice: Internships.**
Provides interns with an opportunity to apply tutoring principles while working at tutors in the writing center. **Note:** ENGL 195A is a paired course with ENGL 410A, which meets at the same time in the same room. The graduate level class has a significantly increased reading, writing, and research component. May be repeated for up to 8 units of credit.

**ENGL 195C: Internship In Field Work.**
Work experience in an area related to the English major. Credit/No Credit

**ENGL 195W: Writing Programs Internship.**
This course is paired with an internship with the University Writing Programs or a Community Engagement Center partner organization during which students apply knowledge of writing, editing, design, copy editing, and production in the professional workplace. Students define the learning goals and objectives specific to their internships by writing a learning agreement, and in a portfolio presented to the class they examine the extent to which they met the learning objectives outlined in the learning agreement. **Note:** May be repeated for credit if topic of internship differs.
ENGL 197A. Film -- Horror, Comedy, Science-Fiction. 4 Units
Term Typically Offered: Fall, Spring

Major genres of the cinema conducted by lecture and discussion. Students see a selection of films from the major genres including (but not limited to) horror, science fiction, and comedy, learn about the history and development of each genre; and explore the commercial, aesthetic, social, and philosophical forces that have shaped the major film genres.

ENGL 197G. Films of Great Directors. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the role of the director in the creation of excellent films. Students will view, analyze, and discuss memorable films by great directors, concentrating on their personal styles, cinematic strategies, and typical themes. Representative examples will include such filmmakers as Chaplin, Keaton, Renoir, Welles, Ford, Truffaut, Bunuel, Kurosawa, Hitchcock, Bergman, and others.

ENGL 197L. Film - Depression Giggles. 4 Units
Term Typically Offered: Fall, Spring

A semester of films, readings, and discussions focused on what is often called the Golden Age of Hollywood, the 1930s and early 1940s. Class will study as well the studio era, the star system, the development of cinematic genres, and censorship under the Production Code both when it was more strictly enforced [1934-after] and when it was not [1930-1934].

ENGL 197K. Fiction Into Film. 4 Units
Term Typically Offered: Fall, Spring

Students see a selection of films adapted from novels, short stories, or other literary works; read the original work from which the film was adapted; and explore the history, aesthetics, and craft of adapting fiction to film.

ENGL 197L. The American Film. 4 Units
Term Typically Offered: Fall, Spring

Focus on American films. Topics may cover a range of periods, movements, genres, styles and issues.

ENGL 197M. Recent American Films. 4 Units
Term Typically Offered: Fall, Spring

Emphasizes the trends, themes, forms, and cinematic techniques, technological advances, and "revisionist" genres of recent American films of approximately the last twenty years, partly as a way of analyzing the American film conventions, partly as a means of examining our contemporary culture, but primarily as a means of analyzing and understanding the films themselves.

ENGL 197P. British Film. 4 Units
Term Typically Offered: Fall, Spring

Screenings and analysis of films produced in Great Britain. Students will view a variety of British films, starting possibly with silents and early Hitchcock and ending with films from the contemporary moment. Students will come to understand the historical and artistic contexts of the films and encounter the shifting definitions of what represents "British" on the screens of the cinema and in the minds of viewers. May provide a survey of films or focus on particular themes, studios, or directors.

ENGL 197R. Films Of Alfred Hitchcock. 4 Units
Term Typically Offered: Fall, Spring

Traces Hitchcock's "game with the audience" from its beginnings in silent films, through its British period, to its American conclusion. It closely examines important sequences, shots, images, character types, and themes. Students will view several of Hitchcock's classic films in their entirety.

ENGL 197T. Senior Seminar In English. 2 Units
Term Typically Offered: Fall, Spring

Features specialized topics taught by a variety of instructors depending upon the semester. Topics can include subject matter from literature, linguistics, English education, creative writing, composition/rhetoric, and film. Tend to the production of a significant research paper, a paper which will emphasize the student's ability to: evaluate, assess, and interpret multiple texts; integrate primary and secondary sources; construct a sustained, coherent, and rhetorically sophisticated piece of writing.

ENGL 198X. Senior Portfolio. 2 Units
Term Typically Offered: Fall, Spring

In this course, students, as one element of their capstone experience, will reflect on their work in their classes and portfolio projects; the English major, its structure, curriculum, and values; their career goals and life-long learning; and the meanings of education and literacies in the academy and popular cultures. Students will edit and finalize their senior portfolio.

Note: On-line course

Credit/No Credit

ENGL 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Departmental petition required.

Credit/No Credit

ENGL 200. Methods and Materials of English Studies. 3 Units
Term Typically Offered: Fall, Spring

Required for all MA candidates in English.
ENGL 200A. Methods and Materials of Literary Research. 4 Units
Term Typically Offered: Fall, Spring

Required of all MA candidates in English under Plans A and C and Creative Writing Plan B, acquaints students with principal sources and techniques of literary research. It also introduces students to contemporary critical approaches to literature. Students should take this course as early as possible in their graduate careers, preferably in the first semester. Students prepare an annotated bibliography and a paper employing a particular critical approach to one of a selection of anchor texts.

Note: Graduate Writing Intensive (GWI) course.

ENGL 200D. Materials and Methods of TESOL Research. 3 Units
Term Typically Offered: Fall, Spring

Explores research design and testing methods for quantitative and qualitative research in second language acquisition (SLA). Students develop the ability to read second language acquisition research critically; study a variety of theoretical perspectives represented in current SLA research; and review the history of the current "burning issues" in SLA.

Note: Graduate Writing Intensive (GWI) course.

ENGL 200E. Curriculum and Assessment Design for Language Classrooms. 3 Units
Term Typically Offered: Fall, Spring

Examine the interplay between curriculum design and classroom assessment. The goals are 1) to familiarize prospective teachers with the terminology and practices underlying curriculum design and classroom assessment; 2) to develop the ability to analyze student needs and propose appropriate changes to curricula; and 3) to construct and implement language tests that reflect curricula.

Note: May be counted as an elective for the M.A. TESOL program.

ENGL 201D. Contemporary Theory. 4 Units
Term Typically Offered: Fall, Spring

Introduces students to the place of theoretical texts in literary studies and engages with theory through a survey of approaches and/or a thematic inquiry; examples of thematic approaches might include but are not limited to formalism and new formalism, critical race studies, theories of poetics, and the linguistic turn.

ENGL 210B. Sociolinguistics and TESOL. 3 Units
Term Typically Offered: Fall, Spring

ENGL 210C. Technology in Second Language Teaching. 3 Units
Term Typically Offered: Summer only

ENGL 210G. Second Language Acquisition. 3 Units
Prerequisite(s): ENGL 200D.
Term Typically Offered: Fall, Spring

Examines the factors affecting the acquisition of a second language, focusing on research in this area since 1970. Topics covered are: transfer and the role of the first language; developmental sequences; the role of input, interaction and output; cognitive and personality variables, including age; and the role of formal instruction and error correction.

ENGL 215A. Reading/Vocabulary Acquisition. 3 Units
Term Typically Offered: Fall, Spring

Preparation of teachers of English to speakers of other languages. Examines the psycholinguistic bases of the reading process in ESL, provides opportunities for seminars to test reading practices in peer demonstrations, and explores the fundamentals of testing, evaluation, and syllabus design in the ESL curriculum. Particular attention for reading and vocabulary will be given to miscue analysis and acquisition theory.

ENGL 215B. ESL Writing/Composition. 3 Units
Term Typically Offered: Fall, Spring

Provides the groundwork to prepare teachers of English to speakers of other languages for composition instruction. An examination of the theoretical bases of language acquisition, composing process, and correction/revision strategies that will enable students to plan and demonstrate writing lessons to their peers. Consideration of traditional tests of writing, such as the TOEFL, the WPJ, and innovative forms of evaluation are integrated with syllabus design and text evaluation.

ENGL 215C. Pedagogical Grammar for TESOL. 3 Units
Term Typically Offered: Fall, Spring

Examines those areas of English grammar that are typically taught to non-native speakers. The goals are 1) to familiarize prospective ESL teachers with terminology and analyses that can be used in the classroom; 2) to develop the ability to explain and exemplify grammatical phenomena in terms accessible to ESL students; 3) to review sample materials and techniques for teaching English grammar to non-native speakers.

ENGL 215D. Pedagogy of Spoken English. 3 Units
Term Typically Offered: Fall, Spring

Examines aspects of spoken English that are typically taught to non-native speakers. The goals are 1) to familiarize prospective ESL teachers with terminology and analyses that can be used in the classroom; 2) to develop the ability to analyze student difficulties and provide appropriate help; 3) to review sample materials and techniques for teaching spoken English to non-native speakers.

ENGL 220A. Teaching College Composition. 4 Units
Term Typically Offered: Fall, Spring

Designed for prospective community college and university writing instructors. It focuses on theory and research in rhetoric, composition, and cognitive development and on practical, pedagogical classroom strategies. Students discuss a variety of theories and research studies and then apply writing theory to classroom strategies, design lessons, assignments, and syllabi, and practice analyzing and responding to student writing; and prepare a teacher portfolio.

Note: Graduate Writing Intensive (GWI) course.
ENGL 220C. Topics in Composition Studies. 4 Units
Prerequisite(s): ENGL 220A
Term Typically Offered: Fall, Spring

Rotating series of topics relevant to composition studies. Regardless of the topic, students will explore the history of the field, the theory and practice of the field, the major scholarly works of the field, and the relationship of the field of study to the broader field of composition and rhetoric.

ENGL 220D. Teaching and Composition Research. 4 Units
Term Typically Offered: Fall, Spring

Examines the history and current status of research methods and methodologies in Composition Studies. It explores both producing and consuming research—studying how and why research has been conducted and how it has been understood and put to practical use by readers of composition research.

ENGL 220P. Professional Writing. 4 Units
Term Typically Offered: Fall, Spring

Examines theories that inform the practices of professional writers and applies theoretical principles to some common professional writing genres used in career fields ranging from business to public relations to nonprofit management. Focuses on how business or technical communication is different from academic styles and introduces students to the current writing challenges and practices in these fields.

ENGL 220R. Topics in Rhetorical Theory and Practice. 4 Units
Term Typically Offered: Fall, Spring

Designed to help students learn about and apply rhetorical theory. Its goal is to introduce graduate students to the history and theory of rhetorical movements after—or outside of—the rhetorics of Western antiquity. Evaluation will be based on weekly journal responses to readings, a major paper on rhetorical theories, and a course portfolio.

ENGL 220W. Writing in Your Discipline. 3 Units
Prerequisite(s): Graduate GWAR placement Score of 40 or a GWI course grade of "B-" or lower
Term Typically Offered: Fall, Spring

Writing workshop course designed to immerse graduate students in the discourse of their disciplines; required for graduate students who have received a 3 unit placement on the Writing Placement for Graduate Students (WPG). Focuses on the writing process, text-based academic writing in various academic genres, revising, and editing. Students will produce 5000 words. Includes assessment via Course Portfolio.

ENGL 222. Understanding Multidisciplinarity in Writing Studies. 1 Unit
Term Typically Offered: Fall, Spring

The discipline of Writing Studies has roots in a number of areas of scholarly inquiry. Some disciplines that have contributed to the development of the field include Literary Studies, Linguistics, Communications, Information Technology, Philosophy, Library Science, Psychology, and Education. In this course, students will evaluate a theory or concept presented in a discipline outside of Writing. Required for students in the MA in Composition, Rhetoric, and Professional writing who are taking a ENGL 215B or another three-unit elective.

ENGL 225A. Theories of Teaching Literature. 3 Units
Term Typically Offered: Fall, Spring

Introduction to theories of teaching literature so students who intend to teach at the college level have examined their assumptions and options before they develop their teaching practices. Organized around three questions: Why do we teach literature? What do we teach? How do we teach?

ENGL 225C. Theoretical Issues in Adult Literacies. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to current theories surrounding the pedagogies and politics of adult literacies within a wide variety of contexts, including community colleges, prisons, and community projects. Incorporates information on technological literacies, information literacies, cultural literacies, and multiliteracies. In addition, students will be partnered with community literacy experts and required to complete formal observations of adult reading classrooms throughout the semester, fostering collaboration between the local community and the university.

Cross-listed: EDTE 225C; only one may be counted for credit.

ENGL 230A. Writing Fiction. 4 Units
Term Typically Offered: Fall, Spring

Seminar in the workshop format designed for experienced writers of fiction. It is designed to provide intensive instruction in the theory and craft of writing short stories, novels, and screenplays.

ENGL 230B. Advanced Poetry Writing. 4 Units
Term Typically Offered: Fall, Spring

Theory and practice in the writing of poetry. Consists primarily of the preparation and evaluation of student work. Students are also be assigned supplemental readings designed to help them determine their affinity (or lack of affinity) with current poetic theory and practice.

ENGL 230D. Meter and Rhythm. 4 Units
Term Typically Offered: Fall, Spring

In-depth study of prosody including the principles of meter (line measurement) and scansion (the marking of stressed and unstressed syllables to determine meter and rhythm), as well as examining the relationship of these principles to verse in English. Examines a variety of poetic schemes, tropes, and forms. Lecture and guided practice.

ENGL 230E. Writing and Theorizing Memoir. 4 Units
Term Typically Offered: Fall, Spring

Examines the craft of writing memoir and creative nonfiction as well as the theory and history of contemporary memoir writing. Students will write and workshop their own memoirs and creative nonfiction. Introduces students to literary and philosophical theories of memory and writing as well as look at contemporary memoirs written in a variety of styles.

ENGL 230G. Between Genres: Flash Fiction/Prose Poetry. 4 Units
Term Typically Offered: Fall, Spring

English 230G offers graduate poets and fiction writers the opportunity to explore/experiment with the long-standing anti-genre of the poetry/fiction hybrid. For 200 years writers around the world have noted the symbiosis between the genres of poetry and prose. Currently, some of America’s most exciting writers are currently exploring the margins between prose poetry, flash fiction, and related evolving forms.
ENGL 230X. Master Class in Writing Fiction. 4 Units
Prerequisite(s): ENGL 130A, or ENGL 130M, or ENGL 130N, or ENGL 230A or instructor permission.
Term Typically Offered: Fall, Spring
Workshop provides intensive instruction in the theory and craft of writing fiction designed for students who are already writing at a professional or near-professional level, and for those who have proven themselves ready to take advanced study with careful, individualized direction of the instructor.
Note: May be repeated once for credit.

ENGL 230Y. Master Class in Writing Poetry. 4 Units
Prerequisite(s): ENGL 130B or ENGL 230B or instructor permission.
Term Typically Offered: Fall, Spring
Designed to provide intensive practice in the techniques and problems of writing poetry. It is aimed at students interested in creative writing, those who have already done significant work and who have proven themselves ready to take advanced study with careful individualized direction of the instructor.

ENGL 240. British Literature. 3 Units
Term Typically Offered: Fall, Spring
Seminars in British literature.

ENGL 240A. Chaucer. 4 Units
Term Typically Offered: Fall, Spring
Investigation of the body of Chaucer's poetry, seen against the backdrop of the late 14th century.

ENGL 240B. The World and the Flesh: Victorian Fiction. 4 Units
Term Typically Offered: Fall, Spring
Explores the Divided-Self of Victorian fiction, a consciousness split between word and flesh, duty and love, society and the self, or most generally between one's public role and one's private needs. Such polar themes affect several fictional genres such as the Pastoral, Gothic, Bildungsroman, Historical Novel and Naturalism. The word and flesh dialectic also informs the narrative structure of Victorian fiction.

ENGL 240E. 18th-Century Novelists. 4 Units
Term Typically Offered: Fall, Spring
Focuses on individual novelists, pairs of novelists, or thematic groupings. Might include works of fiction by authors such as Behn, Defoe, Richardson, Fielding, Sterne, Goldsmith, Bumey.

ENGL 240F. Dickens-Thackeray. 4 Units
Term Typically Offered: Fall, Spring
Dickens and Thackeray dominated the popular mind as the novelists of the age; no other novelists are more representative of their age and yet can claim to have risen above it. Concentrates on just a few of their novels. Students study the writers and their novels in the context of English society in the 19th century.

ENGL 240G. Yeats, Kavanagh and Heaney: Ireland's Modern Irish Poets. 3 Units
Term Typically Offered: Fall, Spring
Yeats, often considered a modernist and a poet in the British tradition, saw himself primarily as an Irish poet working within distinctly Irish literary traditions. Focuses on Yeats' conception of a national, ethnic poetry and the effect that mission had on Ireland's other two major 20th century poets—Kavanagh and Heaney. Students analyze Yeats' most influential work; Kavanagh and Heaney are studied in terms of their debt to Yeats and their individual expressions of national consciousness.

ENGL 240H. DH Lawrence.
Term Typically Offered: Fall, Spring
Lawrence was immensely original. Like Tolstoy and Dostoevsky, Lawrence is a prophetic visionary intensely concerned to articulate and embody an all-embracing, profoundly existential, vision of life. Examines Lawrence's work closely after a brief exploration of modernism and Lawrence's relation to it and an examination of how conditions in post-Victorian England and events in Europe in the early 20th century contributed to the making of Lawrence's world view and his role as a controversial outsider.

ENGL 240I. Jane Austen.
Term Typically Offered: Fall, Spring
Focuses on Jane Austen, perhaps England's greatest novelist. Students read almost all of her work and trace the development of her art from her teenage years until her death in 1817, noting how each new book is a distinct departure from previous ones.

ENGL 240J. James Joyce.
Term Typically Offered: Fall, Spring
James Joyce is a monument among twentieth century writers. His masterful Ulysses and other intricate works have kept generations of critics in business. Examines his major fictions, studying them in relationship to the life out of which they grew.

ENGL 240K. English Renaissance Drama.
Term Typically Offered: Fall, Spring
Sense of exploration, discovery, experimentation, creativity, and moral complexity of the Renaissance era in England (roughly 1550 to 1660) is reflected in the variety and number of plays written by Shakespeare's predecessors, contemporaries, and successors. Following introductory material on the development of the drama in England, students analyze Elizabethan and Jacobean playwrights, exclusive of Shakespeare. Emphasis is on the forms and themes of the plays, with application of "New Historicism" and attention to Renaissance backgrounds.

ENGL 240L. Conrad and Greene.
Term Typically Offered: Fall, Spring
When English critic F.R. Leavis declared that the great English novelists were Austen, Eliot, James, and Conrad, he emphasized these writers' intensely moral pre-occupation. No modern novelist has been more influenced by Conrad than Graham Greene, whose work has the same romantic subject matter and concerns with ethical judgments. Both writers are concerned with the question: to act or not to act, for either choice has inescapable ethical consequences.
ENGL 240M. The Gothic Novel. 4 Units
Term Typically Offered: Fall, Spring
Examines the origins and development of the Gothic Novel in England. Attention is paid to recurring structures and themes such as architecture, the use of a narrative frame, reader identification figure, the divided self, the relationships between sex, violence, and death, the wasteland motif, and existential concerns. Special attention is given to the role of the reader and his or her response to the novels.

ENGL 240N. Arthurian Literature. 4 Units
Term Typically Offered: Fall, Spring
Study of Arthurian literature in the Middle Ages from its origins to Thomas Malory, as well as some coverage of reception history.

ENGL 240O. Satire In Age Swift+Pope. 3 Units
Term Typically Offered: Fall, Spring
Focuses on works of fiction deemed written after 1979. Although the choice of authors and works might vary from one semester to another, focuses on works of fiction deemed significant and valuable by literary scholars and critics.

ENGL 240R. Charles Dickens. 4 Units
Term Typically Offered: Fall, Spring
Examines the major narrative, plot, and genre structures, image patterns, and thematic preoccupations in Dickens' novels, like the interrelationships between homes, prisons, factories and schools. The influences of Dickens' life, periodical publishing of illustrated magazines, and of Victorian society also receives attention. Introduces students to relevant insights of several "post-structural" critical schools, including those of deconstruction, the carnivalesque, liminality, and Lacanian psychology.

ENGL 240S. Modern Irish Fiction. 3 Units
Term Typically Offered: Fall, Spring
Examines in detail one aspect of the Irish Renaissance (approximately 1880-1940)—Ireland's contribution to fiction in the twentieth century. Also examines not only individual writers and works but the development of the genres of the novel and short story and movements such as realism, naturalism, modernism, and post-modernism. Writers might include Joyce, O'Brien, O'Flaherty, O'Faolain, and others.

ENGL 240T. Renaissance Literature. 4 Units
Term Typically Offered: Fall, Spring
Students will explore the poetry, prose, and drama produced in England during the 16th and 17th centuries. Contemporary criticism and theory will provide a context for reading these primary works.

ENGL 240U. Nineteenth-Century Texts and Sex. 4 Units
Term Typically Offered: Fall, Spring
Examines a range of sexual identities through which nineteenth-century Britons imagined their lives. Such identities were influenced by ideas about race, class, status, ethnicity, gender, and age that often differed markedly from our own. Moves beyond the literary to look at texts from a variety of genres (medical, literary, erotic, and autobiographical) and cover both well-treated and more obscure texts.

ENGL 240X. Contemporary British Fiction—1980 to Present. 4 Units
Term Typically Offered: Fall, Spring
Students read and study British works of fiction—novels and short stories—written after 1979. Although the choice of authors and works might vary from one semester to another, focuses on works of fiction deemed significant and valuable by literary scholars and critics.

ENGL 240Z. Special Topics in British Literature. 4 Units
Term Typically Offered: Fall, Spring
Open to the investigation of either a limited period (e.g. World War I poets or Victorian Children's literature), a single author (e.g. Hanif Kureishi or Aphra Behn), an authorial dialogue (e.g. Chaucer & Spenser, Stoppard and Shakespeare, Sidney & Wroth), or a unique literary feature, theme, or structure (e.g. Pastoral & Georgic or Empire & Race).

ENGL 245A. Shakespearean Romance. 3 Units
Term Typically Offered: Fall, Spring
Examines the major narrative, plot, and genre structures, image patterns, and thematic preoccupations in the works of Shakespeare, Sidney & Wroth, or a unique literary feature, theme, or structure (e.g. Pastoral & Georgic or Empire & Race).

ENGL 250A. Wharton and Cather. 3 Units
Term Typically Offered: Fall, Spring
Focuses on the writing of Edith Wharton and Willa Cather, two of our most accomplished early American writers. Shows how these writers, poised on the threshold of the twentieth century, and pulled simultaneously forward and back, explored similar themes, and how, as two of the few revered women writers of this time, they focused particularly on shifting gender roles; Wharton with her eye on interior space and Cather with her eye on exterior space.

ENGL 250D. Hawthorne and Melville. 3 Units
Term Typically Offered: Fall, Spring
Readings and discussion of major works by Hawthorne and Melville.

ENGL 250F. Whitman and Dickinson. 4 Units
Term Typically Offered: Fall, Spring
This seminar on two of America's greatest poets, Whitman and Dickinson, focuses primarily on the poetry, but also on letters and prose pieces. Students read and discuss criticism on each writer, and study cultural and historical contexts of these two contemporaneous but antithetical poets. Study includes traditional and feminist studies of Dickinson and Cultural Studies of Whitman. Forms a dialogue between these two remarkable and remarkably different poets; students join in that dialogue.

ENGL 250H. American Realism. 4 Units
Term Typically Offered: Fall, Spring
Between the end of the Civil War and the outbreak of World War I, there was an unprecedented and transforming social and cultural change in American life. During this time, literature also radically contributed to ideas about the nature of fiction, the reality it represented, and its effects on readers. Students will study the historical development of realism in literature and the current status of theories of literary realism.

ENGL 250J. Henry James. 4 Units
Term Typically Offered: Fall, Spring
James' innovations in narrative technique paved the way for the emergence of the modern novel; his development of a theory of fiction helped establish an American literary tradition and bring the American novel into the mainstream of British and European literature. Students read James' major works of fiction and criticism with an eye to understanding and enjoying them and to assessing the nature of the writer's contribution to the novel as a serious art form.
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<th>Course Code</th>
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<tr>
<td>ENGL 250K</td>
<td>Contemporary American Fiction.</td>
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<tr>
<td>ENGL 250L</td>
<td>American Women Writers.</td>
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<td>ENGL 250P</td>
<td>Wharton and Chopin.</td>
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<td>ENGL 250Q</td>
<td>Irish-American Fiction.</td>
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<td>ENGL 250R</td>
<td>Wm. Faulkner: Major Fict.</td>
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<td>ENGL 250T</td>
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<td>ENGL 250U</td>
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<td>ENGL 250W</td>
<td>The Poetry of T.S. Eliot.</td>
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<td>ENGL 250Z</td>
<td>Special Topics in American Literature.</td>
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<td>ENGL 250A</td>
<td>Myth Criticism.</td>
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<td>ENGL 250B</td>
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<td>ENGL 265A</td>
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<td>ENGL 275</td>
<td>Seminar in Literary History.</td>
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<tr>
<td>ENGL 280A</td>
<td>Aesthetics of Minority Literature.</td>
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Studying contemporary fiction involves challenges and pleasures. Unlike studies in most areas of literature where the best writers have been clearly established, studying contemporary fiction means risking one's own critical skills to identify what new texts and writers are significant without the help of earlier generations of scholars and critics.

Focuses on the contributions of women writers to American literature. Begins with a brief overview of feminist critical approaches and of the history of women writing in America. Close critical analysis of texts focuses on four or five writers from various centuries, regions, and ethnic groups. Covers such writers as Toni Morrison, Sarah Jewett, Marilynne Robinson, Eudora Welty, Lee Smith, Leslie Silko, and others. Students work collaboratively to present background information and critical approaches to the writers.

Growth of a feminine perspective in literary theory has resulted in a radical reconsideration of the American literary canon, producing new readings of texts, patterns in literature and culture, and connections between texts. Wharton and Chopin are two writers taking a place of importance in the development of the realistic novel in America and in the creation of a distinctive tradition of women's literature. Focuses on the heuristic possibilities of a distinctly different literature by women, the role of gender, and the contributions of Wharton and Chopin to the novel.

Examines the theme of immigration and that of assimilation in a particular ethnic group: Irish-Americans. Through an examination of the literary, we find an ethnicity that is uneasily part of the American fabric and one defined to a large degree by the culture they either abandoned or were forced to abandon. Representative writers include Eugene O'Neill, Alice McDermott, William Kenney, Mary Gordon, John Gregory Dunne.

Focus on literature dramatizing the roaring, irrepressible twenties, a decade of unprecedented change following the "Great War to end all wars." Highlighting Fitzgerald, whose life mirrors the times, also includes other "expatriate" writers such as Wharton, Dos Passos, Stein, Eliot, and Hemingway, who looked at America from an overseas perspective and reflected on the changes in communication, sensibility, and values resulting from the new freedom of this revolutionary, liminal period.

Focuses on the poetry of T.S. Eliot, one of the dominating figures of English and American literature for a substantial part of the twentieth century. In 1948 he received the Nobel Prize for Literature, and by 1950 his authority had reached a level that seemed comparable in English writing to that of figures like Johnson and Coleridge. Offers students the opportunity to analyze and discuss Eliot's poems. We will trace his poetic/aesthetic development from his early poems ("Prufrock" et al.)

The investigation of either a limited period (e.g. The Transcendental period or the Novel of the 1960s), a single author (e.g., Philip Roth or Toni Morrison), or a unique literary feature or structure (e.g. Literary Naturalism or the Experimental Novel).

Introduces and traces through several literary works and genres the fundamental topics in myth criticism; significance of ritual, fairy tales, and archetypal romance forms; contributions of Freudian, Lacanian, and Jungian psychology and their relation to Joseph Campbell's notion of the monomyth; relevance of Victor Turner's "liminal" theories of rites of passage in anthropology; importance of recent discoveries with the bicameral and "triune" brain in biological sciences; kinds of myth (hero, heroine, American, love, wasteland, artist, time); and relationships between myth criticism and post-structuralism.

Focuses on contemporary literary works from postcolonial locations such as Africa, Australia, South Asia, Canada and the Caribbean. Explores the relationships between literary texts and the historical and social contexts from which they arise; especially European colonialism.

Literary history designed to introduce the graduate student to bibliographical materials necessary to the successful pursuit of advanced study in English. It will deal with the major historical periods of English and American literature, and looks briefly at the major European traditions.

This course examines African American literature and film. Focusing on the emergence of a distinctly black modernist and post-modernist literary discourse, we will also study how neo-slave narratives illuminate the difficulties of comparative freedom and the legacies of Caribbean and American slaveries and oppression.
ENGL 280B. The Ethics of Black Verbal Aesthetics. Term Typically Offered: Fall, Spring

This course introduces the advanced study of black verbal aesthetics in the novels of Ralph Ellison (the dozens), Toni Morrison (folktales), Colson Whitehead (call and response), the poetry of Harryette Mullen (diasporic blues/jazz improvisation), and others. Exploring black verbal aesthetics and sonic technologies, we will investigate how these authors above (as well as James Baldwin and Amiri Baraka) treat verbal expressive arts as sites of hidden knowledge, subversion, and everyday politics that centralizes black life and culture.

ENGL 280J. Jewish American Literature. Term Typically Offered: Fall, Spring

Students will examine a rich tradition of Jewish American literature in the context of a complex American multicultural narrative. Topics include the immigrant experience, assimilation, alienation, responses to the Holocaust and other forms of anti-Semitism, the place of Israel in the Jewish American imagination, and a contemporary rediscovery or reconstruction of Jewishness and Judaism. Students will interrogate what constitutes Jewish American identity and defines its literature in a culture that is itself conflicted about its secular/religious ethos and the degree to which subjectivity is determined by "consent and/or descent.

ENGL 297A. Prose Style In Literature. Term Typically Offered: Fall, Spring

ENGL 299. Special Problems: English Tutorial. Term Typically Offered: Fall, Spring
Prerequisite(s): ENGL 200.

ENGL 410A. Writing Center Theory and Practice: Internships. Term Typically Offered: Fall, Spring
Provides interns with an opportunity to apply tutoring principles while working at tutors in the writing center.
Note: ENGL 410A is paired course with ENGL 195A, which meets at the same time in the same room. The graduate class, 410A, has a significantly increased reading, writing, and research component. May be repeated for up to 8 units of credit.

ENGL 410B. Internship-ESL Teaching. Term Typically Offered: Fall, Spring
Provides interns with an opportunity to experience the day-to-day life of an ESL class. Tutors will observe an ESL class, will assist the teacher in conducting various aspects of the class, and will be responsible for planning and teaching at least one class session. Seminar meetings will provide an overview of ESL teaching methodology.

ENGL 410C. Internships. Term Typically Offered: Fall, Spring

ENGL 410E. Internship in Teaching Writing. Term Typically Offered: Fall, Spring

Students considering a teaching career intern in a composition class at an area community college. They work with a mentor teacher on site and meet periodically at CSUS. The internship provides students with an opportunity to experience the day-to-day life of a composition class and hands-on opportunity to design assignments, respond to student writing, conduct class discussions, etc. Students read composition and rhetorical theory with an eye toward day-to-day application in the classroom.
Credit/No Credit

ENGL 410F. Internship in Teaching Literature. Term Typically Offered: Fall, Spring
Prerequisite(s): Recommended ENGL 225 or ENGL 22A or instructor permission
Corequisite(s): Instructor Permission

ENGL 410W. Writing Programs Internship. Term Typically Offered: Fall, Spring
Provides interns with an opportunity to gain teaching experience in a literature classroom. Students will work closely with an instructor-of-record in a large (60+) lecture literature course and in small group discussion sessions under the supervision of the mentor professor. Interns will also meet regularly with their peers to discuss pedagogical issues and readings as they pertain to their experiences in the classroom.
Credit/No Credit

ENGL 410L. Internship in Teaching Adult Reading. Term Typically Offered: Fall, Spring

ENGL 500. Culminating Experience. Term Typically Offered: Fall, Spring

ENGL 598T. Culminating Experience - TESOL. Term Typically Offered: Fall, Spring

Completion of a thesis, project, comprehensive examination. In addition, students will be asked to edit and reflect on their portfolio projects from coursework.

ENGL 598T. Culminating Experience - TESOL. Term Typically Offered: Fall, Spring

Completion of a thesis, project, or TESOL comprehensive exam. Requires advancement to candidacy and permission of graduate coordinator. Project and thesis options require GPA of 3.7.
Entrepreneurship (ENTR)

**ENTR 185.** Venture Growth Strategies. 3 Units
Prerequisite(s): Upper-division standing; ENTR 187 or ENTR 189.
Term Typically Offered: Fall, Spring

Focuses on the opportunities and challenges involved in the management of a business venture and its growth opportunities. Growth is the ultimate resource constrainer, stretching all the resources of a company to the limit and often beyond. Develops a venture spanning approach that examines the business venture and the challenges that tasks venture management to the limit. Provides students with a series of frameworks, analytical skills and techniques, heuristics, and decision-making tools that can be used in growing entrepreneurial businesses.

Note: Only students with an Entrepreneurship Concentration will be admitted.

**ENTR 187.** Entrepreneurship. 3 Units
Term Typically Offered: Fall, Spring

Objective is to lead students through all steps necessary in starting a business: analyzing personal and business goals, researching the market, developing a marketing plan, determining land, building, equipment, supplies, inventory, people needed, determining cash flow and pro forma financial statements, and money needed. The output of all this will be a professional business plan and financial package ready to submit to prospective investors.

**ENTR 189.** Corporate Entrepreneurship. 3 Units
Prerequisite(s): Upper-division standing.
Term Typically Offered: Fall, Spring

Offers a multidisciplinary framework for studying and developing corporate entrepreneurship. Covers the climate and culture of an entrepreneurial organization, strategies for developing new business ventures within an organization, and strategies for transforming firms toward a more entrepreneurially driven organization. As a result, students will increase their understanding of environment, processes and strategies that will create value and build competence through entrepreneurial activities within organizations.

Environmental Studies (ENVS)

**ENVS 10.** Introduction to Environmental Science. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring, Winter

Course looks at the earth as an ecosystem composed of biological, chemical, and physical systems. Focus is on the interaction of these systems with each other and with human population, technology, and production. Students should acquire the fundamentals of a scientific understanding of the ecological implications of human activities. Specific topics treated within the context of ecosystem analysis include energy flows, nutrient cycles, pollution, resource use, climate changes, species diversity, and population dynamics.

ENVS 10H. Honors Environmental Science. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring, Summer

The earth as an ecosystem composed of biological, chemical, and physical systems. Focus is on the interaction of these systems with each other and with human population, technology, and production. Students should acquire the fundamentals of a scientific understanding of the ecological implications of human activities. Specific topics treated within the context of the ecosystem analysis include energy flows, nutrient cycles, pollution, resource use, climate change, species diversity, and population dynamics. Students read important original research on topics. All students participate in a semester long project that applies the principles of the course to a real environmental issue.

**ENVS 11.** Environmental Issues and Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Examines Western cultural values and personal beliefs toward the environment. Teaches critical thinking skills to analyze issues to make informed choices that may impact the earth, its resources and their management as consumers, leaders, professionals and moral agents.

**ENVS 21.** First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provides students with the opportunity to interact with fellow classmates and the seminar leader to build a community of academic and personal support.

**ENVS 110.** Contemporary Environmental Issues. 3 Units
Term Typically Offered: Fall, Spring

Examination of a variety of environmental issues with emphasis on the social aspects of the problems and solutions. The class is conducted primarily through discussion, with an unusually high degree of student responsibility. Group and individual projects are designed to involve students in community affairs as well as to give them an opportunity to develop a personal perspective on environmental issues.

**ENVS 111.** Environmental Ethics. 3 Units
Prerequisite(s): ENVS 10 or ENVS 10H or ENVS 11 or permission from instructor.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Consideration of the ethical dimensions of human interactions with the natural world and with each other in the context of complex societal needs. Students will employ critical thinking skills to integrate insights from the biological sciences, social sciences, and humanities to make ethical decisions about controversial environmental topics. Students are encouraged to examine multiple perspectives on these issues through debate, discussion and personal reflection. No prior experience with philosophy is required.
ENVS 112. International Environmental Problems. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X. Environmental Studies majors only.

General Education Area/Graduation Requirement: Writing Intensive
Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Global perspective on current problems of environmental protection and resource use. Population growth, food production, industrialization, technology and cultural change are considered, with heavy emphasis on the social dynamics of environmental problems. A variety of political views is studied, and an attempt is made to develop a perspective useful to students in personal and political decisions.

Note: PCR/IR students are encouraged to contact the department regarding enrollment into this course.

ENVS 120. Quantitative Methods for Environmental Science. 3 Units
Prerequisite(s): Must be an ENVS major or minor; STAT 1 or instructor permission.
Term Typically Offered: Fall, Spring

Research tools and methods used by environmental professionals including selected statistical procedures, data sources and presentation and interpretation of results. Students will become familiar with the wide range of equipment available to fit their special needs including the computer time-sharing system.

ENVS 121. Field Methods in Environmental Science. 2 Units
Prerequisite(s): Must be an ENVS major or minor
Term Typically Offered: Fall, Spring, Summer

This field course includes the direct observation of human impact on specific environments and examples of mitigation strategies. Students will learn information gathering and data presentation methodologies useful in environmental impact assessment. Lecture three hours per week; one-day and weekend field trips will be arranged.

Note: Course also substitutes for ENVS 175.

Field trip(s) may be required.

ENVS 122. Environmental Impact Analysis: CEQA and NEPA. 3 Units
Term Typically Offered: Fall only

Review of legislative and judicial requirements for environmental impact analysis. Students will be asked to review actual project environmental impact reports, analyze the methods employed, understand the relationship of the report to the planning process, and prepare such a document.

Note: It is recommended that students complete ENVS 128 or have some actual experience with environmental impact documentation before taking this course.

ENVS 124. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature and forms of social justice and injustice. Addresses key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academic and social activism in achieving social justice. Cross listed as ANTH 130, ID 124, ETHN 124, FACS 124 and SOC 124. Only one may be counted for credit.

ENVS 128. Environment and the Law. 3 Units
Term Typically Offered: Spring only

Introduction to environmental law, including: the evolution of environmental legislation, environmental issues in the court system, environmental regulation and administrative law, and environmental torts. Emphasis is on understanding legal process and the special challenges environmental problems present to the legal system. Cross Listed: POLS 128; only one may be counted for credit.

ENVS 130. Environmental Toxicology. 3 Units
Prerequisite(s): CHEM 1A or CHEM 6A or instructor permission.
Term Typically Offered: Spring only

Students will study the source and occurrence of contaminants in the environment; their fate and transport; and their adverse effects on humans and non-human species, populations and ecosystems. The course focuses on studying environmental issues concerning human and ecosystem health, the impact of human activity since World War II in contributing to human disease and ecosystem disruption. Risk perception and communication as it concerns environmental toxicology will also be discussed.

ENVS 135. California Water and Society. 3 Units
Term Typically Offered: Fall, Spring

This course provides the historical, scientific, legal, institutional, and economic background needed to understand the social and ecological challenges of providing water for California’s growing population, agricultural economy, and other uses- all of which are made more complex by climate change. We will look at past and current debates around cases ranging from local issues on the American River to statewide issues that converge in the Sacramento-San Joaquin Delta. Both physical and social science research skills will be developed.

ENVS 137. Conservation and Society. 3 Units
Prerequisite(s): ENVS 10 or ENVS 10H, and BIO 1
Term Typically Offered: Fall, Spring, Summer

Course will introduce students to the interdisciplinary field of conservation biology through the lens of modern society. Students will acquire a basic understanding of the history of the field of conservation, and the values that drive our desire to preserve species and natural systems. Students will learn about conservation challenges, will analyze the scientific and social factors that contribute to addressing those challenges, and will learn to appreciate the diverse perspectives that are vital in modern conservation.
ENVS 138. Introduction to Environmental Sociology. 3 Units
Term Typically Offered: Fall, Spring

The study of human society, the natural environment, and their mutual interactions. Examines environmental sociology at several levels, from the micro level of individual communities to the meso level of government policies to macro theoretical considerations. Analyzes environmental issues in a global context also included. Cross Listed: SOC 138.

ENVS 140. Energy, Society, and the Environment. 3 Units
Prerequisite(s): Upper division standing
Term Typically Offered: Fall, Spring

This course covers the concepts and tools necessary to understand society's diverse technology and policy choices around energy production and use. Students will apply both quantitative and qualitative methods to analyze opportunities and impacts of energy systems with consideration for environmental sustainability, international development, and social equity. We will consider a range of energy technologies, their historical trajectories, current drivers, and prospects for addressing energy challenges at different scales, from households to the global climate.

ENVS 144. Sustainability Science & Policy. 3 Units
Prerequisite(s): ENVS 10, BIO 1, or instructor permission
Term Typically Offered: Fall, Spring

Examines issues of environmental, social, and economic sustainability in domestic and international contexts. Students will study the science, policy, and implementation of sustainable practices regarding water, food, and energy resources. Students will learn the history of sustainability, definitions of sustainability, how sustainability is measured, and how sustainability applies to urban and rural landscapes.

ENVS 147. Urban Agriculture and Aquaponics. 3 Units
Term Typically Offered: Fall, Spring

This course uses campus initiatives in food and bio-waste recycling, combined with vermiculture and aquaponics, to address larger topics in urban food production. This subject has significance for addressing concerns about food access, security, quality, and even local economic development. The course will include hands-on activities on campus, projects with local urban agriculture organizations, and reports connecting the specifics of the course with core questions in environmental science and policy.

ENVS 149. Agroecology. 3 Units
Term Typically Offered: Fall, Spring

Ecological aspects of the production of food and fiber, with emphasis on the sustainability and adequacy of the global food supply to meet the needs of a growing, urbanized population. Covers topics basic to all agricultural systems - soil development, fertility, irrigation, nutrient cycles, crop selection - while contrasting methods developed for large-scale industrial food production with traditional and/or organic farming methods.

ENVS 151. Restoration Ecology. 3 Units
Term Typically Offered: Spring only

Overview of concepts and practices in restoration ecology, emphasizing the application of ecological principles to restoration design, implementation, and monitoring. Major course topics will include historical ecology, soils and hydrology, plant and animal ecology, exotic species, endangered species concerns, mitigation, monitoring, planning, and assessment as they apply in a restoration context. Students will work in local restoration projects; field trips required. Field trip(s) may be required.

ENVS 155. Environmental Management and Decision-Making. 3 Units
Prerequisite(s): ENVS 10 or the equivalent, or instructor permission
Term Typically Offered: Fall only

Course investigates the motivations and barriers to engaging in pro-environmental behaviors. Focus on theories from multiple social and behavioral sciences to understand how individuals form judgments and decisions regarding natural resource and ecosystem management. Specific topics may include principal-agent theory, dual-process theory, multi-criteria decision-making, theory of planned behavior, norm-value-belief, community-based social marketing, and structured decision-making. Students will build skills in stakeholder engagement and science communication.

ENVS 158. Wetlands Ecology. 3 Units
Term Typically Offered: Fall only

Introduces and discusses characteristics of wetland systems; principles of wetland ecology; functions of wetlands; and regulations and permitting process regarding development near and within wetlands. Appropriate for students planning careers in natural resource management. Though not a substitute for professional training in wetlands delineation and functional assessment, students will gain a basis for such assessments. Familiarity with basic principles of chemistry, physics, and biology recommended.

ENVS 163. Ethnecology. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only

Evaluates sustainable management of ecosystems by local indigenous people, using traditional resource management, traditional ecological knowledge and Western science. Familiarizes students with the fields of ethnobiology, ethnecology, and historical ecology. Students learn about the relationship between people and plants, with a focus on how traditional plant knowledge reflects and is reflected by environmental perceptions.

ENVS 10, BIO 1, or instructor permission.

Notes:
- Field trip(s) may be required.
- Fee course. Fee Course. $15 per student.
ENVS 165. American Environmental History. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Traces the development of the changing relationship between human society and the natural environment. Focuses on changing attitudes and behaviors toward the environment from the pre-colonial era through the present. Also examines the relationship between industrialization and the technological revolution and nature and examine past and present conservation and environmental movements.
Cross Listed: HIST 165; only one may be counted for credit.

ENVS 171. Environmental Politics and Policy. 3 Units
Prerequisite(s): instructor permission.
Term Typically Offered: Spring only

Politics of human interaction with land, air and water. Political analysis of agenda setting, policy formation and administration (national, state and local) of environmental programs. Focus on contemporary issues such as energy alternatives, management of toxics, land development, and pollution control. Course also substitutes for ENVS 128.
Cross Listed: POLS 171; only one may be counted for credit.

ENVS 175. Aquatic Pollution Assessment. 3 Units
Prerequisite(s): BIO 160, CHEM 1A or concurrent enrollment; or instructor permission.
Term Typically Offered: Fall, Spring

Examines both the negative and positive impacts that anthropogenic effects have on groundwater, streams, and lakes by utilizing the application of field sampling techniques and laboratory analysis currently used to assess pollution impacts. Introduces the interrelationships among plants, animals and environmental factors within polluted aquatic ecosystems. Emphasizes laboratory and field procedures used in strategies taken to assess and manage these impacts.
Note: Course also substitutes for ENVS 121.

ENVS 186B. Ecological and Environmental Issues Seminar. 1 Unit
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2.
Term Typically Offered: Fall, Spring

Series of at least 10 seminars in ecological and environmental issues. Topics with each seminar will vary each semester.
Note: May be repeated for credit. No more than one unit of ENVS 186B may be counted toward the upper division major requirement. Cross Listed: BIO 186B; only one may be counted for credit.
Credit/No Credit

ENVS 187. Environmental Studies Seminar. 1 Unit
Term Typically Offered: Fall, Spring

Students will participate in the semester-long University seminar and will be exposed to a variety of environmental issues and topics presented by speakers from CSUS, the USGS, government and professional organizations, among many others. Topics include issues such as climate change, water use and conservation, environmental sustainability, environmental policy and decision-making, and many important regional issues.
Credit/No Credit

ENVS 190. Senior Thesis. 3 Units
Prerequisite(s): ENVS 112 (International Environmental Problems, writing intensive), or instructor permission.
Term Typically Offered: Fall, Spring

Explores an environmental problem or issue in great depth. It includes a detailed review of the scientific literature, synthesis, and integration of information from the literature, and evaluation of the information leading to conclusions and recommendations that address the problem or issue. Thesis subjects are chosen by the student and can be from a myriad perspectives addressed in the Environmental Studies curriculum including scientific, social, political, economic, and cultural issues. Enrollment ordinarily occurs in a senior’s final semester.
Note: The course is usually taken in a student’s final semester but might be taken in the penultimate semester with the instructor’s permission.
Credit/No Credit

ENVS 195. Environmental Studies Internship. 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience in an approved legislative or administrative office at some level of local, state or federal government, or in a public or private organization that is concerned with the environment. Supervision is provided by the faculty instructor and responsible officials in the work situation.
Note: Open to majors only, subject to instructor permission.
Credit/No Credit

ENVS 195M. Mini Internship. 1 Unit
Term Typically Offered: Fall, Spring

This introductory work experience is designed for sophomores and juniors. The student must complete 45 hours of environmentally related work in a volunteer position with an environmental organization or participation in an environmentally focused event. Supervision is provided by the faculty instructor and responsible officials in the work situation.
Note: Open to majors only, subject to instructor permission.
Credit/No Credit

ENVS 196G. Youth Recreation in Camp Settings. 3 Units
This course examines camp programs in a wide variety of settings, for a variety of populations. Topics cover camp theories, camp management, risk-management, activity planning, inclusive programming, and staff training. Includes an emphasis on leadership, supervision, and organizational development of camp programs. Course uses lecture, field experiences, guest speakers, and service learning.

ENVS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall

Individual projects or directed reading.
Note: Open only to students who are competent to carry on individual work. Admission requires permission of the Director and the faculty member who will direct the work.
Credit/No Credit
ENVS 295. Practicum.  2 - 6 Units
Prerequisite(s): Permission of faculty advisor and director.
Term Typically Offered: Fall, Spring

Graduate internship experiences in practical setting.
Note: Open only to graduate students specializing in environmental studies.
Credit/No Credit

ENVS 296. Experimental Offerings in Environmental Studies.  1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Courses offered on an experimental basis.

ENVS 299. Special Problems: Individual Study.  1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.
Credit/No Credit

Ethnic Studies (ETHN)

ETHN 1A. Elementary Swahili.  3 Units
Term Typically Offered: Fall, Spring

Introduction to the language of Swahili speaking people. Emphasis is on developing vocabulary and writing skills. Attention will be given to understanding the relationship of language to culture.

ETHN 1B. Elementary Swahili.  3 Units
Prerequisite(s): ETHN 1A or its equivalent; or instructor permission.
Term Typically Offered: Fall, Spring

Continuation of ETHN 1A with more emphasis on developing reading and listening skills along with further developing writing abilities. Provides deeper knowledge of the customs, traditions and experiences of Swahili speaking people.

ETHN 10. Africa: Myths and Realities.  3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to African Studies. Examines the most common myths found in both popular and academic literature about Africa and its people.

ETHN 11. Introduction to Ethnic Studies.  3 Units
Term Typically Offered: Fall, Spring

This course introduces foundational concepts and themes of the discipline of Ethnic Studies. The course focuses on the four historically defined racialized core groups: Native Americans, African Americans, Asian Americans, and Chicanxs/Latinxs.

ETHN 11H. Introduction to Ethnic Studies (Honors).  3 Units
Term Typically Offered: Fall, Spring

This course introduces foundational concepts and themes of the discipline of Ethnic Studies. The course focuses on the four historically defined racialized core group: Native Americans, African Americans, Asian Black Americans, and Chicanxs/Latinxs.

ETHN 14. Introduction to Asian American Studies.  3 Units
Term Typically Offered: Fall, Spring

Introduction to the discipline of Asian American Studies, including the history, purpose, and development of the field. Fundamental concepts and approaches in Asian American Studies will be discussed. Course also explores contemporary challenges and opportunities of Asian American Studies.

ETHN 21. First Year Seminar: Becoming an Educated Person.  3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills.
Note: Only open to students admitted to EOP Learning Communities Program.

ETHN 22. Contemporary Issues and Social Change.  3 Units
Prerequisite(s): ETHN 21
Term Typically Offered: Spring only

Generation after generation, university students have been key constituents in movements for social change. From public demonstrations to research studies, colleges and universities afford countless opportunities for students to advocate for a better world. This course explores how students can utilize university resources to explore interests and concerns, hone academic skills, and contribute to social change.

ETHN 23. Introduction to Chicano/Latino Studies.  3 Units
Term Typically Offered: Fall, Spring

Introduction to exploring the Chicanx/Latinx experience in the U.S. An overview of the diverse and multiple experiences of people of Mexico, Cuba, Puerto Rico, Dominican Republic, Central and South America. From a socio-historical perspective, the intersections of class, race/ethnicity, and gender will be explored.

ETHN 30. Introduction to Chicano/Latino Studies.  3 Units
Term Typically Offered: Fall, Spring

Introduction to exploring the Chicanx/Latinx experience in the U.S. An overview of the diverse and multiple experiences of people of Mexico, Cuba, Puerto Rico, Dominican Republic, Central and South America. From a socio-historical perspective, the intersections of class, race/ethnicity, and gender will be explored.

ETHN 30. Introduction to Chicano/Latino Studies.  3 Units
Term Typically Offered: Fall, Spring

Introduction to exploring the Chicanx/Latino experience in the U.S. An overview of the diverse and multiple experiences of people of Mexico, Cuba, Puerto Rico, Dominican Republic, Central and South America. From a socio-historical perspective, the intersections of class, race/ethnicity, and gender will be explored.

ETHN 50. Native American Religion and Philosophy.  3 Units
Term Typically Offered: Spring only

In-depth study into the principles of Native American religion and philosophical thought and the resulting impact of European culture upon the Native American societies.

ETHN 53. Introduction to Native American Studies.  3 Units
Term Typically Offered: Fall, Spring

Broad overview to the field of Native American Studies, including history, sovereignty, popular imagery, economic development, literature, philosophy, religion, urbanization, gender, social issues, and cultures of native peoples. Introduction to Native American Studies; recognizes intra-tribal, trans-national, and various historical, cultural, and political relationships, and issues through an interdisciplinary approach. The primary focus will be post 1900.
ETHN 70. Introduction to Pan African Studies. 3 Units
Term Typically Offered: Fall, Spring

Introduction to Pan African Studies. It is intended to introduce students to the context from which Pan African Studies arose as an academic discipline. It provides an overview of the academic, cultural, economic, and political inclusion of the pre/post colonial experience contributions of peoples of African descent. It is intended to show the interdisciplinary character of the study of Pan Africanism.

ETHN 71. Leadership in the African Diaspora. 3 Units
Term Typically Offered: Spring only

Provides students with an understanding of the unique contours of leadership throughout the African Diaspora through an interdisciplinary approach to understanding particular problems, necessities and styles of leadership. Examines leaders and leadership roles within the African Diaspora with an emphasis on a variety of positions and contexts in the areas of politics, religion, art, and education, including the international, national, and local community (grassroots) arenas.

ETHN 72. Black Images in Popular Culture. 3 Units
Term Typically Offered: Fall, Spring

This course is designed as a survey of the Black image within popular culture. Students will interrogate the roots of African American stereotypes within North American culture. Through an understanding of this history, we will assess how these stereotypes have evolved over time and the role they have played in constructing and positioning African Americans in American society. Students examine the ways in which African Americans actively construct images of themselves for a variety of political and social purposes.

ETHN 94. CAMP Transition and Problem Solving. 3 Units
Term Typically Offered: Fall, Spring

Designed for CAMP students new to University life, form and functions. The three-hour lecture/discussions per week are focused on assisting students with making a successful transition to the University.

Note: May be repeated once for credit.

Credit/No Credit

ETHN 96B. Contemporary Issues and Social Change. 3 Units
Term Typically Offered: Fall, Spring

Generation after generation, university students have been key constituents in movements for social change. From public demonstrations to research studies, colleges and universities afford countless opportunities for students to advocate for a better world. This course explores how students can utilize university resources to explore interests and concerns, hone academic skills and contribute to social change.

ETHN 98. Co-Curricular Activities. 1 - 3 Units
Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and intellectual concerns in Ethnic Studies.

Note: Recommended for students new to the university experience and students having completed fewer than 45 units of course work. May be repeated twice for total credits not to exceed 6 units.

Credit/No Credit

ETHN 100. Ethnic America. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)

Term Typically Offered: Fall, Spring, Summer

Through an interdisciplinary approach, introduces the four major American ethnic groups - Black, American Indian, Chicano, Asian American. Focuses on themes common to all four groups (racism, economic and political oppression) and demonstrates the varied contributions of each culture to American social and economic life.

ETHN 101. The Asian American Experience. 3 Units
General Education Area/Graduation Requirement: GE AREA D

Term Typically Offered: Fall, Spring

Survey of the experiences of various Asian groups in the U.S. from the mid-nineteenth century to present. The historical forces affecting the immigration and settlement patterns of Chinese, Japanese, Filipinos, Koreans, Asian Indians and Southeast Asians (Vietnamese, Cambodians, Laotians) will be compared and contrasted. Students will analyze the problems resulting from limited access to the social, political, and economic institutions of U.S. society.

ETHN 111. Southeast Asians in the U.S. 3 Units

Term Typically Offered: Spring only

Examine several issues and factors shaping the experiences of recent immigrant groups (Vietnamese, Mien, Hmong, Cambodians, Laotians) from Southeast Asia to the U.S. Focuses on the dynamic relationship between ethnicity, minority assignment and social integration as these effect the experiences of these immigrant groups.

ETHN 112. Contemporary Asian American Issues. 3 Units
General Education Area/Graduation Requirement: GE AREA D

Term Typically Offered: Fall, Spring

Examines several important social issues such as emerging communities, education, employment and occupations, anti-Asian violence, media images and stereotypes, families and identities, and political empowerment shaping the contemporary experiences of diverse Asian American groups.

ETHN 113. Asian American Communities. 3 Units
General Education Area/Graduation Requirement: GE AREA D

Term Typically Offered: Fall, Spring

Examination of the historical and contemporary experiences of various Asian American communities through active investigation. The concepts, methods, and theories commonly utilized in community research will be covered.

ETHN 114. Asian Americans and Globalization. 3 Units
General Education Area/Graduation Requirement: GE AREA D

Term Typically Offered: Fall, Spring

Examination of the Asian American immigration within the context of the larger Asian global migration. Emphasis will be placed on the period from the 16th century to the contemporary Asian global migration. A critical examination of the perspectives on the Pacific region and how the economic, social, political and historical forces affected migration and the formation of Asian global communities.
ETHN 115.   Biracial and Multiracial Identity in the US.  
Term Typically Offered: Fall, Spring  
3 Units

Examination of biracial/multiracial populations, their social histories,  
social experiences and social identities within various sociological  
and social psychological theoretical frameworks. An exploration of  
the relationship biracial/multiracial groups have had, and continue to have,  
with the larger white majority and monoracially identified minorities.

General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall, Spring  
3 Units

Critical examination of the historical and contemporary political  
experiences of Asian Americans and their pursuits of immigration rights,  
citizenship, political identity, equality, freedom, and incorporation into the  
U.S. political system.

ETHN 117.   Black Political Thought.  
Term Typically Offered: Spring only  
3 Units

To systematically and analytically introduce the predominant political  
trends and concepts presently entertained and harbored in the Black  
Community. A necessary adjunct to this dialogue is the racist theme in  
American society since on balance this is the matrix out of which the  
political alternatives and concepts grew.  
Cross Listed: GOVT 117; only one may be counted for credit.

ETHN 118.   Asian American Women.  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring  
3 Units

Using an interdisciplinary approach, course offers a broad introduction to  
the principle values and traditions shaping Asian American women’s lives in the U.S. 
Examines cultural diversity, gender inequality and conflicts between traditions and social practices through critical analysis of  
literature, film and cultural theories as expressions of identity. Topics covered include: cultural heritage and philosophies, intergenerational conflict, transnationalism, gender roles and socio-economic practices. 
Provides comprehensive understanding of principle factors governing Asian American women’s lives at the nexus of Asian and American cultures.  
Cross-listed: WOMS 118.

ETHN 119.   The Filipino American Experience.  
Term Typically Offered: Fall, Spring  
3 Units

Overview of the Filipino American experience from the 16th century to the present. Immigration and settlement of Filipinos in the U.S. will be critically examined within the context of historical, social, economic, and political forces in American society. How the Filipino labor market status, race, class, and sex/gender relations affected the evolution and formation of Asian American communities will be critically examined.

ETHN 120.   Hmong American Experiences.  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall only  
3 Units

Explores the multi-generational and multi-faceted experiences of Hmong Americans. Focusing on the historical and contemporary experiences of Hmong populations in the U.S., the course addresses important topics such as U.S. empire and militarism, war, community development, generational differences, health, gender, sexuality, media and representation, race relations, violence, and community engagement and empowerment.

ETHN 121.   Sikh Americans and Globalization.  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Spring only  
3 Units

Examines the history and migration of Sikhs throughout the world, including the United States. Topics include the origin of Sikhism, Sikh history/religion/culture/social institutions and social relations, direct and secondary migration, race and ethnic relations, second-generation identity issues, and global diaspora/transnationalism.

ETHN 122.   Asian Americans in Media and Popular Culture.  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Spring only  
3 Units

A critique of dominant representations of Asian Americans in media and popular culture. The ways in which media and art are used by Asian Americans for social change will also be explored. Students create their own forms of media and art to accurately represent Asian Americans.

ETHN 123.   Advanced Topics Race & Intersectionality in Film.  
General Education Area/Graduation Requirement: Arts (Area C1)  
Term Typically Offered: Spring only  
3 Units

This course examines the social and material stakes in American cinematic representations of race, gender, and sexuality. Utilizing an intersectional framework that sees these social categories as always defined by one another we discuss film as an artistic medium that is integral to the construction and contestation of ideas of social difference. In the process, we move beyond debates about positive or negative cinematic representations and instead discuss the ways that the art of film shapes and reflects social structures.

ETHN 124.   Sikh Americans and Globalization.  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Spring only  
3 Units

Examines the history and migration of Sikhs throughout the world, including the United States. Topics include the origin of Sikhism, Sikh history/religion/culture/social institutions and social relations, direct and secondary migration, race and ethnic relations, second-generation identity issues, and global diaspora/transnationalism.

ETHN 125.   Asian Americans in Media and Popular Culture.  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Spring only  
3 Units

A critique of dominant representations of Asian Americans in media and popular culture. The ways in which media and art are used by Asian Americans for social change will also be explored. Students create their own forms of media and art to accurately represent Asian Americans.

ETHN 126.   Advanced Topics Race & Intersectionality in Film.  
General Education Area/Graduation Requirement: Arts (Area C1)  
Term Typically Offered: Spring only  
3 Units

This course examines the social and material stakes in American cinematic representations of race, gender, and sexuality. Utilizing an intersectional framework that sees these social categories as always defined by one another we discuss film as an artistic medium that is integral to the construction and contestation of ideas of social difference. In the process, we move beyond debates about positive or negative cinematic representations and instead discuss the ways that the art of film shapes and reflects social structures.

ETHN 130.   Chicano/Mexican-American Experience.  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall, Spring, Summer  
3 Units

Transmits knowledge and understanding of how racism confronts and divides American society. Attention will be given to the effects of racism on the experiences of Chicanos/Mexican Americans in American society.

ETHN 131.   La Raza Studies.  
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D  
Term Typically Offered: Fall, Spring  
3 Units

Ethnohistorical analysis of La Raza Cosmica designed to convey crosscultural knowledge and understanding of peoples from Mexico, Cuba, Puerto Rico and Central America. Includes a comparative analysis of ethnic identity and a survey of socio-cultural, political and economic changes which have influenced U.S./Latin American policy and immigration patterns of Latinos to the U.S.

ETHN 132.   La Mujer Chicana.  
Term Typically Offered: Fall, Spring  
3 Units

Critical analysis of the cultural influence that the family, community, religion, economic status and peers play upon the decisions, the values and roles held by Chicanas. An examination of the processes which have resulted in the change of attitudes, values and roles of the contemporary Chicana.
Examines the regulatory powers that American Indian tribes possess over their peoples and territories. Students will acquire an understanding of tribal governmental history, internal affairs, jurisdictional conflicts, government relations, federal Indian public policy and economic development. The political aspects of tribal government administration and the emergence of self-governance as a foundation for self-determination, development and sustainability will be explored.

ETHN 143. American Indians, Film and Popular Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only
Students will examine various ways American Indians are imagined by popular culture through film, including drama, comedy and documentary. Beyond identifying and analyzing images of Indians as well as myths about their historical and contemporary circumstances, students will be challenged to investigate and understand the tenuous relationship between fact and fiction in popular culture.

ETHN 144. Native Voice, Memory, and Biography. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring
Through the genre of biography and autobiography, students will examine the relevance of Native voice and memory in reference to the development of identity, cultural transformation, indigenous knowledge, political activism, and historical consciousness. Students will analyze the political, economic and cultural contexts in which Native voices and memories emerge.

ETHN 145. Native American Tribal Governments. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Examines the political, economic and social relationships on both sides of the border will be examined.

ETHN 146. California Indian Studies. 3 Units
Term Typically Offered: Fall, Spring
This upper division course surveys California Indian Studies. The course is a place-based approach to anti-racist and anti-colonial movements through community centered learning and is a foundational overview of contemporary political, social, economic, and environmental representations through California Indian perspectives and epistemologies. Topics can include but are not limited to: tribal citizenship, self-determination, decolonization, sovereignty, cultural revitalization, and settler colonialism.

ETHN 147. Native American Experience. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer
Advanced course in American Indian history, political and social relations, with emphasis upon current movements and problems of Native American life.

ETHN 148. Native American Women. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Examines the traditional, non-traditional, and contemporary roles of Native American women. The relationship of these roles to both Indian and non-Indian societies. An exploration of Native women’s issues through histories, literatures, and oral traditions, focusing on Native American women’s perspectives. Colonization has drastically impacted native women and the lives of their families, nations and communities. Resistance and de-colonization efforts by Native women will be illuminated and analyzed.
ETHN 152. American Indians, Sovereignty and US Laws. 3 Units
Term Typically Offered: Spring only

Examines the legal history developed between American Indians and Euro-Americans. Includes an introduction to events, circumstances, and relationships that developed social and legal concepts. There will be an examination of constitutional principles, laws and United State’s policies from the early 1800’s to the present and the impacts of these doctrines on American Indian sovereign powers. The students will acquire a basic understanding of the sources of political conflict in contemporary American Indian communities and American society.

ETHN 155. Genocide and Holocaust Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines genocide cases, such as the Armenian genocide, the Jewish Holocaust, the genocide of Roma, the Cambodian "Killing Fields" genocide in East Timor, ethnic cleansing in Bosnia, the genocide of the Tutsi in Rwanda and genocide in the Darfur region of Sudan, as well as the genocide of Native Americans, and other indigenous peoples. Addresses causes of, and responses to, genocide around the world, especially in Africa, Asia and Latin America. This phenomenon is examined historically, descriptively, comparatively and theoretically.

ETHN 156. Indigenous People. 3 Units
Term Typically Offered: Fall, Spring

Common existential experiences of indigenous people all over the world namely the Batwa and Pygmies in Central Africa, the Khoisan of Southern Africa, the Berber in Northern Africa, the Smai in Northern Europe, the Basque in France and Spain, the Hawaiians in the Pacific, the Ainu of Japan, the Aborigines in Australia, and Native Americans in the Americas.

ETHN 151. Chicano/Latino Politics and Public Policy. 3 Units
Term Typically Offered: Fall, Spring

Explores the historical and contemporary development of Chicano/Latino political activity in the United States. Will review essential components of the U.S. political system and examines relevant theories and concepts that have impacted public policy debate related to education, employment, health, housing, immigration, and income inequity. Primarily focuses on the political history and present day circumstances of the three largest Latino groups, Mexican Americans, Puerto Ricans, and Cuban Americans.

ETHN 156. American Indigenous Families: Issues and Perspectives. 3 Units
Term Typically Offered: Fall, Spring

Application of research and theory specific to Latino/Chicano and American Indian families; strategies for applying this knowledge to areas of service, therapy, policy, and education. Lecture/discussion, internet enhancement. Cross Listed: FACS 166A; only one may be counted for credit.

ETHN 167. Asian American Families: Issues and Perspectives. 3 Units
Term Typically Offered: Fall, Spring

Family is an adaptable and changing institution of society. Research and theory on Asian American families will be highlighted with an emphasis on applying the information to areas of service, therapy, policy, and education. Experiences of various Asian groups in the U.S. will be compared. Cross Listed: FACS 166B; only one may be counted for credit.
ETHN 180A. Forms of African-American Poetry. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Focuses on four or more African-American poets, representing a historical succession of literary periods.

ETHN 180B. Forms African-Am Fiction. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Focuses on four or more African-American writers of fiction, surveying texts representing a historical succession of literary periods.

ETHN 181. Cinematic Representations of Pan African Identities. 3 Units
This course is designed as an intensive survey of African American cinema that engages questions of history, culture, politics and the overall function of race and representation in American society. Our focus in this class is to understand Pan African filmmakers and their respective films. We will focus on cultural factors intrinsic to Pan African societies and how cinema fits into this context, as well as how issues of gender, sexuality and class impact the films.

ETHN 182. Protest in Hip Hop. 3 Units
This course is designed to be an intensive survey of the evolution of hip hop as a form of social protest that developed into a global cultural movement. The course draws parallels from hip hop's historical function with past and present U.S. social movements advocating for social justice, including the recent #BlackLivesMatter movement. Students will also examine cultural studies theoretical concepts analyzing mainstream’s exploitation and marginalization of race, class, gender and sexuality representations in hip hop.

ETHN 183. Research in Ethnic Studies. 3 Units
Prerequisite(s): One upper-division Ethnic Studies course.
Term Typically Offered: Fall, Spring
Designed to provide students with contemporary theoretical knowledge and practical skills for conducting research in the African American, Asian American, Chicano/Latino, and Native American communities. Methodology which addresses issues and research perspectives distinctly germane to researching a targeted community is examined.

ETHN 184. Ethnic Studies Fieldwork. 1 Unit
Prerequisite(s): Ethnic Studies majors only
Corequisite(s): ETHN 183
Term Typically Offered: Fall, Spring
Allow students, with faculty supervision, to work closely with the ethnic minority communities. Students may work with a community agency, community organization, or other site with instructor approval.
Credit/No Credit

ETHN 185. Ethnic Studies Seminar. 2 Units
Prerequisite(s): Ethnic Studies majors only
Corequisite(s): ETHN 184
Term Typically Offered: Fall, Spring
Seminar discussions designed to synthesize and assess knowledge in Ethnic Studies courses applied to fieldwork experiences.

ETHN 186. Co-Curricular Activities. 1 - 3 Units
Term Typically Offered: Fall, Spring
Co-curricular activities related to the subject matter and intellectual concerns in Ethnic Studies. For example, students may earn ETHN 198 credits by participating in Ethnic Studies classes as tutors and/or section or discussion leaders; teaching as voluntary instructors or tutors in courses offered by community organizations.
Note: May be repeated twice for total credits not to exceed 6 units.
Credit/No Credit

ETHN 189. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Admission requires approval of the faculty member under whom the individual work is to be conducted, the appropriate program director and the Chair of Ethnic Studies.
Credit/No Credit

ETHN 203. Contemporary Ethnic Studies Issues. 3 Units
Prerequisite(s): MA Education (Multicultural Education) Students only.
Term Typically Offered: Fall only
Examines important social issues that shape the contemporary experience of African Americans, Asian Americans, Latinx/Chicanx, and Native Americans. Social issues such as: 1) Discrimination and violence, 2) Economic inequality (employment, income, wealth, retirement), 3) Educational challenges, and 4) Global context of race and class inequality.

ETHN 204. Foundations & Theories. 3 Units
Prerequisite(s): MA in Education (Multicultural Education) students only.
Term Typically Offered: Spring only
Foundations and theories in Ethnic Studies, identifies, analyzes, and critically examines the experience of African Americans, Asian Americans, Latinx/Chicanx, and Native Americans.
Note: This course is a lecture/discussion that is 45 hours, 3-unit course offered in eight weeks (including several Saturdays).

ETHN 299. Special Problems/Individual Study. 3 Units
Term Typically Offered: Fall, Spring
Open to classified and unclassified graduate students. Allow qualified students to explore topics, issues, and subjects pertinent to ethnic groups in the U.S.
Credit/No Credit
Executive Masters in Business Administration (EMBA)

EMBA 210.  EMBA Orientation.  1 Unit
Prerequisite(s): Acceptance to the EMBA Program.
Term Typically Offered: Fall, Spring

Includes individual introductions, program overview (content and administrative policies and practices), overviews, critical thinking seminar, seminar on academic research methods and tools, introduction of on-line technologies for instructional-related activities, and team building activities.

Credit/No Credit

EMBA 222.  Managerial Accounting for Executives.  3 Units
Prerequisite(s): EMBA 210.
Term Typically Offered: Fall, Spring

Consistent emphasis on managerial accounting and reporting is cost identification, allocation and control. Expands the traditional view of accounting to include an examination of the integration of the historic three tools with cost elements. Expanded view would include environmental and political costs, compliance with multinational reporting standards, tax compliance and treaty cost.

EMBA 223.  Quantitative Methods for Decision Making.  3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Presents how business decisions are now made in an increasingly competitive and complex business environment. The emphasis will be on how to better respond to this challenge by using quantitative methods to forecast, extrapolate, analyze, and simulate a business situation for effective decision-making. Cases studies will be used to develop those capabilities.

EMBA 224.  Managerial Finance for Executives.  3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Provides students a well-rounded understanding of the language and financial expectations/performance of organizations. Candidates will learn how to evaluate decisions from the perspective of shareholder and stakeholders. With this perspective they will be better equipped to make better business decisions and also understand the financial impact of those decisions.

EMBA 225.  Organizational Design and Management.  3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Review the organization theory from a macro perspective (structure, process, technology, people, and culture). Special attention will be paid to organization structure, human resources, design, control, culture and inter-organizational relationship.

EMBA 226.  Technology Management for Executives.  3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Covers the major challenges organizations deal with today as they attempt to manage their key technological resources as well as with implementing technological innovations. Addresses the digital opportunities and threats organizations face from senior management perspectives.

EMBA 227.  Strategic Marketing Management.  3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Presents how modern marketing principles can be applied to real-world situations. The emphasis will be on studying strategies used by organizations in today's highly competitive and evolving marketplace. Case studies will be utilized to fully develop techniques for creating marketing programs given varying levels of resources and information available under diverse market conditions.

EMBA 228.  Strategic Analysis for Executives.  3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Focuses on the competitive strategy of the firm and examines issues central to its long-term competitive position by utilizing the cutting-edge strategic approaches. Develops frameworks that are useful in analyzing a firm's competitive environment and developing firm-specific capabilities that contribute to its competitive advantage. Addresses the economic logic and administrative challenges associated with horizontal diversification, vertical integration and global expansion.

EMBA 229.  Leadership and Change Management.  3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Introduce the concept of leadership in business organizations. Key themes: leading teams and leading during times of change. An integral part is to study current business leaders and analyze their leadership practices.

EMBA 241.  Strategic Supply Chain Management.  3 Units
Prerequisite(s): EMBA 210, EMBA Orientation.
Term Typically Offered: Fall, Spring, Summer

Explores key issues in designing and managing sustainable production and service supply chains with an overview of effective supply chain strategies and decision processes in a globally changing business environment. This course provides a set of strategic frameworks and analytical tools to help executives identify, evaluate, improve and optimize the financial outcomes and sustainability of supply chains.

EMBA 242.  Product and Brand Management.  3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

An organization's products and services are among the most important determinants of its ultimate survival and success since organizations rely on repeat business. No organization can survive over the long term if its products and services do not serve the needs of its customers, whether they are external or internal to the entity. Focuses on developing successful products and services as an on-going and iterative process. It explores customer needs and expectations change, the dynamics of the marketplace make, and the need to continually refine and improve the product and service offerings. Attention is given to how and when products must be modified over time to achieve their maximum potential, and eventually eliminated so resources can be directed to new products and services with greater long-term value.
EMBA 243. Legal Issues in Business Environment. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring
Addresses sales contracts, employment law, alternative dispute resolution, intellectual property, and antitrust matters. Covers the interaction between a client and an attorney, how to use and communicate with a lawyer, and how to make legal-executive decisions. In all components, the course stresses ethical standards and the responsible roles of businesses in society.

EMBA 244. Corporate Performance Measurements. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring
Introduces models to evaluate uncertain project outcomes, financial methods to estimate the intrinsic worth of the firm, metrics to evaluate firm performance in terms of shareholder value created, tools to analyze shareholder wealth consequences of corporate restructuring activities, and discusses the ethical implications of corporate restructuring activities. An additional dimension of metrics will include human based metrics such as performance reviews and human development.

EMBA 245. Competing in the Global Marketplace. 3 Units
Prerequisite(s): Completion of orientation course.
Term Typically Offered: Fall, Spring
Presents the principles of effective international management in a complex global environment of interactive socio-cultural, economic, and political forces. Covers competitive strategies in the rapidly growing globalization and addresses what today's networked economy offers.

EMBA 246. Managing Creativity and Innovation. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring
Provides students with a strong theoretical foundation and a set of practical tools for the management of creativity and innovation. It will help students understand the innovation process and rethink an organization's human resources strategy and transform it into a system that will promote growth and effectiveness at all levels of the organization. Provides a framework for a learning organization to recognize failures, disruptive technologies, and strategies to overcome them.

EMBA 247. Executive Decision Making. 3 Units
Prerequisite(s): Completion of EMBA Program.
Term Typically Offered: Fall, Spring
Provides a framework for analyzing and identifying key management issues as well as developing plans for action. Focuses on identifying what managers do, what distinguishes effective management, how managers make decisions, and what makes a company excellent.

EMBA 248. Project Management for Executives. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring
Covers the knowledge and skills as well as the principles and practices required to organize, plan and control projects of all sizes. Topics covered: a review of project characteristics and vulnerabilities, development of managerial philosophy and execution objectives, organization structure and interfaces, and management and control techniques.

EMBA 249. Management in the Public Sector. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring
Managing public sector organizations requires unique skill sets. Governmental entities serve multiple constituencies, some of which may have differing and competing objectives and needs. Their customers include those who utilize the entity's products and services, taxpayers who fund the organization, publicly elected officials who set new directions with every change in administration, oversight groups which monitor governmental activities, and the ever-watchful media. Accordingly, managers in the public sector need to function effectively in highly volatile and political environments. Traditional and innovative management practices have to be tempered by political realities and the public's emphasis on service with accountability. Managers have to perform their traditional roles while also being public relations specialists in dealing with the various constituencies of the public sector entity.

EMBA 260. EMBA Individual Project. 4 Units
Term Typically Offered: Fall, Spring

EMBA 269. Experimental Offerings in Executive Management. 3 Units
Term Typically Offered: Fall, Spring

EMBA 299. Special Problems in Executive Management. 1 - 3 Units
Prerequisite(s): Classified graduate status or instructor approval.
Term Typically Offered: Fall, Spring
Individual projects or directed reading with examination for students qualified to carry on independent work.

Family and Consumer Sciences (FACS)

FACS 100. Research: Methods and Application in Family and Consumer Sciences. 3 Units
Prerequisite(s): 6 FACS units completed. FACS majors only
Term Typically Offered: Fall, Spring, Summer
Study of methods and application of research in the field of Family and Consumer Sciences. Focus on scientific inquiry, methodology, evidenced-based practice, interpretation of research results, program and project evaluation, and professional communication. Includes the examination of ethical practices, professional presentation skills, and technical writing skills.

FACS 140. Family Resource Management. 3 Units
Term Typically Offered: Fall, Spring
Management of resources in family systems. Interaction of families with other societal and environmental systems in acquiring and using resources to meet goals and other demands.
FACS 141. Family Finance. 3 Units
Term Typically Offered: Fall, Spring

Economic problems of and financial management by the individual and family. Topics include: income patterns, inflation, credit, contracts, housing, financial services, insurance, taxes, investments, retirement income planning.

FACS 168. Senior Seminar. 3 Units
Prerequisite(s): 21 FACS units.
Term Typically Offered: Fall, Spring

Designed to synthesize knowledge in Family and Consumer Sciences. Examination of the concentration in the major and career exploration. Analysis of public policy and ethical issues, professionalism and leadership strategies. Includes personal and professional competency assessment and development of an academic and professional portfolio.

FACS 195A. Field Study: Selected Areas in Family and Consumer Sciences. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Guided study and experience in some area within Family and Consumer Sciences in which the student needs orientation or greater depth of study in a specialized field.

Credit/No Credit

FACS 195C. Internship. 1 - 3 Units
Prerequisite(s): Upper division status; instructor permission obtained in the preceeding semester; 2.5 GPA or above.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved business, government, or service agency. Internships are offered for the purpose of increasing student understanding of the nature and scope of agency operations and giving students orientation in occupational specialties. Supervision is provided by authorized persons in the cooperating agencies and collaborative supervision is provided by the Family and Consumer Sciences faculty. Each student is required to maintain a record of activities and assignments and to prepare periodic reports.

Note: Student must make arrangements with a faculty member for a work program one semester prior to admittance to the course. A minimum of three hours per week per unit of credit is required.

Credit/No Credit

FACS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Departmental petition required.

Credit/No Credit

Family Studies and Human Development (FSHD)

FSHD 50. The Family and Social Issues. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Family structure, systems and functioning in marriage and other partnerships, parenting, work issues, domestic violence, divorce, and remarriage. Focus on social issues including gender, race, ethnicity, and class. Historical and theoretical perspectives on families in America. Introduction to research in family sciences and public policy implications. Lecture, discussion.

Note: Not open for credit to students who have taken SOC 5.

FSHD 52. The Child In The Family. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Physical, social, emotional and cognitive development of the child, conception through adolescence, in relation to the family. Strong theoretical emphasis. Introduction to methods of study, including observation and interview. Lecture, discussion, fieldwork.

Note: Not open for credit to students who have taken CHDV 137, CHDV 138, or PSYC 148.

FSHD 108. Family Communication. 3 Units
Prerequisite(s): COMS 8, FACS 50, SOC 166, or instructor permission.
Term Typically Offered: Fall, Spring

Study of the family as a small group with emphasis on understanding and interpreting the dynamics of family communication using various communication and social-psychological theories. Opportunity to develop an analytical framework.

Cross Listed: COMS 108; only one may be counted for credit.

FSHD 150. Family Stress and Coping: Multicultural Focus. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Study of multicultural families and diverse family forms, with a focus on how families function under stress. Family theory and research are applied to the interpretation and analysis of selected literary work, both in print and film formats.
FSHD 152. Adolescent Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or FACS 52, or instructor permission.
Term Typically Offered: Fall, Spring

In-depth study of the achievements and challenges associated with the adolescent stage of development. Focus on understanding the needs and motivations of adolescents and the challenges they face within their socio-cultural environment. Lecture, discussion.
Note: Not open to students who have taken PSYC 149. Previous or concurrent enrollment in CHDV 133 strongly recommended.

FSHD 154. Issues in Parenting. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or FACS 52, or instructor permission
Term Typically Offered: Fall, Spring

Survey of historical and contemporary attitudes toward parenting. Review of research on child-rearing and parent-child relationships. Use of case studies to explore the influence of personality, developmental stage, family structure, ethnic and cultural factors on parenting. Lecture, Case Study.
Note: Previous or concurrent enrollment in CHDV 133 strongly recommended. Cross-listed: CHDV 154; only one may be counted for credit.

FSHD 155. Family Life Education. 3 Units
Prerequisite(s): FACS 50; and FACS 100 or CHDV 133; and senior standing.
Term Typically Offered: Fall, Spring

Historical and philosophical perspective on family life education across the lifespan. Practice in curriculum development including content, objectives, and teaching strategies.

FSHD 156. Child Life and Family-Centered Care. 3 Units
Prerequisite(s): FACS 52 or CHDV 30 or CHDV 35 or a course in child development/human development, covering at least birth through adolescence with instructor permission.
Term Typically Offered: Summer only

Overview of the Child Life profession and child life practices. Focus on family-centered care for children in the healthcare environment and their families. Major course topics include: scope of practice in child life; ethical and professional practice; impact of illness, injury and health on patients and family; techniques and outcomes of preparation; therapeutic play; grief and bereavement.
Note: This course is designed to meet the specifications set forth by the Association of Child Life Professionals (ACLP) for the child life course required for certification as a Certified Child Life Specialist (CCLS)

FSHD 159. Adulthood and Aging in Human Development. 3 Units
Term Typically Offered: Fall, Spring

Analyzes the interrelation between physical, psychological, and social development in the middle and later years of adulthood with attention to personal, family and community challenges and opportunities in their cultural context.

FSHD 162. Family Support Services. 3 Units
Prerequisite(s): A minimum of 12 units in FACS and/or FSHD upper division family area courses.
Term Typically Offered: Fall, Spring

Application of family science to the development, implementation, and evaluation of family support services. Implications of research for practice with diverse families. Focus on developing skills in family-centered services, family-professional collaboration, and resource-based and asset-based intervention. Lecture two hours; fieldwork in the community three hours.

FSHD 195F. Practicum in Family Life Education. 1 - 3 Units
Prerequisite(s): senior status; GPA of 2.75 or above; NURS 160 or PSYC 134 or HLSC 134; and FACS 155.
Corequisite(s): If not taken as a prerequisite, FACS 155 may be taken concurrently with instructor's approval.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved educational setting, service agency, business or government agency that provides family life education. Students will move from observing and assisting to developing, delivering and assessing lessons and programs in family life education. Students will gain experience applying educational and developmental theories, curriculum development, and teaching methods to delivering evidence-based and culturally sensitive lessons in the content areas of family life education: parent education, strengthening relationships, and/or sexuality education.
Note: Students must make arrangements with the supervising faculty member one semester prior to admittance to the course.

Credit/No Credit

Fashion Merchandising and Management (FASH)

FASH 30. Fashion and Human Environment. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

This course serves as an introduction to the study of fashion and human environment and how fashion is perceived, marketed, and internalized within individuals across Western and non-Western cultures. A focus on both internal factors such as psychological, aesthetic and self-image, and external factors such as social, economic, cultural and political experiences will be addressed.

FASH 31. Science of Textile. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

Introduction to textile science fundamentals to guide daily textile product selection, use, and care. Overview of physical and chemical properties of textile composition and its impact on textile product performance. Emphasis of textile as a unique medium for studying physical science through an approachable and real-life applicable lens. Discussion of environmental impact of the textile industry as well as scientific innovations in sustainable textile production.
FASH 32.  Fundamentals of Apparel Production.  3 Units
Prerequisite(s): You must be a FACS major or FASH major to enroll in this course.
Term Typically Offered: Fall, Spring

Principles of fit and design. Applied basic construction with emphasis on standards and custom techniques. Characteristics of fabrics used; individual pattern adjustment. Lecture, discussion, demonstration one hour; laboratory four hours.

FASH 33.  Fashion Sustainability, Global Impact, and Critical Thinking.  3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Introduction to critical reasoning, evaluating, and thinking skills through the social, environmental, and economic issues in fashion sustainability. Students will use research, reflection, acquisition of information, structuring arguments, and other critical thinking processes to analyze individual decision making as consumers, and gain an understanding of the greater global impact in fashion sustainability.

FASH 130.  History Of Western Fashion.  3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring, Summer

An overview of dress and fashion in western civilization from antiquity to the present. An interdisciplinary approach is used to examine how western fashion has evolved over time and functions as a reflection of trends in technology, political events, social ideals, and cultural developments such as art and music. Emphasis on the contributions and perspectives of women, as well as the differing roles in the production, dissemination, and consumption of clothing in relation to socioeconomic groups. Lecture, discussion.

FASH 131.  Quality Analysis: Apparel.  3 Units
Prerequisite(s): FACS 31, FACS 32.
Term Typically Offered: Spring only

Analysis of apparel construction and production; current industrial and technological developments. Discussion of sizing and quality standards with emphasis on identification of fabrics, garment styles, finding and trims. Lecture, discussion, demonstration, field trips. Field trip(s) may be required.

FASH 133.  Creative Principles of Apparel Design.  3 Units
Prerequisite(s): FACS 30 and FACS 31
Term Typically Offered: Fall only

Study of the functional and aesthetic elements of apparel design. The creative process and development of illustrative techniques. Development of creative approaches through projects of experimental, contemporary and traditional techniques with emphasis on elements of design, and selection and organization of colors, forms, materials and accessories for apparel production. Studio-activity six hours.

FASH 134.  Introduction to Fashion Industry.  3 Units
Term Typically Offered: Fall, Spring

Designed to develop an awareness and understanding of the total fashion industry including past, present and future directions of costume design, manufacturing, textiles, retailers' publications, buying offices, advertising and the consumer.

FASH 135.  Merchandise Buying.  3 Units
Prerequisite(s): FASH 134.
Term Typically Offered: Fall only

Detailed study of merchandising mix, purchasing plan, inventory plan, assortment plan, pricing, markdown, markup, and reports. Review of planning and control processes and the buyer's role in merchandise management and decision-making. Lecture, discussion.

FASH 136.  Fashion Retailing.  3 Units
Prerequisite(s): FASH 134.
Term Typically Offered: Spring only

A in-depth exploration of fashion retailing from different perspectives, including organizational structure, store location and image with a focus on visual merchandising techniques, and fashion advertising and promotion strategies.

FASH 137.  Clothing, Society, and Culture.  3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Study of the relationship of humans and clothing within their cultural and social environment. Introduction to the fundamentals of social psychology in the examination of clothing and appearance. Clothing and appearance are studied as forms of nonverbal communication and as devices for expressing cultural and social values.

FASH 139.  Textiles and Apparel in the Global Economy.  3 Units
Prerequisite(s): FASH 134 or MKTG 101.
Term Typically Offered: Spring only

Overview of global factors affecting the textiles and apparel industries and trade, the impact of textiles and apparel industries on the economy and consumers, the US textiles and apparel in the global economy, and strategies for balancing conflicting interest.

FASH 146.  Fashion Entrepreneurship.  3 Units
Prerequisite(s): FASH 134.
Term Typically Offered: Fall, Spring

This is a Service Learning course addressing the essentials of entrepreneurship in the fashion industry, enabling students to learn effective entrepreneurial and general management practice through service learning. Emphasis is placed on the essentials of planning that are vital to entrepreneurial success, step by step guide for starting a fashion business and effective business models, which focus on problems, solutions, key metrics and competitive advantages that will assist in pitching the business. Students complete 45 hours of fieldwork.

FASH 148.  Fashion Law.  3 Units
Term Typically Offered: Fall only

This course provides an overview of legal issues affecting the fashion industry and its professionals with an emphasis on fashion entrepreneurship, design, advertising and promotion, production, sourcing, marketing and retailing. Students will also learn about fashion regulatory and policy issues; intellectual property (copyright, trademarks, patents), contractual agreements, leasing, commercial operations and expansion, and the international development of a fashion business.
**Film (FILM)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
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<tbody>
<tr>
<td>FILM 20A</td>
<td>Audio Production</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Cross-listed: COMS 20A.</td>
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<td>Corequisite(s): FILM 20B</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td></td>
<td>Introduction to the theory and practice of audio</td>
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<td>production in radio, television, film and</td>
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<td>recording applications.</td>
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<tr>
<td>FILM 20B</td>
<td>Audio Production Lab.</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Cross-listed: COMS 20B.</td>
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<td>Corequisite(s): FILM 20A</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td></td>
<td>Experience in audio console operation,</td>
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<td>microphone selection and use, and audio</td>
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<td>recording in radio, television, film and</td>
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<td>recording applications.</td>
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<tr>
<td>FILM 27A</td>
<td>Digital Film/Video Production</td>
<td>2</td>
<td>Fall, Spring</td>
<td>Cross-listed: COMS 27A.</td>
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<td>Corequisite(s): FILM 27B</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Introduction to the techniques and aesthetics of</td>
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<td></td>
<td>digital film making. The course covers camera</td>
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<td>technique and cinematography.</td>
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<td>FILM 27B</td>
<td>Digital Film/Video Production Lab</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Cross-listed: COMS 27B.</td>
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<td>Corequisite(s): FILM 27A</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Introduction to the techniques and aesthetics of</td>
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<td>digital film making. The course covers camera</td>
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<td>angles, basic lighting, framing, and non-linear</td>
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<td>editing techniques.</td>
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<td>FILM 97</td>
<td>Introduction to Film Studies</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Cross-listed: ENGL 97.</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td></td>
<td>Examines cinematic techniques, styles, vocabulary,</td>
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<td>and discourses.</td>
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<td>Introduces different ways for writing about films</td>
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<td>and for working with a variety of cinematic</td>
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<td>terms. Film form and style will be studied by</td>
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<td>examining specific scenes in films from different</td>
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<td>genres, nations, and directors. Film used</td>
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<td>throughout the course will be selected from</td>
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<td>different historical periods.</td>
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<td>FILM 98</td>
<td>Introduction to Film Discourse and Analysis</td>
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<td>Fall, Spring</td>
<td>Cross-listed: ENGL 98.</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td></td>
<td>An introduction to cinematic vocabulary, film</td>
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<td>history, and film analysis.</td>
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<td>Through this introduction, students will learn</td>
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<td>how to write about and analyze film. The course</td>
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<td>prepares students for upper division work in film</td>
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<td>studies and cultural analysis. The course includes</td>
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<td>a significant research and/or creative project.</td>
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<td>FILM 105</td>
<td>Film Theory and Criticism.</td>
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<td>Fall, Spring</td>
<td>Cross-listed: ENGL 105.</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Survey of film theory focusing on Auteurism,</td>
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<td>Class, Expressionism, Formalism, Genre,</td>
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<td>Gender, Narratology, Neorealism, Phenomonology,</td>
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<td>Post-Structuralism, Psychoanalysis, Realism,</td>
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<td>Semiology, Structuralism, and Third Cinema.</td>
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<tr>
<td>FILM 121</td>
<td>Media Aesthetics.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Cross-listed: ENGL 1A and ENGL 20.</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td></td>
<td>Overview and analysis of the primary aesthetic</td>
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<td></td>
<td>tools used to create messages in video and film.</td>
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<td></td>
<td>The basic properties of light, color, area,</td>
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<td>space, shape, sound, time and motion are defined</td>
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<td></td>
<td>and discussed as they relate to media production.</td>
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<td></td>
<td>Introduces students to the concepts and</td>
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<td></td>
<td>vocabulary necessary for effectively conceiving,</td>
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<td></td>
<td>producing or criticizing mediated messages.</td>
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<td>Designed primarily for students with interest in</td>
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<td>digital media. Provides a foundation for</td>
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<td>students working in media criticism.</td>
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<td>FILM 124</td>
<td>Writing Scripts for Film/Video.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Cross-listed: ENGL 97 or PHOT 102.</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Developing narratives, documentaries,</td>
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<td>educational, promotional, and experimental short</td>
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<td>screenplays. Students are expected to develop a</td>
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<td>writing style and master screenwriting and audio/</td>
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<td>visual scripting formats. Scripts will be</td>
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<td></td>
<td>developed to be produced in advanced production</td>
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<td></td>
<td>courses: COMS/FILM 128 and COMS/FILM 185.</td>
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<td>FILM 124F</td>
<td>Avant-Garde Film.</td>
<td>3</td>
<td>Spring only</td>
<td>Cross-listed: INTD 124F.</td>
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<td>Term Typically Offered:</td>
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<td></td>
<td>A survey of experimental films from the</td>
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<td>beginning of the cinema in the 1890s through</td>
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<td>today’s avant garde. The course will emphasise</td>
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<td>film making as a means of personal, artistic</td>
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<td>expression and will pay particular attention to</td>
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<td>those aspects of cinema that are typically</td>
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<td>ignored or marginalized in mainstream Hollywood</td>
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<td>movies. Films we will study include those by:</td>
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<td>Melies, Porter, Richter, Leger, Cornell,</td>
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<td></td>
<td>Deren, Brakhage and Gehr.</td>
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<td>FILM 128</td>
<td>Intermediate Production.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>FILM/COMS 20AB with a grade of &quot;C&quot; or better.</td>
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<td>Term Typically Offered:</td>
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<td></td>
<td>Continued exploration of the digital filmmaking</td>
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<td>process through lecture, lab, and practical</td>
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<td>application. Project-based learning emphasizes</td>
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<td>working as a crew and the three distinct stages</td>
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<td>of production: prep, production, and post.</td>
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<td>Students write, produce, direct and edit original</td>
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<td>content to bring projects to fruition.</td>
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<td>FILM 129</td>
<td>Film and Video Production Management.</td>
<td>3</td>
<td>Spring only</td>
<td>Cross-listed: ENGL 97 or PHOT 102.</td>
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<td>Term Typically Offered:</td>
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<td>Management and administration of the preproduction</td>
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<td>and production process. Course to include</td>
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<td>script breakdown, budgeting, scheduling, and</td>
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<td>other preproduction and production management</td>
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<td>skills needed for film and video production.</td>
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<td>Special attention on the history, development</td>
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<td>and current practices of the Production Manager.</td>
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<td>Cross-listed: COMS 129.</td>
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Prior to taking the real estate salesperson's examination.

Note: This course is required by the California Department of Real Estate prior to taking the real estate salesperson's examination.

FIN 130. Staging and Lighting Digital Video. 3 Units
Prerequisite(s): FILM 20A, FILM 20B, FILM 27A and FILM 27B each with a grade of "B" or better.
Term Typically Offered: Fall, Spring

Introduction to the aesthetics, concepts and techniques used to control lighting in digital video productions. Aspects of staging, blocking and composition in the context of studio and location lighting.

Cross-listed: COMS 130.

FIN 141. Theory of Film/Video Editing. 3 Units
Prerequisite(s): COMS/FILM 27A and COMS/FILM 27B with final posted grade of C or better.
Term Typically Offered: Fall, Spring

Study of history and theory of film and video editing. Many films are viewed and discussed, examining how editing theory is put into practice.

Cross-listed: COMS 141.

FIN 155. Contemporary World Cinema. 3 Units
Term Typically Offered: Fall, Spring

A historical review of the development of major international film styles and themes. Theoretical and critical concepts derived from this study of international film and then used as the basis to analyze contemporary films of South America, Europe, India, East Asia, Africa and the Middle East. Emphasis is on both the development of formal film techniques and a comparison of the unique cultural values that shape the film narrative style.

Cross Listed: THEA 155; only one may be counted for credit.

FIN 185. Senior Practicum in Video Production. 3 Units
Prerequisite(s): COMS/FILM 124 with a final posted grade of C or better; COMS/FILM 128 with a final posted grade of C or better.
Term Typically Offered: Fall, Spring

Assignments in various phases of video production including creative use of camera, sound and lighting, editing, production design, production planning/management, and directing.

Cross-listed: COMS 185.

FIN 192. Senior Seminar in Film. 3 Units
Prerequisite(s): Completion of the Film Studies upper and lower division core or COMS 142, and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Spring only

Research seminar that provides an in-depth investigation of film as an art form, a medium of mass communication and a means of personal expression. Subject will vary according to instructor.

Cross-listed: COMS 192.

Finance (FIN)

FIN 19. Real Estate Principles. 3 Units
Term Typically Offered: Fall, Spring

Examination of real estate principles and practices necessary for the acquisition, financing, management, and disposition of real estate.

Note: This course is required by the California Department of Real Estate prior to taking the real estate salesperson's examination.

FIN 101. Business Finance. 3 Units
Term Typically Offered: Fall, Spring

Study of principles of finance and their application to typical financial problems of business enterprises. Special emphasis on financial analysis, management of working capital, cost of capital, capital budgeting, long-term financing, dividend policy, and internal financing.

FIN 134. Financial Management. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Trends in the development of financial policy are analyzed and reports on specific aspects are presented in class. The student is placed in the position of the financial manager who must make decisions and implement them.

FIN 135. Investments. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Significant characteristics of numerous types of investments; securities markets and financial institutions; principles of investment analysis; investment management.

FIN 136. Modern Portfolio Management. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Asset management utilizing the major aspects of modern portfolio theory, portfolio construction and selection, portfolio performance evaluation, capital asset pricing models, and recent theoretical developments in asset pricing behavior.

FIN 137. Financial Institutions and Markets. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Designed to broaden understanding of the financial system to include the network of institutions which bring into existence the increasingly important substitutes for money in the traditional sense. Emphasis is given to flow of funds analysis within the context of emerging financial theories.

FIN 138. Principles of Risk Management and Insurance. 3 Units
Prerequisite(s): Must be a business major (any concentration) or Public Health major (Occupational Health & Safety concentration) or Real Estate & Land Use Affairs minor or a Risk Mgmt & Insurance minor.
Term Typically Offered: Fall, Spring

Study of the concept of pure risk and its implications for decision making. Provides business students the basics of risk theory and its application to risk management or insurance purchasing using a personal consumer's viewpoint. Practical personalized examples and cases will be used to illustrate risk decision making, primarily on a personal basis, but also in selected business decisions. Topics include risk theory and applications, life insurance, medical coverage, property insurance, and liability insurance.
FIN 139. Business Property and Liability Insurance. 3 Units
Prerequisite(s): FIN 138 or instructor permission.
Term Typically Offered: Fall, Spring

Concentrated and analytical approach to the study of property and liability loss exposures for the business enterprise. While the emphasis is on the different types of business insurance coverage's, a risk management approach and examples are used. Topics include business property insurances; liability, especially workers compensation, the SMP and CGL contracts; business auto, crime coverage's; bonds; transportation insurance; consequential coverage's; and capacity and other related marketplace problems. Case studies and problems, as well as a computer analysis are used. The course is an excellent supplement for insurance, finance, real estate and pre-law majors, small business owners, and anyone who will be making business financial decisions, or providing insurance products in the insurance industry. Successfully completing FIN 138 and 139 substitutes for the one-year experience requirement for those interested in taking the Insurance Broker’s Licensing Exam.

FIN 140. Employee Benefits. 3 Units
Prerequisite(s): FIN 138 or instructor permission.
Term Typically Offered: Fall, Spring

Intensive and analytical examination of the employee benefit planning environment and its risk exposures. Using a risk management approach, the topical areas studied include mandatory programs, especially OASDHI and ERISA; health care; group life and disability; retirement income and capital accumulation plans; paid time off; family-centered benefits; flexible benefits and cafeteria plans; and benefit cost information. Case studies and extensive contact with the business community as well as team projects are required. This is an important class for specialists in human resources management, especially personnel, pre-law, and health care or those who will be providing insurance products to fulfill employment benefit needs.

FIN 141. Managerial Real Estate Law. 3 Units
Prerequisite(s): FIN 19
Term Typically Offered: Fall, Spring

Examination of the decision making process in land utilization transactions relative to the minimization of risks of legal confrontation. Traditional conflicts underlying real estate transactions are examined and principles of preventive law are derived. The management of litigation and transaction attorneys is considered. Court remedies that are pertinent to land utilization transactions are analyzed and compared to nonjudicial alternatives.

FIN 142. Real Estate Finance. 3 Units
Prerequisite(s): FIN 19 or ACCY 121 or FIN 101 or ENGR 140; Buisness Majors only
Term Typically Offered: Fall, Spring

Examination of the mechanisms of real estate finance, sources of funds, loan contracts, principles of mortgage risk analysis, and the role of group equity investment. The evolution of secondary mortgage markets, government policy, and market interference will be investigated from a risk management standpoint.

FIN 143. Real Estate Investment. 3 Units
Prerequisite(s): FIN 19 or ACCY 121 or FIN 101 or ENGR 140; business majors only
Term Typically Offered: Fall, Spring

Analyzes non-financial and financial factors influencing investment decision making in income producing property. Topics include: location and its linkages; methods of estimating demand for real estate; methods for evaluating competing supply; use of market analysis in decision making; development of cash flow statements, alternative investment criteria, risk, legal, financing, and tax analysis, operating, financing investment and reversion decisions.

FIN 144. Real Estate Market Analysis. 3 Units
Prerequisite(s): FIN 19 or FIN 101; must be Business Major (any concentration) or Real Estate and Land Use Minor.
Term Typically Offered: Fall, Spring

Introduction to real estate markets, economic analysis of property markets, and impact of local governments on real estate markets. Topics include space and asset markets; location, land use and competitive bidding; land markets, housing markets, and site selection; economic growth and real estate markets, office, retail, and industrial markets; impact of local governments on real estate markets; tools of market analysis, computer applications and geographic information systems.

FIN 145. Real Estate Development and Land Use. 3 Units
Prerequisite(s): FIN 19 or FIN 101; must be Business Major (any concentration) or Real Estate and Land Use Minor.
Term Typically Offered: Fall, Spring

Process of real estate development and the federal and state laws that regulate development. Topics may include creating industrial real estate, office space, shopping centers, and hotel/recreation facilities, strategy, market and feasibility analysis; site planning/design; capital cost analysis; construction; financial structuring; federal and state laws that regulate environment impact; land use and real estate development. Emphasis on case studies and a project analysis.

FIN 149. Real Estate Analytics. 3 Units
Prerequisite(s): FIN 19 or FIN 101; must be Business Major (any concentration) or Real Estate and Land Use Minor.
Term Typically Offered: Fall, Spring

Examines contemporary and emerging issues in real estate trends, space and asset market equilibrium, land use controls and regulation, market analysis, mortgage markets, property markets, real estate cycles, real estate development, real estate finance and investments, real estate securities, and/or real estate taxation. Use of computer software and applications are emphasized to understand real estate analytics and geographic information systems applications to real estate data.

FIN 150. Capstone in Professional Financial Planning. 3 Units
Prerequisite(s): ACCY 171, FIN 135, FIN 136, FIN 138 and FIN 140; FIN 136 and/or FIN 140 may be taken concurrently.
Term Typically Offered: Spring only

This course will engage the student in critical thinking and decision-making about personal financial management topics in the context of the financial planning process. The purpose of this course is to refine and develop skills needed for personal financial planners when working with individuals, families, and business owners in meeting financial needs and objectives.
FIN 160. Student Investment Fund Management. 3 Units
Prerequisite(s): FIN 134, FIN 135, or FIN 136 with a final posted grade of B- or higher or FIN 101 with a final posted grade of A- or higher; must be in Bachelor of Science in Business Administration major or minor.
Term Typically Offered: Fall, Spring

Students will manage a real investment portfolio by applying theories of investment analysis and portfolio management. Topics include economic analysis, valuation theories, risk measurement and management, performance measurement, and benchmarking.

FIN 190. Multinational Business Finance. 3 Units
Prerequisite(s): FIN 101 or instructor permission. Prior additional course in finance or international business recommended but not required.
Term Typically Offered: Fall, Spring

Principles of international financial management. Issues covered include the international environment of financial management, uses of foreign exchange spot, forward, futures, options, and swap markets, foreign exchange risk management, international investment and financing decisions.

FIN 194. Cooperative Education Experiences in Real Estate. 6 - 12 Units
Prerequisite(s): FIN 19, FIN 142 and a minimum overall GPA of 2.5; Business major only.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in Real Estate and Land Use Affairs. This supervised work experience allows the student to become familiar with the practices of the real estate industry and/or governmental agencies.
Note: Open to all upper division students subject to permission. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

FIN 195. Internship In Finance. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Finance Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only.
Credit/No Credit

FIN 195A. Internship in Real Estate and Land Use Affairs. 3 - 6 Units
Prerequisite(s): FIN 19 and FIN 142. Minimum Sacramento State GPA of 2.5 required; open to declared business administration majors only.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

FIN 196A. Exper Offer Finance. 3 Units
Prerequisite(s): FIN 135 with a final posted grade of B- or higher and instructor's consent.
Term Typically Offered: Fall, Spring

Students will manage a real investment portfolio by applying theories of investment analysis and portfolio management. Topics include economic analysis, valuation theories, risk measurement and management, performance measurement, and benchmarking.

FIN 199. Special Problems in Finance. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Credit/No Credit

FIN 200. Financial Reporting and Analysis. 3 Units
Term Typically Offered: Fall, Spring

Designed for business students with prior knowledge of accounting who intend to use corporate financial statements intensively in valuation, credit or equity analysis, or strategic competitor analysis. Topics include inventory, pensions, business combination, income tax and other current issues for their impacts on financial statement. Emphasis on financial statement analysis and interpretation of financial disclosures for improving risk assessment, forecasting, and decision-making.

FIN 210. Financial Institution Management. 3 Units
Term Typically Offered: Fall, Spring

Develop an understanding of the theory and practice of the management of financial institutions. Emphasis is placed on risk measurement and management. Financial institutions include commercial banks, investment banks, savings banks, credit unions insurance companies and financial companies such as mutual funds.

FIN 220. Corporate Finance. 3 Units
Term Typically Offered: Fall, Spring

Investigate the principles that corporations use in their investing, financing, and day-to-day management decisions. Topics include financial statement analysis, capital investment decision, capital structure, dividend policy, mergers and acquisitions, corporate governance and its impact on valuation.

FIN 230. Equity Analyses. 3 Units
Term Typically Offered: Fall, Spring

Covers advanced concepts and techniques essential to asset valuation. Key topics include, but not limited to, free cash flow, price multiples, asset-based and contingent claim valuations. Applications of various valuation techniques are emphasized. Provides a framework for selecting the most appropriate model for specific circumstances.

FIN 240. Fixed Income. 3 Units
Term Typically Offered: Fall, Spring

Discuss a wide range of fixed income products. Topics include trading concepts and mechanics, pricing, duration, convexity, term structure of interest rates, and options embedded fixed income securities.
FIN 250. Derivatives. 3 Units
Term Typically Offered: Fall, Spring

Discuss major types of financial derivatives and derivative markets. Topics include forward contracts, futures, options, SWAPs and credit derivatives. Emphasis on characteristics, trading process, pricing, parity conditions, risk involved, and investment strategies for different financial derivatives.

FIN 260. Alternative Investments. 3 Units
Term Typically Offered: Fall, Spring

Discuss major types of alternative investments including real estate, hedge funds, commodities, private equity, and venture capital. Emphasis on the technical aspects and the performance analyses of alternative investments, their advantages and disadvantages, role of alternative investments, and strategies of selection.

FIN 270. Portfolio Management. 3 Units
Term Typically Offered: Fall, Spring

Cover topics of asset management utilizing the major aspects of Markowitz portfolio theory, Capital ASSET Pricing Model, and Arbitrage Pricing theory. Discuss the comprehensive approach, starting with portfolio construction and asset selection, following with portfolio performance evaluation, and concluding with rebalancing strategies. Introduce and utilize worksheet modeling techniques which are useful for portfolio management.

FIN 280. Global Financial Markets. 3 Units
Term Typically Offered: Fall, Spring

Cover advanced concepts and applied techniques essential to understand the mechanism of the global financial markets. Key topics include global capital allocation, international tax management, foreign exchange markets, derivatives, parity relationships, and others. Focuses on the core concepts and techniques are applied in the global financial markets using different case studies. Integrate the key principles of finance and extends them to a multinational setting. Topics follow the Chartered Financial Analyst (CFA) Level 1 and 2 Exam on equity valuation.

FIN 299. Special Problems in Finance. 3 Units
Prerequisite(s): Classified graduate status or instructor approval
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Enrollment requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs; 6 units maximum; May be repeated for credit.

FIN 500. Culminating Experience Project in Finance and Ethics. 3 Units
Prerequisite(s): Advancement to candidacy; 12 units of any combination of the following courses: FIN 200, FIN 210, FIN 220, FIN 230, FIN 240, FIN 250, FIN 260, FIN 270 and FIN 280.
Term Typically Offered: Fall, Spring

Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MS in Finance program as required in Title V of the CA Educational Code. The course also covers the ethical conducts and professional standards as outlined in CFA institute standards.
Note: May be repeated for credit

French (FREN)

FREN 1A. Elementary French. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the development of elementary linguistic skills, with emphasis on the spoken language. The relationship of the language to French civilization and culture is given special attention.

FREN 1B. Elementary French. 4 Units
Prerequisite(s): FREN 1A and a suitable score on placement exam; or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring

Continuation of FREN 1A, with emphasis on reading, writing, listening and speaking. French culture and its relationship to language is given continued attention.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 2A. Intermediate French. 4 Units
Prerequisite(s): One year of college French, suitable score on placement exam; or instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Emphasis on speaking, reading and writing ability. Dialogues, discussions and compositions in French.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 2B. Intermediate French. 4 Units
Prerequisite(s): FREN 2A, suitable score on the placement exam; or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of FREN 2A.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 100. Phonetics and Pronunciation. 3 Units
Prerequisite(s): Four semesters of French or equivalent.
Term Typically Offered: Fall, Spring

Review and practice all the main phonetic features of the spoken French language. Complete familiarization with the international phonetic alphabet. Practice in written transcription and oral pronunciation of all vowel and consonant sounds in French. Review and practice characteristics of diction, articulation, intonation, the musical movement of the sentence and rhythm. Orthographic problems and the phenomena of spelling and pronunciation are integrated with all written and oral exercises. Elimination of specific pronunciation problems for English speakers (r/l, mute, e, nasals, final consonants, etc.).

FREN 101. Advanced Grammar. 3 Units
Prerequisite(s): FREN 2B or equivalent.
Term Typically Offered: Fall, Spring


Classified graduate status or instructor approval
Four semesters of French or equivalent.
Four semesters of French or equivalent.
FREN 102. Advanced Conversation. 3 Units
Prerequisite(s): Four semesters of French or equivalent.
Term Typically Offered: Fall, Spring
Mastery of spoken French language through discussion of personal
readings to develop vocabulary and syntactical skills. Conducted in
French. May be taken for credit twice.

FREN 103. Advanced Composition. 3 Units
Prerequisite(s): FREN 101 or instructor permission.
Term Typically Offered: Fall, Spring
Special attention to help students learn the dynamics of good writing,
become sensitive to style and develop ability to express their thoughts
coherently, in essentially correct and well structured French prose.
Conducted in French.

FREN 104A. French Translation (French-English). 3 Units
Prerequisite(s): Upper division status in French.
Term Typically Offered: Fall, Spring
Development of translating techniques applicable to texts in areas such
as literature, sciences, journalism, history, art. Review and comparative
study of French and English grammars and styles. Conducted in French.

FREN 104B. French Translation (English-French). 3 Units
Prerequisite(s): FREN 101 and upper division status in French.
Term Typically Offered: Fall, Spring
Development of translating techniques from English to French applicable
to texts in such areas as business, culture and/or literature. Continued
comparative study of French and English grammars and styles. Conducted in French.

FREN 107. Business French. 3 Units
Prerequisite(s): Second year college level proficiency or equivalent; or
instructor permission.
Term Typically Offered: Fall, Spring
Designed to create awareness of linguistic and crosscultural differences
affecting effective communication between American and Francophone
speakers in the world of business, and to provide added confidence in
transactions and negotiations. Explores how to do business in
France, how different business structures work and interact, and how
to participate in everyday business activities. Particularly helpful
to International Business Students to enhance understanding of
Francophone and European markets and to develop business oriented
French language skills. Prepares student to obtain two different Business
French Certificates offered by the Chamber of Commerce and Industries
of Paris and the French Ministry of Education. Conducted in French.

FREN 109. French Language Practice. 3 Units
Prerequisite(s): FREN 2B.
Term Typically Offered: Fall, Spring
Practice with French conversation, reading, and vocabulary development;
supervised individual and small-group instruction designed to develop
French vocabulary, including the conversation, listening and reading skills
necessary for advanced study in French. May be taken for credit three
times.

FREN 110. Survey of French Literature. 3 Units
Prerequisite(s): FREN 101, FREN 103, FREN 109 or instructor permission.
Term Typically Offered: Fall, Spring
An introduction to French literature through texts of varied length from
different time periods and genres with a focus on the use of language.
Conducted in French.

FREN 111. Topics in Francophone Literature. 3 Units
Prerequisite(s): FREN 110, or equivalent; or instructor permission.
Term Typically Offered: Fall, Spring
Study of literary texts by Francophone writers with an emphasis placed
on textual analysis and the relationship between text and context.
Conducted in French.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 120. French Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Presentation of formative cultural achievements of the French world
from its origins to the present, i.e., the origin of the French language.
Contributions to European Renaissance, Baroque and Classicism, the
Revolutionary and Romantic eras, and modern western culture.
Note: Open to non-majors. Course taught in English.

FREN 125. Quebec and French North America. 3 Units
Term Typically Offered: Fall, Spring
Development and significance of francophone culture in North America,
notably Quebec, French Canada and Louisiana, are explored through
historical events, social changes and artistic achievements. Introduces
major cultural trends and traditions from the 17th century to the present
through non-fiction, literary works and audio-visual presentations in art
and music. French majors and minors are required to do all reading,
research and papers in French.
Note: Upper division status required.

FREN 130. Culture Wars: From Knighthood to Revolution. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or
at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring
Study of the profound influence of culture wars through the interpretation
of major French writers, philosophers and scientists ranging from the
Middle Ages to the 18th century. All readings and lectures in English.
Note: Open to non-majors.

FREN 170. Seminar Conducted in French. 3 Units
Prerequisite(s): FREN 110.
Term Typically Offered: Fall, Spring
Seminar in French will be offered as needed.
FREN 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in French and instructor permission.
Term Typically Offered: Fall, Spring
Directed fieldwork in a project which uses language skills developed through previous study of French. Projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. May be taken more than once for credit. Does not apply to major.
Credit/No Credit

FREN 195. Fieldwork - Tutoring. 1 - 3 Units
Prerequisite(s): Native or near-native fluency in French, upper division status; or instructor permission.
Term Typically Offered: Fall, Spring
Tutoring of lower division French students under supervision of an instructor. Three hours of tutoring per week for each unit. Does not apply to major.
Credit/No Credit

FREN 196. Experimental Offerings in French. 3 Units
Term Typically Offered: Fall, Spring
Special courses will be scheduled as needed.

FREN 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading.
Note: Departmental petition required.
Credit/No Credit

FREN 210. Studies in French Literature. 3 Units
Term Typically Offered: Fall, Spring
Studies of authors, periods, movements, genres, criticism or literary history.
Note: May be repeated for credit if subject matter is not repeated.

FREN 220. Studies in French Civilization. 3 Units
Term Typically Offered: Fall, Spring
Studies in French language and linguistics problems, e.g., history of the language, semiotics, stylistics, translating, interpreting and oral expression.
Note: May be repeated for credit three times if subject matter is not repeated.

FREN 230. Studies in the French Language. 3 Units
Term Typically Offered: Fall, Spring
Studies in French language and linguistics problems, e.g., history of the language, semiotics, stylistics, translating, interpreting and oral expression.
Note: May be repeated for credit if subject matter is not repeated.

FREN 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading.
Note: Departmental petition required.
Credit/No Credit

FREN 500. Culminating Experience. 1 - 4 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate advisor.
Term Typically Offered: Fall, Spring
Completion of a thesis, project or comprehensive examination.

General Management (GM)

GM 105. Strategic Management. 3 Units
Prerequisite(s): Completion of all other upper-division core courses, except MIS 101.
Term Typically Offered: Fall, Spring, Summer
This capstone course focuses on the integration of functional areas of a business and requires students to determine strategies/policies at the general-management level. Students address problems and issues faced by companies from a general management perspective which integrates accounting, financial, marketing, human resources, and operations in relation to the environment within a framework of balance between profit or cost-effectiveness and social responsibility.

GM 170. Fundamentals of Business Strategy. 3 Units
Prerequisite(s): HRM 101, MKTG 101, FIN 101, and OPM 101.
Term Typically Offered: Fall, Spring
Basics of business-level strategy and how they are applied in modern organizations. Underlying primary principles, theories and practices are examined and discussed. Cases presenting actual, real-world situations will be analyzed to derive solutions to the business-level opportunities and problems facing strategic managers.
Note: General Management students must complete all functional core courses before taking GM 170.

GM 194. Cooperative Education Experience in Management. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.5.
Term Typically Offered: Fall, Spring
In-depth supervised work experience in management for the purpose of exposing the student to comprehensive management experience in business, governmental, or service agencies.
Note: Open to all upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit
GM 195. Internship in Strategic Management. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.

Note: Open to upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only.

Credit/No Credit

GM 199. Special Problems in Strategic Management. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.

Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

General Studies (GNST)

GNST 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

A first-year seminar intended to provide students with an introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. This course is designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. The seminar also provides students with the opportunity to interact with fellow students, and seminar faculty to build a community of academic and personal support.

GNST 296. University 200. 1 Unit
Prerequisite(s): Graduate Standing
Term Typically Offered: Fall, Spring

A University 200 seminar is intended to provide students with an introduction to the meaning of graduate education, resources of the University, techniques for developing a sound scholarly argument, and the use of evidence and resources to conduct and present academic research at the graduate and professional level, and skills for lifelong learning. This course is designed to help students develop academic success strategies, increase information literacy skills and abilities, and to improve intercultural and inclusive awareness, and integrative thinking.

Credit/No Credit

Geography (GEOG)

GEOG 1. Physical Geography: The Distribution of Natural Phenomena. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

This course provides an overview of Earth’s physical systems, including the atmosphere, biosphere, hydrosphere, and lithosphere. Topics covered include weather and climate, biological systems, plate tectonics, volcanoes and earthquakes, and weathering and erosion. Emphasis is placed on the role of humans in influencing Earth’s physical systems.

GEOG 2. Cultural Geography. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Consideration of the diversity of patterns of land use, settlement and movement established and evolved by humans as a result of the interaction of cultural and physical factors; emphasis on student use of maps and other tools of geographic presentation for analyzing the nature, variation and distribution of cultural features of the earth’s surface.

GEOG 2H. Cultural Geography - Honors. 3 Units
Prerequisite(s): Open to Honors students only.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Consideration of the diversity of patterns of land use, settlement and movement established and evolved by humans as a result of the interaction of cultural and physical factors; emphasis on student use of maps and other tools of geographic presentation for analyzing the nature, variation and distribution of cultural features of the earth’s surface.

Note: This is a special offering designed as part of the G.E. Honors program.

GEOG 3. Introduction to Maps and Geographic Technologies. 3 Units
Term Typically Offered: Spring only

Introduction to maps, map concepts, and geographic technologies. Maps are the most effective way to communicate spatial data, and introduces students to the quickly changing world of maps (both hard-copy and digital) and geographic technologies including map and aerial photograph interpretation, spreadsheet operations, introductory statistics, global positioning systems (GPS), Internet mapping, satellite and aerial images, and geographic information systems (GIS) that aid in data collection, analysis, and presentation. Lecture two hours; laboratory two hours.

GEOG 5. Violent Weather/Changing Atmosphere. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Introduction to meteorological and climatological principles and concepts. These principles will be used to examine severe atmospheric phenomena, including hurricanes, tornadoes, thunderstorms, lightning, destructive winds, severe storms, heat waves, droughts and floods, particularly in relation to human-caused climate change and the effects of these phenomena on humanity.
GEOG 11. Laboratory in Physical Geography. 1 Unit
Prerequisite(s): GEOG 1; may be taken concurrently.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring, Summer

Makes the ideas and relationships of introductory physical geography more clear by observation and experiment. Use is made of maps, globes, models, meteorological instruments and records, satellite photos and observations of the local scene. Laboratory, three hours.

GEOG 100. Themes In World Geography. 3 Units
Prerequisite(s): Junior or Senior class standing or instructor permission.
Term Typically Offered: Fall, Spring

Study of the content of geography with a consideration of basic concepts and methods. Emphasis is on patterns and relationships of the elements and manifestations of physical and cultural geography, including both topical and regional discussions.

GEOG 105. Cartography. 3 Units
Term Typically Offered: Spring only

Introduction to principles map design for the digital era. Use of illustration software for the production of printed and electronic maps, and other visualizations of spatial information. Theory and history of cartography, including color theory, map projections, visual variables and cartographic scale. Lecture two hours; laboratory three hours.

GEOG 107. Remote Sensing. 3 Units
Term Typically Offered: Spring only

Aerial photographs and scanned satellite images, emphasis on the former. Topics include the electromagnetic spectrum, cameras, films, image geometry as related to planimetric and topographic mapping, multispectral techniques, and interpretation of imagery, emphasizing land use and landforms. Lecture two hours; laboratory three hours.

GEOG 109. Geographic Information Systems. 3 Units
Term Typically Offered: Fall, Spring, Summer

Introduction to GIS, including history and overview of current applications; the nature of spatial data; geographic data structures, acquisition, analysis, and display of geographic data. Lab exercises use various computers and include both raster- and vector-based GIS systems. Lecture two hours; laboratory three hours.

GEOG 110. Advanced Geographic Information Systems. 3 Units
Prerequisite(s): GEOG 109 or instructor permission.
Term Typically Offered: Fall only

Builds on the introduction to the hardware, software and operations of GIS offered with the previous courses, providing the essentials required by a beginning GIS analyst or applications support specialist. Emphasis will be placed on problem solving strategies in the context of GIS projects.

GEOG 111. Elements Of Meteorology. 3 Units
Prerequisite(s): GEOG 1 or instructor permission.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Basic concepts of weather and weather elements: structure and general circulation of the atmosphere, earth's heat and water balance, precipitation, air masses and fronts, air pollution meteorology. Some micrometeorological concepts with application to air pollution, agriculture, and similar problems.

GEOG 113. Climate. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only

Study of the distribution of heat and moisture over the earth's surface. Basic processes by which heat and moisture acquire unequal distributions in space and time. Classification of climate. Climatic change. Climate models.

GEOG 115. Biogeography. 3 Units
Prerequisite(s): GEOG 1 or instructor permission
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only

Introduction to the geographic distribution of life. Communities and biomes, changing continents and climates, dispersal, colonization, extinction, life on islands, and past and present human impacts are examined.

Note: Field trip required.
Field trip(s) may be required.

GEOG 116. Global Climate Change. 3 Units
Prerequisite(s): GEOG 1 or instructor permission
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Spring only

Study of past climate change and the techniques with which they are reconstructed. Focus on the various temporal scales at which climate change operates. Spatial variability of past, present and future climate changes. Anthropogenic climate change in the context of natural climate variability.

GEOG 117. Landforms. 3 Units
Prerequisite(s): GEOG 1 or instructor permission.
Term Typically Offered: Fall only

Study of the surface forms of the land with particular attention to their distribution and to the accompanying distribution of natural forces and processes which have brought the landforms into being. Study of landforms in the context of Quaternary environmental change. Identification and analysis of landforms using maps and other spatial data. Lecture three hours.
GEOG 118. Earth Transformed. 3 Units
Term Typically Offered: Fall, Spring

Explores the evolving human role in transforming Earth’s physical environments. Topics range from prehistoric extinctions to modern environmental problems in select regions. Emphasis is placed on wide-ranging effects of resource use and disposal, with particular reference to atmosphere and biological problems and sustainable solutions.

GEOG 119. Visualizing Global Environments. 3 Units
Term Typically Offered: Fall, Spring

General Education Area/Graduation Requirement: Further Studies in Area B (B5)

Using current geospatial technologies, such as remote sensing and GIS, the course provides an introduction to the distributions of climate, plant cover, soils, and landforms over the face of the earth. While examining processes and conditions that cause these distributions, students will also explore the methods and techniques that let us visualize these distributions, and use maps as communicative devices in our explorations of these topics.

GEOG 121. United States and Canada. 3 Units
Term Typically Offered: Fall, Spring

Present distribution and historical development of population, land use and industry in the U.S. and Canada in relation to regional variations in the physical environment and cultural heritage.

GEOG 125. Geography Of East Asia. 3 Units
Term Typically Offered: Fall, Spring

Geographic setting and nature of Far Eastern civilization; origins, development and present outlines of settlement; cultures, resource use, economic structures, population, levels of technological achievement, and land use in China, Japan and Korea.

GEOG 127. Geography Of Africa. 3 Units
Term Typically Offered: Spring only – odd years

Emphasis is on sub-Saharan Africa with consideration given to selected topics such as population problems, industrialization, regional groupings, transportation, and internal and external relationships.

GEOG 128. Geography Of Europe. 3 Units
Term Typically Offered: Spring only – even years

Survey of Europe with emphasis on its physical environment, contemporary demographic, economic, and ethnic patterns, and the changing political landscape. Consideration will also be given to Europe’s historic and present-day links with other world regions, and to the geographic basis for many of the social, political, economic, and environmental challenges facing contemporary Europe.

GEOG 129A. Special Topics in Regional Geography A. 3 Units
Term Typically Offered: Fall only

Geographic survey of a selected region with emphasis on its physical environment and selected economic, demographic, political, and cultural patterns. Consideration may include its connection to other world regions and its role in current events. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129B and GEOG 129C may be taken for up to 9 units.

GEOG 129B. Special Topics in Regional Geography B. 3 Units
Term Typically Offered: Fall, Spring

Geographic survey of a selected region with emphasis on its physical and human geography. Topics may include climate, landforms, vegetation, economics, demographics, culture, and the region’s connection to other world regions and its role in current events. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129A and GEOG 129C may be taken for up to 9 units.

GEOG 129C. Special Topics in Regional Geography C. 3 Units
Term Typically Offered: Fall, Spring

A selected world region is the focus of this course that geographically surveys the region’s physical and human environment. Potential topics include climate, landforms, vegetation, economics, demographics, culture, and more. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129A and GEOG 129B may be taken for up to 9 units.

GEOG 131. California. 3 Units
Term Typically Offered: Fall only

Study of landforms, climate, vegetation, population distribution and change, industry, transportation, water, energy, and agriculture in California.

GEOG 133. Geography of the Middle East. 3 Units
Term Typically Offered: Fall only

This course will help students to develop a nuanced understanding of the complexity and diversity of the Middle East. Focusing on the human geography of the Middle East, we will examine the politics and cultures of the region. Particular focus will be on post-World War I geopolitics, when contemporary nation-states came to existence and several different conflicts evolved.

GEOG 141. Geography of Economic Activity. 3 Units
Term Typically Offered: Fall only – even years

Spatial organization of man’s activities related to production, exchange and consumption. Attention is given to resource development and the areal variations of factors affecting it, to concepts of spatial interaction and to spatial aspects of agricultural, industrial and urban land use. An examination of problems related to regional economic development. Changing perceptions of spatial organization of economic activities is also considered. Emphasis is on both theoretical framework and case study applications.

GEOG 142. Feminist Geography. 3 Units
Term Typically Offered: Fall, Spring

Feminist geography has long aimed to unbind geography, asking challenging questions about who geographers are, and what counts as geographic theory and practice, which spaces geographers study, and whose spaces inform theory. In this course we bring the feminist project into the classroom by exploring the work of feminist geographers who seek to challenge the embedded whiteness in our field. We also aim to incorporate the decolonial practices to transform the geographic scholarship in an international and multi-disciplinary context.

GEOG 143. Environmental Hazards and Society. 3 Units
Term Typically Offered: Spring only – odd years

Focuses on how a place’s social systems and physical systems intersect to create hazards. Considers the development of various theoretical approaches to hazards; risk perception and societal responses to hazard events; the history of U.S. disaster response; and approaches to risk/vulnerability assessment.
GEOG 141. Programming for GIS.
3 Units
This course is an introduction to programming and scripting for intermediate GIS users, using an object-oriented programming approach. You will develop well-documented and structured geoprocessing programs using the Python programming language and ArcPy, a site package (library) for ArcGIS geoprocessing tools.

GEOG 142. Advanced Programming for GIS.
3 Units
This is an advanced course in programming and scripting for intermediate to advanced GIS users, using an object-oriented programming approach. You will develop well-documented and structured geoprocessing programs for data management, processing, and automation in the Python programming language, leveraging libraries such as ArcPy and GDAL.

GEOG 143. GIS Data Acquisition and Management.
3 Units
This course focuses on acquisition and management of geospatial datasets and addresses the interpretation of a variety of data formats available in global information systems (GIS). It explores concepts of geospatial data management strategies, primary GIS data creation, secondary data acquisitions, and leveraging leading-edge geospatial data deployments.

GEOG 144. Transforming the City.
3 Units
Examination of dynamic urban social, spatial, and political forces related to housing, gentrification, and public space. Attention is given to the roles of class, race, gender, and ethnicity in shaping the spaces and processes of urban transformation in cities across the world. Guest speakers, written assignments, and discussions complement weekly lectures.

GEOG 145. Population Geography.
3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only
Spatial patterns of population numbers and characteristics; migration and spread of ideas; potential for economic and cultural developments.

GEOG 146. Urban Geography.
3 Units
Term Typically Offered: Spring only – odd years
Consideration of cities as centers of human activity from the rise of urban life in the Old and New Worlds to the present day patterns of metropolis and megalopolis. The functions and interactions of cities in Earth’s limited space and on Earth’s limited resources are studied historically and crossculturally. Also examined are changing perceptions of the urban phenomenon and attempts to enhance the quality of urban life.

GEOG 147. Urban and Regional Planning.
3 Units
Term Typically Offered: Fall, Spring
Introduction to the theory and practice of urban and regional planning. Topics include the history of planning, the development of comprehensive and land use plans, growth management, and transportation and environmental planning. Includes guest speakers from the planning community as well as the opportunity to work on a project with a community organization or government agency to put into practice what is discussed in class.

GEOG 148. Transportation Geography.
3 Units
Prerequisite(s): GEOG 141, GEOG 147, or GEOG 148 or instructor permission.
Term Typically Offered: Spring only – odd years
Explores the geography of transportation using both theory and applications, quantitative and qualitative methods. Topics include the history and economic importance of transportation systems for all major modes; their political, social, and environmental aspects; and basic analytical methods, including accessibility dynamics, network analysis, and spatial interaction models. Focus will be on the U.S., with frequent reference to local issues, though material will be drawn on from around the world.

GEOG 149. Applied GIS.
3 Units
Term Typically Offered: Fall only
GIS-based research methods and project management. Development of project proposals, data collection plans, and other research techniques in a group and/or individual setting. Readings and lab exercises build on previous GIS skills. Lecture 2 hours; Laboratory 3 hours.

GEOG 150. Programming for GIS II.
3 Units
Prerequisite(s): GEOG 150 or instructor approval.
Term Typically Offered: Fall, Spring
This is an advanced course in programming and scripting for intermediate to advanced GIS users, using an object-oriented programming approach. You will develop well-documented and structured geoprocessing programs for data management, processing, and automation in the Python programming language, leveraging libraries such as ArcPy and GDAL.

GEOG 151. GIS Data Acquisition and Management.
3 Units
Prerequisite(s): GEOG 109
Term Typically Offered: Fall, Spring
This course focuses on acquisition and management of geospatial datasets and addresses the interpretation of a variety of data formats available in global information systems (GIS). It explores concepts of geospatial data management strategies, primary GIS data creation, secondary data acquisitions, and leveraging leading-edge geospatial data deployments.

GEOG 152. California’s Water Resources.
3 Units
Term Typically Offered: Spring only
Study of the location and nature of the state’s surface and underground water, including development by government agencies, water needs of cities, farms, recreation and wildlife, implications of water rights, water marketing and conservation, and management of floods, droughts and pollution.

GEOG 154. Food Geography.
3 Units
Prerequisite(s): GEOG 109
Term Typically Offered: Fall
This course explores the geography of food, the global food system, and human nutrition. Students will examine the production, consumption, and distribution of food and its environmental impact. Topics include agriculture, food systems, and sustainability.

GEOG 155. Urban Geography.
3 Units
Term Typically Offered: Spring only
Introduction to the study of cities and urban areas. Topics include urbanization, urban form, urban processes, and urban policies. Students will engage with case studies and current issues in urban geography.

GEOG 156. Urban and Regional Planning.
3 Units
Term Typically Offered: Fall
Introduction to the theory and practice of urban and regional planning. Topics include the history of planning, the development of comprehensive and land use plans, growth management, and transportation and environmental planning. Includes guest speakers from the planning community as well as the opportunity to work on a project with a community organization or government agency to put into practice what is discussed in class.

GEOG 157. Urban Geography.
3 Units
Term Typically Offered: Spring
Examination of the geography of urban areas and the processes that shape them. Topics include urbanization, urban form, urban processes, and urban policies. Students will engage with case studies and current issues in urban geography.

GEOG 158. Urban and Regional Planning.
3 Units
Term Typically Offered: Fall
Introduction to the theory and practice of urban and regional planning. Topics include the history of planning, the development of comprehensive and land use plans, growth management, and transportation and environmental planning. Includes guest speakers from the planning community as well as the opportunity to work on a project with a community organization or government agency to put into practice what is discussed in class.

GEOG 159. Urban Geography.
3 Units
Term Typically Offered: Spring
Examination of the geography of urban areas and the processes that shape them. Topics include urbanization, urban form, urban processes, and urban policies. Students will engage with case studies and current issues in urban geography.

GEOG 160. Urban and Regional Planning.
3 Units
Term Typically Offered: Fall
Introduction to the theory and practice of urban and regional planning. Topics include the history of planning, the development of comprehensive and land use plans, growth management, and transportation and environmental planning. Includes guest speakers from the planning community as well as the opportunity to work on a project with a community organization or government agency to put into practice what is discussed in class.

GEOG 161. California’s Water Resources.
3 Units
Term Typically Offered: Spring only
Study of the location and nature of the state’s surface and underground water, including development by government agencies, water needs of cities, farms, recreation and wildlife, implications of water rights, water marketing and conservation, and management of floods, droughts and pollution.

GEOG 162. Applied GIS.
3 Units
Term Typically Offered: Fall only
GIS-based research methods and project management. Development of project proposals, data collection plans, and other research techniques in a group and/or individual setting. Readings and lab exercises build on previous GIS skills. Lecture 2 hours; Laboratory 3 hours.

GEOG 163. Quantitative Methods in Geography.
3 Units
Term Typically Offered: Spring only
Introduction to techniques useful in the analysis of spatial distributions and other geographic phenomena: basic aspatial descriptive and inferential techniques, correlation, regression, and spatial inferential techniques.

GEOG 164. Qualitative Methods in Geography.
3 Units
Prerequisite(s): GEOG 102
Students learn and conduct an array of observational and qualitative research techniques used in human geography, including landscape observation, participant observation, interviews, surveys and questionnaires, group discussions (focus groups, charrettes, etc.), visual methods, archival research, and analyzing some of the writing styles commonly used in qualitative research. One learns the relative strengths and weaknesses of these techniques, their appropriate applications, ways to combine them in mixed-methods research, and how to analyze and represent the data.
GEOG 190. Senior Research Seminar in Geography. 3 Units
Prerequisite(s): GEOG 1, GEOG 2, GEOG 3, GEOG 102; senior standing, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X; instructor permission.
General Education Area/Graduation Requirement: Writing Intensive
Graduation Requirement (W)
Term Typically Offered: Spring only
Writing-intensive capstone course requiring students to complete independent research projects displaying their mastery of geography’s content and methods. Projects undertaken in a given semester share a common thematic and/or regional focus. Students use bibliographic, field, spatial analytic, graphic, and verbal skills. Context for projects is provided by a review of the recent history of the discipline. Lecture/discussion three hours.

GEOG 192A. Geography Field Experience A. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring
A particular geographical area is explored and studied via beginning-level field observation. Emphasis may be placed on physical features, cultural features, or both.
Credit/No Credit

GEOG 192B. Geography Field Experience B. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring
A particular geographical area is explored and studied via intermediate-level field observation. Emphasis may be placed on physical features, cultural features, or both.
Credit/No Credit

GEOG 192C. Geography Field Experience C. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring
A particular geographical area is explored and studied via advanced-level field observation. Emphasis may be placed on physical features, cultural features, or both.
Credit/No Credit

GEOG 193A. Field Geography: Urban-Metropolitan. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Spring only – odd years
Examines the internal structure and external relations of Sacramento as a metropolitan center and of nearby urban communities through field observation and exercises. Emphasis is placed on mapping and interviewing as ways of gaining useful information on urban patterns.

GEOG 193B. Field Geography: Suburban-Rural. 3 Units
Prerequisite(s): Instructor permission.
Examines competition for land use in suburban Sacramento as urban sprawl overruns less intensive uses. Small towns in the lower Sacramento Valley also examined. Group field trips, interviews, field mapping and discussions. Field trip(s) may be required.

GEOG 193C. Field Geography: Physical. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall only
Survey of selected areas with systematic examination of elements of the natural landscape. Group field trips and individual preparation of reports and consultation with instructor. Field trip(s) may be required.

GEOG 194. Geography - Related Work Experience. 6 - 12 Units
Prerequisite(s): Consent of supervising faculty and Department Chair.
Term Typically Offered: Fall, Spring
Supervised employment in a company or agency doing geography-related work, arranged through the Department of Geography and the Cooperative Education Program office. Requires preparation of application packet, completion of a 3-6 month full- or part-time work assignment, and a written report. Units not applicable to the Geography major.
Credit/No Credit

GEOG 195A. Geography Internship A. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised work experience at the beginning level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units.
Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units.
Credit/No Credit

GEOG 195B. Geography Internship B. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised work experience at an intermediate level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units.
Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units.
Credit/No Credit

GEOG 195C. Geography Internship C. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised work experience at an advanced level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units.
Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units.
Credit/No Credit
GEOG 196F. Feminist Geography. 3 Units
Term Typically Offered: Fall, Spring, Summer

In this course we bring the feminist project in to the classroom by exploring the work of feminist geographers who seek to challenge the embedded whiteness in our field. We also aim to incorporate the decolonial practices to transform the geographic scholarship in an international and multi-disciplinary context.

GEOG 196G. Programming for GIS II. 3 Units
Prerequisite(s): GEOG 150 or instructor approval.
Term Typically Offered: Spring only

This is an advanced course in programming and scripting for intermediate to advanced GIS users, using an object-oriented programming approach. You will develop well documented and structured geoprocessing programs for data management, processing, and automation in the Python programming language, leveraging libraries such as ArcPy and GDAL.

GEOG 196W. Political Ecology, Nature, and Justice. 3 Units
Term Typically Offered: Fall only – odd years

This course will provide an overview of political ecology, a growing subfield in geography that examines the unequal political and socioeconomic power relations embedded in human-environment interactions. Students will develop advanced critical thinking skills related to real-world socio-environmental issues. The course will introduce major debates, scholarly intersections, and particular themes in contemporary political ecological research, including a discussion of urban issues, gender, race, water, and food justice.

GEOG 198. Co-Curricular Activities. 1 - 6 Units
Prerequisite(s): Consent of faculty Sponsor and department chair.
Term Typically Offered: Fall, Spring

Co-curricular activities related to subject matter and concerns of the Geography Department, e.g. students may qualify for credit by providing special tutorial assistance to EOP students or others in introductory courses.
Note: May be repeated for up to 6 units of credit.

Credit/No Credit

GEOG 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and Department Chair.
Term Typically Offered: Fall, Spring, Summer

Individual projects or directed reading.
Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199A. Geography Special Problems A. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at a beginning level. Graded (CR/NC Available) Units: 1.0 - 3.0
Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199B. Geography Special Problems B. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at an intermediate level, ordinarily taken following completion of GEOG 199A. Graded (CR/NC Available) Units: 1.0 - 3.0
Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199C. Geography Special Problems C. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students competent to carry on individual work.

Credit/No Credit

Geology (GEOL)

GEOL 5. Geology Of Mexico. 4 Units
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring

Introduction to Geology through examination of aspects of the geology of Mexico. Emphasizes problem-based approach to learning Geology and the process of scientific investigation. Topics include a wide range of geological concepts including plate tectonic setting of Mexico, living with volcanoes: the Mexican volcanic belt, the Mexico City earthquake, issues of water supply, flooding and atmospheric pollution in Mexico City, the Chicxulub crater and geologic time, ore deposits of Mexico. Lecture three hours; laboratory three hours.

GEOL 5A. Geology of Mexico Field Trip. 2 Units
Prerequisite(s): GEOL 5
Term Typically Offered: Fall, Spring

Focuses on fundamental geologic concepts as seen from real world examples in Mexico that will be visited during several strategic field stops. Field stops will emphasize a problem-based approach to learning geology and the process of scientific investigation. Topics include a wide range of geological concepts including plate tectonic setting of Mexico, living with volcanoes, the Mexico City earthquake, issues of water supply, flooding, climate change and atmospheric pollution in Mexico City, the Chicxulub meteor impact crater, geologic time, ore deposits of Mexico, and natural hazards. Field trip ten days. Field trip(s) may be required.
GEOL 7. Natural Disasters. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Examination of earth materials and earth processes through the study of natural disasters. Topics include earthquakes, volcanoes, landslides, floods, tsunamis, hurricanes, tornadoes and meteorite impacts. Examination of causes, effects and mitigation of natural disasters.

GEOL 8. Earth Science. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

Earth and its neighbors in space. Scientific method and discovery in the study of stars, planets, weather, rivers, glaciers, oceans, rocks, volcanoes, earthquakes, landslides, mountains, drifting continents, the earth in time. Note: Students contemplating a geology major or minor in geology should enroll in GEOL 10, not in GEOL 8. No credit for those who have taken GEOL 10 or equivalent.

GEOL 8L. Earth Science Lab. 1 Unit
Prerequisite(s): GEOL 8; may be taken concurrently.
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring

Emphasizes scientific methods and systematic laboratory procedures. Includes weather analysis, rock and mineral identification, study of geologic concepts by means of topographic maps, and exercises in astronomy and oceanography. Laboratory three hours.

GEOL 8T. Earth Science Lab for Teachers. 1 Unit
Prerequisite(s): GEOL 8; may be taken concurrently.
Term Typically Offered: Fall, Spring

Exploration of the solid Earth, its atmosphere and oceans, and the Earth's place in the solar system. Emphasizes learning Earth science through investigation, and uses Earth science to understand the processes of science. Laboratory three hours.

GEOL 10. Physical Geology. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Rocks and their mineral constituents, geological processes such as weathering, erosion, glaciation, mountain building, etc., volcanoes, earthquakes, folds, faults, the earth's interior, plate tectonics and earth resources. Field trip. Fee course. Fee course. Field trip(s) may be required.

GEOL 10L. Physical Geology Lab. 1 Unit
Prerequisite(s): GEOL 10; may be taken concurrently.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring

Laboratory supplement to GEOL 10. Emphasizes scientific method and systematic laboratory procedures. Identification of common minerals and rocks. Introduction to and analysis of topographic and geologic maps. Field trip. Laboratory three hours. Fee course. Fee course. Field trip(s) may be required.

GEOL 11. Digital Methods in Geoscience. 1 Unit
Prerequisite(s): GEOL 5 or GEOL 10/10L. GEOL 10L can be taken concurrently.
Term Typically Offered: Fall, Spring

Introductory course to the basic computing needs to be successful in the geosciences. Topics include Microsoft Office, Adobe Suite and reference software.

GEOL 12. Historical Geology. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L.
Term Typically Offered: Fall, Spring

Origin and geological history of the earth and the evolution of its animal and plant inhabitants. Fee course.

Note: Lecture 3 hours.

GEOL 12L. Historical Geology Lab. 1 Unit
Prerequisite(s): GEOL 12; and GEOL 5 or GEOL 10 and GEOL 10L. GEOL 12 may be taken concurrently.
Term Typically Offered: Fall, Spring

Supplements GEOL 12. Use of sedimentary rocks, fossils, geologic maps, and structural sections in interpreting ancient environments, tectonic settings, and geologic history. Age relations and correlation of rock and time-rock units. Introduction to fossil identification and biostratigraphy. Laboratory three hours.

GEOL 100. Earth Materials - Rocks and Minerals. 4 Units
Prerequisite(s): CHEM 1A, GEOL 5 or GEOL 10/10L, and GEOL 12 (GEOL 12 can be taken concurrently) Field Trip.
Term Typically Offered: Fall, Spring

Properties and identification of minerals and rocks; rock formation and the rock cycle. Lecture three hours; laboratory three hours; field trip. Field trip(s) may be required.

GEOL 101. Optical Mineralogy. 2 Units
Prerequisite(s): CHEM 1A, GEOL 5 or GEOL 10/10L, and GEOL 100 (GEOL 100 can be taken concurrently)
Term Typically Offered: Fall, Spring

Introduction to advanced mineral identification by physical and optical properties. Techniques and theory of optical mineral analysis and crystallography. Lecture 1 hour; laboratory 3 hours.

GEOL 102. Igneous and Metamorphic Petrology. 4 Units
Prerequisite(s): GEOL 100 and GEOL 103
Term Typically Offered: Fall, Spring

Study of the origin, evolution, occurrence, geochemistry, dynamics and physical characteristics of igneous and metamorphic systems. The laboratory will focus on both hand-specimen and petrographic-microscope studies. Lecture three hours, laboratory three hours. Fee course. Fee course.
GEOL 103. Sedimentology/Stratigraphy. 4 Units
Prerequisite(s): GEOL 12, GEOL 12L, and GEOL 100
Term Typically Offered: Spring only
Compositions, textures, classification, origins and structures of sediments and sedimentary rocks. Hand specimen observation and interpretation. Facies models, classification and correlation of stratigraphic units, subsurface techniques. Lab emphasizes hand specimen and microscope identification and subsurface techniques. Field trip. Lecture three hours, laboratory three hours. Fee course.

GEOL 105. Paleontology. 4 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, GEOL 12 and GEOL 12L.
Term Typically Offered: Spring only
Biological, evolutions, classification and paleoecology of important groups of fossil organisms. Uses of fossils in solving geologic problems.

GEOL 110A. Structural Geology and Tectonics. 4 Units
Prerequisite(s): GEOL 111A and GEOL 111B, PHYS 5A or PHYS 11A, MATH 26A or MATH 30.
Term Typically Offered: Fall, Spring
Description, analysis and interpretation of geologic structures and tectonic settings. Theory of stress and strain as it pertains to the origin of folds, faults, joints, cleavage, and other structural elements. Laboratory includes techniques of structural analysis such as orthographic projections, stereonets, structure contours, Mohr diagrams, interpretation of maps and cross sections. Lecture three hours, laboratory three hours.

GEOL 110B. Structural Geology Field. 1 Unit
Prerequisite(s): GEOL 103, GEOL 111A, GEOL 111B, and GEOL 110A. It is recommended that GEOL 110A be taken concurrently.
Term Typically Offered: Fall, Spring
Field description, mapping and interpretation of geologic structures. Includes techniques of taking detailed field notes, field photography measurement of structures using a pocket transit, geologic map and cross section construction, stereonet analysis, and report writing. Consists of off-campus fieldwork. Fee course.

GEOL 111A. Field Geology. 2 Units
Prerequisite(s): GEOL 12L and GEOL 100
Corequisite(s): GEOL 111B
Term Typically Offered: Spring only
Science and art of recognizing, describing and interpreting geologic features in the field. Lecture and laboratory course on the preparation and use of topographic and geologic maps, stratigraphic and cross sections, compass and GPS instrument. Lecture one hour; laboratory three hours.

GEOL 111B. Field Techniques. 2 Units
Prerequisite(s): GEOL 100 and GEOL 103. GEOL 103 may be taken concurrently.
Corequisite(s): GEOL 111A
Term Typically Offered: Spring only
Introduction to geologic field methods including descriptions of rocks, geologic mapping, observation, interpretation and geologic report writing. Detailed mapping techniques will also be covered; these may include the use of plane table, total station theodolite and global position systems. Consists of off-campus fieldwork. Fee course.

GEOL 112. Geophysics For Geologists. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, PHYS 5A, PHYS 5B which may be taken concurrently.
Term Typically Offered: Fall, Spring
Introduction to the principal geophysical concepts and techniques useful to geologists in the study of tectonics, the Earth’s interior and resource exploration. Includes the study of seismology, heat flow, gravity, borehole geophysics, electromagnetism and geodynamics. Fee Course/Field Trip.

GEOL 114. Volcanology. 3 Units
Prerequisite(s): GEOL 100; May be taken concurrently.
Term Typically Offered: Fall, Spring
An advanced exploration of physical volcanic processes, chemistry of magmas, interpretation of volcanic deposits, historic eruptions and volcanic hazard assessment.

GEOL 115. Volcanoes: An Introduction. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
An introductory to volcanoes including volcanic landforms, eruption styles, properties of magma, and volcanic hazards/ mitigation.

GEOL 120. Surficial Processes. 4 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L; GEOL 12, GEOL 12L.
Term Typically Offered: Fall, Spring
Focused study on the basic forces that drive surficial processes such as wind water and gravity and the role of weathering, sediment transport and deposition on landform and landscape development. A laboratory component will enhance student understanding by solving applied problems as well as develop proficiencies with various geologic tools.

Note: 150 minutes Lecture = 3 units, 150 minutes Lab = 1 unit. Fee Course.

GEOL 12L and GEOL 100
GEOL 121. Geology of California. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10.
Term Typically Offered: Fall, Spring
Regional study of California and certain surrounding areas with regard to geologic development, plate tectonics, economic resources and geologic hazards. Lecture and field trip(s). Fee course. Fee course.
Field trip(s) may be required.

GEOL 122. Hydrology Research Experience. 3 Units
Hydrology research and professional development experience. Students will learn hypothesis development and testing, data interpretation, and science communication skills focusing on data collected during a summer Hydrology field experience. Students will also learn about Hydrology career paths, apply for internships, and present research findings. Students must participate in the summer Hydrology field experience prior to taking this class.

GEOL 123. Geochemistry. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, CHEM 1A.
Term Typically Offered: Fall, Spring
Fundamentals of the geochemistry of Earth materials. Thermodynamics and kinetics of geological environments, silicates and carbonates, major element geochemistry, trace and rare earth element geochemistry, stable and radiogenic isotopes. Applications to studies of aqueous, pedogenic, igneous, sedimentary, and metamorphic environments. Analysis of geochemical aspects of contemporary resource, environmental, and paleoenvironmental problems.

GEOL 125. Metallic Ore Deposits. 3 Units
Prerequisite(s): GEOL 100, CHEM 1A.
Term Typically Offered: Fall, Spring
Fee course.
Field trip(s) may be required.

GEOL 126. Environmental Field Methods. 3 Units
Prerequisite(s): GEOL 10 or GEOL 10L or instructor permission.
Field analysis of the local environment, including soil and water systems. Students will learn monitoring design, sample collections, sample analysis, data interpretation, and presentation methodologies for environmental geology applications.

GEOL 127. Hydrogeology. 4 Units
Prerequisite(s): CHEM 1A, GEOL 10, GEOL 10L, PHYS 5A, and MATH 26A or MATH 30, or instructor permission.
Term Typically Offered: Spring only
Presents fundamentals of groundwater flow, as influenced by topography and geology; geological aspects of groundwater supply, contamination, remediation, and protection of hydrogeological regions of the U.S. and their critical groundwater issues. Lecture three hours; laboratory three hours. Lecture three hours.

GEOL 130. Oceanography. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer
Survey of geological, physical, chemical and biological oceanography including the sea floor; waves, tides, currents; the physical and chemical properties of seawater and their distribution in the sea; planktonic life and its relation to nutrients.

GEOL 132. Marine Geology. 3 Units
Prerequisite(s): GEOL 10 and GEOL 10L or GEOL 12 and GEOL 12L
Term Typically Offered: Spring only
Origin, structure and evolution of the ocean basins and their margins. Topics covered will include marine sediments, seafloor bathymetry, seismic stratigraphy, sea level history, and marine micropaleontology. Fee course. Field trip: Weekend trip to Moss Landing, California to collect marine samples.
Fee course.
Field trip(s) may be required.

GEOL 140. Geology and the Environment. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Applies geologic data and principles to situations affecting our environment. The geologic study of earthquakes, volcanoes, floods, landslides, groundwater and similar topics supplies the background data for lectures on land use and other social choices. Topics such as geopolitics and mineral supply provide a basis for understanding international politics, social costs, and world economics. Fee course.
Fee course.

GEOL 150. Computer Mapping in Geology. 3 Units
Prerequisite(s): GEOG 109 or instructor permission
Term Typically Offered: Fall, Spring
This course is designed to enhance the mapping skills of geology majors by providing them an opportunity to learn modern computer aided mapping techniques - methods and tools widely used across industry, government, and academe. The course is designed to teach students how to effectively use various tools and mapping software by applying their developing skills in solving a variety of geological problems. This course strategy will help develop both student technical map making and innovative problem solving skills.

GEOL 170. Age of Dinosaurs. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
Applies to the fundamental principles of geology, biology, and ecology to understanding the evolution of the Mesozoic world. Emphasis is placed on the nature and evolution of dinosaurs in the context of global regional changes in the Mesozoic ecosystem. Included are considerations of the data, methods, and uncertainties in paleontology and other historical sciences.

GEOL 171. Petroleum Geology. 3 Units
Prerequisite(s): PHYS 5A & GEOL 103. GEOL 103 may be taken concurrently.
Term Typically Offered: Fall, Spring
Introduction to the origin, migration, and accumulation of hydrocarbons in the context of stratigraphic and structural systems. Exploration and production of both conventional and unconventional resources. Lecture three hours. Field trip. Fee Course.
Fee course.
Field trip(s) may be required.
GEOL 177. Hawaii Volcanic Field Trip. 2 Units
Prerequisite(s): Geology 10 or another physical geology course approved by instructor; Field Trip, 2 units. Fee course.
Term Typically Offered: Fall, Spring

An investigation and visit to the many interesting volcanic features and eruption activities of Hawaiian volcanism. Topics include tectonics, physical volcanology, and volcanic monitoring techniques. Credit/No Credit
Fee course.

GEOL 180. Water Planet. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Investigating the physical processes that control water movement and supply across the planet. Subjects include the hydrological cycle, oceans, waves and tides, fisheries, water in the atmosphere, water and wildfire, landslides, river systems, groundwater and water quality, water management, and the future of water resources on a changing planet.

GEOL 184. Geological Field Trip. 2 Units
Term Typically Offered: Fall only

10-day field trip to a region of outstanding geology. Attendance at preliminary meetings is required. Analyzes and interpretation of geologic features is emphasized. Fee course.
Note: Student should consult the Geology Department during the semester before planning to take the course. May be taken more than once for credit.
Credit/No Credit
Fee course.
Field trip(s) may be required.

GEOL 188. Advanced Geologic Mapping. 6 Units
Prerequisite(s): GEOL 102, GEOL 103, GEOL 110A, GEOL 110B, GEOL 111A, GEOL 111B and instructor permission.
Term Typically Offered: Fall, Spring

Advanced principles/methods of geologic mapping, interpretation and geologic report writing for selected field areas in the western United States. Mapping techniques include the use of aerial photographs and global position systems. Consists of on-campus field preparation and off-campus fieldwork. Fee course.
Fee course.

GEOL 189. Geology Colloquium. 1 Unit
Term Typically Offered: Fall, Spring

Students will attend and participate in the joint Geology, Environmental Studies, Ecology weekly colloquium series and will be exposed to a variety of geologic and environmental topics. Speakers include those from CSUS, the USGS, government and professional organizations, and other academic institutions. Topics and speakers vary each semester.
Note: This course must be taken twice.
Credit/No Credit

GEOL 190A. Geology and Tectonic Development of California Seminar. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10, GEOL 12; GEOL 110A recommended.
Term Typically Offered: Fall, Spring

Seminar in the geologic and tectonic development of California.

GEOL 193C. Engineering Geology. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, GEOL 12, PHYS 5A or PHYS 11A, MATH 29 or high school trigonometry.
Term Typically Offered: Fall, Spring

Investigates the engineering properties of earth materials, the engineering considerations required to build safe and durable structures on and within the Earth, and problems associated with structures designed and built neglecting physical environmental conditions. Designed to introduce engineering concepts to students who have a competent grasp of general geologic principles and processes. Lecture 3 hours.
Credit/No Credit

GEOL 195. Geology Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised unpaid work experience in government or industry. Supervision is provided by the faculty instructor and responsible officials in the work situations.
Note: Open to all upper division Geology majors with instructor permission. Number of units earned depends on number of hours worked.
Credit/No Credit

GEOL 196C. Introduction to Volcanoes Field Trip. 1 Unit
Prerequisite(s): GEOL 115 (can be taken concurrently).
Term Typically Offered: Fall, Summer

3-day field trip to regional volcanic sites such as Lassen Volcanic National Park. Course emphasizes analysis and interpretation of volcanic features as well as the impact of volcanic hazards on humans and society. Attendance at preliminary meetings is required. Fee course.
Prerequisite: GEOL 115, can be taken concurrently
Credit/No Credit
Fee course.
Field trip(s) may be required.

GEOL 197. Advanced Laboratory Techniques for Geology. 1 - 3 Units
Prerequisite(s): Appropriate upper division courses and instructor permission.
Term Typically Offered: Fall, Spring

Supervised individual instruction on techniques applied in geology laboratories for advanced research in mineralogy, petrology, geochemistry, geophysics, and paleontology. Fee course.
Credit/No Credit

GEOL 198A. Senior Research Preparation. 1 Unit
Prerequisite(s): Senior status and appropriate courses as determined by a Departmental faculty committee. The proposed project must be approved by a Department committee; instructor permission.
Term Typically Offered: Fall, Spring

Selection and design of an independent research project. A final written report is required and includes: research proposal, bibliography, and results of preliminary review of the literature. Student must choose a supervising instructor.
GEOL 198B. Senior Research Project. 2 Units
Possible topics include paleomagnetism, hydrology, chronological techniques, surface geology, rock surface structure, or other topics.
Prerequisite(s): Senior status and appropriate courses as determined by a Departmental faculty committee. The proposed project must be approved by the Department committee; instructor permission.
Term Typically Offered: Fall, Spring
Completion of an independent research project. A final written report is required. Progress reports may be required by the supervision instructor. Presentation of an oral report on the research project during the same semester is required.

GEOL 199A. Beginning Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or special studies at a beginning level, including fieldwork, lab work, library study, or other learning activities.
Note: Open only to students judged competent to carry on individual work. Credit/noncredit grading also available.

GEOL 199B. Intermediate Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or special studies at an intermediate level, including fieldwork, lab work, library study, or other learning activities.
Note: Open only to students judged competent to carry on individual work. Credit/noncredit grading also available.

GEOL 199C. Advanced Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or special studies at an advanced level, including fieldwork, lab work, library study, or other learning activities.
Note: Open only to students judged competent to carry on individual work. Credit/noncredit grading also available.

GEOL 200. Graduate Research Methods Seminar. 3 Units
Term Typically Offered: Fall
Developing a research proposal, library and internet searches, seeking external funding, presentation graphics, and publication formats. Students will develop a research project in preparation for thesis requirement. Seminar three hours.
Note: Graduate Writing Intensive (GWI).

GEOL 201. Seminar in Petrology. 3 Units
Prerequisite(s): GEOL 102, GEOL 103, graduate-level status in Geology, or instructor permission.
Term Typically Offered: Fall, Spring
Advanced study of petrology. Topics may include the origin and evolution of igneous/metamorphic/sedimentary rocks in different tectonic settings; application of advanced petrologic tools to explore current research questions including rock and mineral chemistry, optical analysis, geochronology, thermochronology.
Note: This course requires one or more field trips. May be taken for credit multiple times if covering different topics.
Field trip(s) may be required.

GEOL 202. Aqueous Geochemistry. 3 Units
Prerequisite(s): CHEM 1B; instructor permission.
Term Typically Offered: Fall, Spring

GEOL 204. Contaminant Hydrogeology. 3 Units
Prerequisite(s): CHEM 1B and CHEM 6B or CHEM 20, GEOL 202.
Term Typically Offered: Fall, Spring
Contaminants and contaminant transport in near-surface environments. Fluid-sediment interaction, fluid partitioning, common geochemical reactions, stability and mobility of groundwater contaminants, multi-phase systems, sampling considerations and overview of analytical techniques.

GEOL 208. Groundwater Modeling. 3 Units
Prerequisite(s): GEOL 127, MATH 45.
Term Typically Offered: Fall, Spring
Computer modeling of groundwater systems using 2 and 3 dimensional numerical solutions and common software packages. Topics will include data acquisition, constructing a numerical model, model calibration, flow paths, particle tracking and model output.

GEOL 212. Geologic Remote Imaging. 3 Units
Prerequisite(s): PHYS 5B or PHYS 11B; GEOL 102, GEOL 110A; and proficiency using a personal computer.
Term Typically Offered: Fall, Spring
Use of remote imaging in geologic applications. Types of imagery, acquisition, production, processing, and interpretation are covered.

GEOL 213. Seminar in Structural Geology and Tectonics. 3 Units
Prerequisite(s): GEOL 110A, MATH 30, graduate-level status in geology, or instructor permission.
Term Typically Offered: Fall, Spring
Advanced treatment of deformation of the lithosphere of the Earth over short and long timescales. Topics may include structural analysis, tectonic geochemistry, field studies, geochronology, use of technical analytical software, and interpretation of geologic mapping; review of published literature, collection and analysis of data, and preparation of technical manuscript.
Note: This course requires one or more field trips. May be repeated for credit if covering different topics.
Field trip(s) may be required.

GEOL 214. Advanced Volcanology. 3 Units
Term Typically Offered: Fall, Spring
Analyzes volcanic eruption processes. Interpretation of volcanic deposits in the evaluation of volcanic hazards, risk, eruption processes, and geologic history. Field trip. Field trip(s) may be required.

GEOL 218. Seminar in Geophysics. 3 Units
Prerequisite(s): PHYS 5B or PHYS 11C, GEOL 112, graduate-level status in geology, or instructor permission.
Term Typically Offered: Fall, Spring
Advanced study of geophysics. The focus of this course is the quantitative analysis of physical processes and the physical properties of the Earth at both local and global scale. Course may include field measurements in addition to analytical and numerical modeling. Topics covered in the course may include heat flow, seismology, gravity, magnetics, geodesy, plate tectonics, borehole techniques, and near surface exploration.
Note: This course requires one or more field trips. May be taken for credit multiple times if covering different topics.
Field trip(s) may be required.
GEOL 220. Seminar in Surficial Processes. 3 Units
Prerequisite(s): GEOL 120 or equivalent, graduate status in Geology, or instructor permission.
Term Typically Offered: Fall, Spring
Course explores the dynamics of geological and hydrologic processes operating at the earth's surface and the landscapes in which they interact. Topics may include hydrologic and geologic surface processes, system thresholds and responses, process linkages, problem solving, data generation and evaluation that characterize processes and the landscapes with which they interact.
Note: May be taken for credit multiple times if covering different topics.

GEOL 223. Seminar in Advanced Geochemistry. 3 Units
Prerequisite(s): CHEM 1A or equivalent, graduate-level status in Geology, or instructor permission.
Term Typically Offered: Fall, Spring
Advanced topics covering the geochemistry on Earth and of Earth materials. Topics may include: thermodynamics and kinetics of geological environments, silicate and carbonate systems, major element geochemistry, trace and rare earth element geochemistry, stable and radiogenic isotopes; applications to studies of aqueous, pedogenic, marine, igneous, sedimentary, or metamorphic environments; analysis of geochemical aspects of contemporary resource, environmental, and paleoenvironmental problems.
Note: May be taken for credit multiple times if covering different topics.

GEOL 227. Seminar in Advanced Hydrogeology. 3 Units
Prerequisite(s): GEOL 127, graduate-level status in geology, or instructor permission.
Term Typically Offered: Fall, Spring
Advanced study of hydrogeology. Topics may include: water budgets, groundwater flow to wells, aquifer testing, fracture flow, dewatering, salt water intrusion, groundwater chemistry and dating, tracers, and contaminant transport and remediation.
Note: May be taken for credit multiple times if covering different topics.

GEOL 230. Seminar in Geology. 3 Units
Term Typically Offered: Fall, Spring
Reading, analysis and discussion of the geologic literature on selected topics in geology. Student presentations and reports are required.
Note: May be taken twice for credit.

GEOL 240. Advanced Special Topics in Geology. 3 Units
Prerequisite(s): Graduate-level status in geology and/or instructor permission.
Term Typically Offered: Fall, Spring
Advanced special topics in Geology that may include structural geology, volcanology, hydrogeology, engineering geology or other specialized topics selected to meet student demand or respond to industry trends in geology.
Note: May be taken for credit multiple times if covering different topics.

GEOL 275. Quantitative and Numerical Research Methods. 3 Units
Prerequisite(s): MATH 31
Term Typically Offered: Fall, Spring
Introduction to quantitative and numerical methods of solving geologic problems using high level programming.

GEOL 280. Seminar in Earth's Climate History. 3 Units
Prerequisite(s): Graduate-level status in geology and/or instructor permission.
Term Typically Offered: Fall, Spring
Seminar course on global climate change through Earth's geologic history. Topics may include the mechanisms of climate change, climate archives (how we determine Earth's climate history), the snow-ball earth hypothesis, Paleocene-Eocene Thermal Maximum, glacial/interglacial climate change, humans and climate change, and mitigation and adaptation to climate change.
Note: May be taken for credit multiple times if covering different topics.

GEOL 290. Regional Geology of the Western US. 3 Units
Prerequisite(s): GEOL 100, GEOL 102, GEOL 103 and GEOL 110A.
Term Typically Offered: Fall, Spring
Application of advanced geological concepts in tectonics, stratigraphy, sedimentology, petrology, and volcanism to the geologic evolution of the Western United States from Precambrian to present. Field trip. Course Fee. Field trip(s) may be required.

GEOL 293. Engineering Geology. 3 Units
Prerequisite(s): GEOL 193C.
Term Typically Offered: Fall, Spring
Takes a geological approach to evaluating engineering issues associated with building with or on natural earthen materials. Rock and soil mechanics, slope stability, geophysical investigation of rock and soil properties.
Note: 150 minutes Lecture = 3 units.

GEOL 299. Special Problems in Geology. 1 - 4 Units
Prerequisite(s): Graduate-level status in geology, approval of project by a faculty sponsor and Department Chair; instructor permission.
Term Typically Offered: Fall, Spring
Graduate research. Independent research in geology that may include library research, short-term original research, technique development, fieldwork, or laboratory research. May include research toward thesis proposal. Culminating experience will be in the form of a written report, oral presentation, or scientific paper.

GEOL 500. Master's Thesis. 6 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring
Completion of a thesis approved for the Master's degree. Should be taken in the final semester prior to the completion of all requirements for the degree.

GEOL 596. Comprehensive Examination. 0 Units
Term Typically Offered: Fall, Spring
A written comprehensive examination administered by a committee of three faculty members. Assesses the student's ability to integrate knowledge from core and elective courses, show critical and independent thinking, and demonstrate mastery of the subject matter. Required for the non-thesis option. Graded: CR/NC. May be retaken one time after 4 calendar months. Units: 0.
Credit/No Credit
German (GERM)

GERM 1A. Elementary German.  4 Units
Term Typically Offered: Fall only
Focuses on the development of listening, speaking, and reading skills. Special attention will be given to the relationship of the language to the civilization and culture of the German-speaking countries.

GERM 1B. Elementary German.  4 Units
Prerequisite(s): GERM 1A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring
Continuation of GERM 1A. Speaking, listening, and reading skills are practiced and more emphasis is placed on the development of writing skills than in GERM 1A. Cultural introduction to the German-speaking countries is continued.

GERM 2A. Intermediate German.  4 Units
Prerequisite(s): GERM 1B or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring
Continuation of GERM 1B with review of grammar and with further development of reading ability but with a greater emphasis on active skills in speaking and writing.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

GERM 2B. Intermediate German.  4 Units
Prerequisite(s): GERM 2A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Spring only
Continuation of GERM 2A with greater emphasis on skills in writing.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

GERM 5A. German Language Practice.  3 Units
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring
Practice with German conversation and vocabulary; supervised individual and small-group instruction designed to develop German vocabulary, including conversation and listening skills at an intermediate level.
Note: Meets the Foreign Language Graduation Proficiency Requirement. May be taken for credit four times.

GERM 100. Advanced German Grammar.  3 Units
Term Typically Offered: Fall, Spring
Study of grammar and style and their practical application in writing and speaking.

GERM 105. Advanced German Language Practice.  3 Units
Term Typically Offered: Spring only
Supervised individual and small-group practice for upper-division students desiring to improve their German language skills, especially conversation, listening and vocabulary. Some written work may be assigned. May be taken for credit three times, but may count only once for major or minor credit.

GERM 140. Heroes, Dragons and Quests.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only
Exploration of the heroic adventures of the medieval knights in their quests for fame and love, with special attention to the bridal quest and the roles of their "ladies": their social, political, and economic position, and their impact on life in the Middle Ages. Discussions will be based on the reading of selected Middle High German works in English translation.
Note: No German language requirement.

GERM 141. German Mythology and Legend.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only
Exploration of Germanic myth and legend and their impact on art and literature. Readings in English.
Note: No German language requirement.

GERM 142. German Folk Literature, Legend, and Lore.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only
Study of the traditional folk literature; fairy tales, folk tales, legends, ballads and folk songs; of the German-speaking people, their holiday traditions, festivals and social customs. Readings in English.
Note: No German language requirement.

GERM 143. King Arthur and the Knights of the Round Table in Germany.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only
Study of King Arthur and the knights of the Round Table in the German medieval romances read in English translation.
Note: No German language requirement. Course will be offered every two years.

GERM 150. German Civilization: Beginning to 16th Century.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only
Historical, social, and artistic forces in German civilization from the time of the Great Migrations to the Reformation. All readings and lectures in English.

GERM 151. German Civilization: 17th Century to Present.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only
Historical, social, and artistic forces in German civilization from the Reformation through the 20th century. All readings and lectures in English.

GERM 194. Field Experience/Internship.  1 - 3 Units
Prerequisite(s): Intermediate competency in German and instructor permission.
Term Typically Offered: Fall, Spring
Directed fieldwork in a project which uses the language skills developed through previous study of German. The projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. May be taken more than once for credit. Credit/No Credit
GERM 195. Fieldwork: Tutoring. 1 - 3 Units
Prerequisite(s): Native/near-native fluency in German; upper division status; instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division students of German under supervision of instructor. May be taken for credit more than once.
Credit/No Credit

GERM 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of instructor supervising the work.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on independent study.
Credit/No Credit

Gerontology (GERO)

GERO 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provide students with the opportunity to interact with fellow students and the seminar leader and to build a community of academic and personal support, as well as explore gerontological concepts needed to respond to demographic changes in today's world.

GERO 100. Aging Issues in Contemporary America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Introduction to the field of Gerontology and how the discipline addresses society's aging needs. An examination of current issues in gerontology using a life span perspective focusing on older adults' needs/concerns along life's continuum in various environments. Major topics include implications of the demographic imperative, common aging changes/conditions, myths and stereotypes, effects of health/illness on individual and family roles, basic social issues and policies arising from the graying of America, and media, cultural and gender influences.

GERO 101. Older Adult Services and Strategies. 3 Units
Term Typically Offered: Fall, Spring

Exploration and analysis of the older adult service continuum within the context of changing diverse societal needs, service availability and accessibility, current public policy, and administrative and management issues facing care providers. A multidisciplinary examination of the spectrum of services and programs targeted for older adults and their families. Includes information and referral processes and agencies, recreational and social options, housing alternatives, in-home, residential and skilled care options, including health care eligibility criteria, funding sources, and adult protective services.
Note: This is a service learning course.

GERO 102. Social Policy for an Aging Society. 3 Units
Term Typically Offered: Fall, Spring

Explores context and process for policy making by national and California state governments including ethical dimensions. Applications are developed from students' and instructor's areas of interest including K-12 and higher education, land-use policy, and aging issues such as elder advocacy, Social Security, and Medicare/Medicaid. Provides background and skills for entry level positions in public or non-profit organizations. Cross Listed: PPA 100; only one may be counted for credit.

GERO 103. Applied Care Management in Gerontological Practice. 3 Units
Term Typically Offered: Fall, Spring

Students will analyze issues, services, methods, and interventions related to practice for older adult care, their families, and caregivers. Outcomes include understanding the of unique characteristics/needs of older adults; systems approach to working with older adults; issues affecting service delivery (diversity, gender, ethics, special health, mental health needs); basic practice skills for effective service delivery to older adults and families/caregivers, attitudes and roles when working with older adults, and the business practices of geriatric care management.
Note: This is a service learning course.

GERO 121. Strategies for Optimal Aging. 3 Units
Term Typically Offered: Fall, Spring

This course is an in-depth, interdisciplinary, and holistic exploration of health promotion and adaptation paradigms that facilitate optimal and productive longevity. Hardiness and self-efficacy theories along with expectations and experiences enhancing quality of life are explored. Interactions among such variables as activity, diet, exercise, work/leisure, attitudes/beliefs, humor, living environments, spirituality, and social networks are investigated within the contexts of gender, economic, and cultural perspectives.
Cross listed: GERO 221

GERO 122. Interprofessional Approaches to Health Care in Older Adults. 3 Units
Term Typically Offered: Fall, Spring

Offers in-depth study/analysis of prevalent pathophysiological-based diseases and psychological disorders commonly experienced by older adults and frail elder populations. Disease/disorder causes and the effects of chronic illness on individuals' activities of daily living, sexuality, relationships, and coping abilities with changing lifestyles are examined using a life course framework and evidenced-based research. Assessment tools, lab value changes, medication needs, and skills for entry level positions in public or non-profit organizations. Paired Course: GERO 222

GERO 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of instructor supervising the work.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on independent study.
Credit/No Credit

GERO 100. Aging Issues in Contemporary America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Introduction to the field of Gerontology and how the discipline addresses society's aging needs. An examination of current issues in gerontology using a life span perspective focusing on older adults' needs/concerns along life's continuum in various environments. Major topics include implications of the demographic imperative, common aging changes/conditions, myths and stereotypes, effects of health/illness on individual and family roles, basic social issues and policies arising from the graying of America, and media, cultural and gender influences.

GERO 101. Older Adult Services and Strategies. 3 Units
Term Typically Offered: Fall, Spring

Exploration and analysis of the older adult service continuum within the context of changing diverse societal needs, service availability and accessibility, current public policy, and administrative and management issues facing care providers. A multidisciplinary examination of the spectrum of services and programs targeted for older adults and their families. Includes information and referral processes and agencies, recreational and social options, housing alternatives, in-home, residential and skilled care options, including health care eligibility criteria, funding sources, and adult protective services.
Note: This is a service learning course.
GERO 123.  Research on Aging & the Life Course.  3 Units  
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5  
Term Typically Offered: Fall, Spring  
Analysis, evaluation, and application of existent gerontological research. Hands-on practice carrying out aging-related research projects, including defining the research question, selecting data collection tools, collecting and analyzing quantitative and qualitative data, and presenting results in narrative and visual formats. Special emphasis on connecting gerontological theory, research, and interdisciplinary practice, accommodating participants with sensory, physical, or cognitive limitations, and ethical issues.

GERO 124.  Perspectives on Death and Dying.  3 Units  
Prerequisite(s): Student's academic level must be Junior of higher to enroll in this class.  
Term Typically Offered: Fall, Spring  
Examination of the beliefs, attitudes, and behaviors associated with death and dying. Topics covered include children’s and adult’s concepts of dying and death; causes and types of death; self-destructive behavior; grief and mourning in the dying person and their survivors; physicians’ aid in dying and other legal and ethical issues; and cross-cultural and historical perspectives on death.

Cross listed: PSYC 151

GERO 125.  Moving Toward Equity in California Aging Policy and Practice.  3 Units  
Term Typically Offered: Fall, Spring, Summer  
This course examines California’s state programs, services, and funding streams that support low-income older adults and persons with disabilities. It is focused on addressing equity, parity, funding and access. Students will be introduced to California’s innovative Master Plan for Aging. Through studying past shortfalls and new approaches, this course will inform a new and diverse workforce in order to serve historically underserved communities, including BIPOC, Latinx, API, and LGBTQ+.

GERO 130.  Gerontology Practicum.  3 Units  
Prerequisite(s): 24 Major units including GERO 101, GERO 102, GERO 103, GERO 121, GERO 122 and instructor permission.  
Term Typically Offered: Fall, Spring  
Supervised practicum experience in a community agency planning for or delivering professional services to older adults. This practicum experience is part of two culminating courses for the major and focuses on application of the interdisciplinary nature of the discipline while affording students direct, hands on experiences. Includes a field seminar. Seminar discussions focus on the application of gerontological concepts derived from all gerontology courses and are applied to each student’s specific practicum area.

Note: This is a service learning course.

Credit/No Credit

GERO 131.  Gerontology Capstone Practicum.  3 Units  
Prerequisite(s): 36 Major units including GERO 101, GERO 102, GERO 103, GERO 121, GERO 122, GERO 130 and instructor permission.  
Term Typically Offered: Fall, Spring  
Supervised internship experience in a community agency planning for or delivering professional services to older adults. This capstone practicum experience builds on the first internship course and is the final culminating course for the major and focuses on advanced application of the interdisciplinary nature of the discipline while affording students direct, hands on experiences. Includes a field seminar. Seminar discussions focus on the application of gerontologic concepts derived from all gerontology courses and are applied to each student’s specific practicum area.

Note: This is a service learning course. Minors may take this course without taking GERO 130

Credit/No Credit

GERO 199.  Special Problems.  1 - 3 Units  
Prerequisite(s): Advanced approval of project goal and objectives by program director.  
Term Typically Offered: Fall, Spring  
Independent research, project, or directed reading.

Note: Open to students who are capable of independent work. A maximum of 3 units may count toward elective major requirements.

Credit/No Credit

GERO 200.  Adaptation To Age Related Changes, Illnesses and Caregiving.  3 Units  
Term Typically Offered: Fall, Spring  
Exposure to and analysis of positive and negative functional consequences arising from age related changes and illnesses in elders. Content elucidates changes and their effects on elders’ levels of wellness using interdisciplinary research and holistic, life course frameworks. Screening assessments, interventions, community resources and services, and ethical issues are addressed for each topic. Caregiving issues and solutions are explored within life span and problem solving frameworks.

GERO 221.  Strategies for Optimal Aging.  3 Units  
Term Typically Offered: Fall, Spring  
This course is an in-depth, interdisciplinary, and holistic exploration of health promotion and adaptation paradigms that facilitate optimal and productive longevity. Hardiness and self-efficacy theories along with expectations and experiences enhancing quality of life are explored. Interactions among such variables as activity, diet, exercise, work/leisure, attitudes/beliefs, humor, living environments, spirituality, and social networks are investigated within the contexts of gender, economic, and cultural perspectives.

Cross listed: GERO 121
GERO 222. Interprofessional Approaches to Health Care in Older Adults. 3 Units
Term Typically Offered: Fall, Spring

This course examines prevalent health issues commonly experienced by older adults. The course utilizes an interprofessional evidence-based approach to address the impact of chronic illness and related issues on older adults, their families, and caregivers. The focus of this course is on health promotion and includes holistic therapies and ethical issues that arise in late-life care.

GERO 225. Moving Toward Equity in California Aging Policy & Practice. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course examines California’s programs, services, and funding streams that support low-income older adults and persons with disabilities. Students will be introduced to California’s innovative Master Plan for Aging with its focus on equity, parity, and access. Using analytical, evaluative and leadership skills, students mentor GERO 125 students to address policy and program needs of vulnerable constituencies. This course will inform a new and diverse workforce prepared to engage underserved communities, including BIPOC, Latinx, API, and LGBTQ+.

GERO 295. Internship/Project. 3 Units
Prerequisite(s): GERO 200, GERO 221, GERO 222.
Term Typically Offered: Fall, Spring

Supervised fieldwork internship or project that is a culminating experience and applies learned gerontological theories and concepts in a community setting where planning, developing, or delivering services to older adults or their families occurs. Students choose an area of practice and negotiate their learning experiences or project with their faculty advisor and field supervisor. Advanced approval of project goal and objectives by program director are required.
Credit/No Credit

GERO 299. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Independent research, project, or directed reading. Open to students who are capable of independent work. A maximum of 3 units may count toward elective major requirements. Advanced approval of project goal and objectives by program director.
Credit/No Credit

Graphic Design (GPHD)

GPHD 5. Introduction to Graphic Design. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Introduction to the field of Graphic Design. Subjects include career possibilities, current trends, issues and practices in the industry. The basic theory, techniques and practices involved in solving a visual communication problem will also be introduced.

GPHD 10. Introduction to Digital Design. 3 Units
Term Typically Offered: Spring only

Designed to familiarize students with basic understanding of the digital hardware, software, and vocabulary utilized by visual artists from a variety of disciplines. Discussions and activities will cover both creative and efficient application of digital tools and techniques. Students will complete assignments utilizing a variety of applications which may include page layout, illustration, digital image processing, and 3-D rendering software.

GPHD 20. History Of Graphic Design. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Overview of the history of graphic design. Emphasis on symbol, type, and image development, from early pictographs to modern communication design.

GPHD 25. Visual Basics. 3 Units
Prerequisite(s): ART 20A or Pre - Interior Design Major.
Term Typically Offered: Fall, Spring

Provides a basic understanding of how visual structures are created and interpreted. Students study the main components of visual structures, become familiar with basic laws of color, and learn the basics of the gestalt principles of visual organization.

GPHD 30. Visual Basics II. 5 Units
Prerequisite(s): GPHD 25
Term Typically Offered: Fall, Spring

Introduction to the tools, materials and methodologies of the creative process in graphic design. Students study the main components of visual structures, become familiar with basic laws of color, and learn the basic principles of visual organization. The skill of rapid prototyping, through the processes of idea development, thumbnailing, sketching, and mockup, will be covered. Basic concepts in visual systems and graphic message making will be introduced. A special emphasis will be placed on craftsmanship in this course.

GPHD 120. Typography I. 5 Units
Prerequisite(s): DSGN 4, INTD 20, INTD 25, PHOT 20, PHOT 11, GPHD 5, GPHD 20, GPHD 25, GPHD 30, and acceptance into the major via supplemental application.
Corequisite(s): GPHD 125 Fee course.
Term Typically Offered: Fall, Spring

Explores the history and perceptual development of typography and its application in design solutions. Theoretical constructs of typography as they relate to legibility, clarity, composition and output will be addressed. Techniques using compositional layout applications will be covered with an emphasis in typographic accuracy and efficiency as well as preparation of digital files for proper output in a variety of digital and analog formats.
Fee course.
GPHD 122. Design Production and Management. 3 Units
Prerequisite(s): GPHD 5 or GPHD 20, and ART 20A, PHOT 40, GPHD 10, GPHD 20, GPHD 25, GPHD 30, and be a declared GPHD major.
Corequisite(s): GPHD 120, GPHD 125.
Term Typically Offered: Fall only

Introduction to project management techniques specific to the creative business and technical processes for graphic design. Orchestration of image editing, vector and compositing software will be covered with an emphasis in accuracy and efficiency. Various codes and regulations related to graphic design will be reviewed.

GPHD 125. Graphic Design Systems I. 5 Units
Prerequisite(s): DSGN 4, GPHD 5, GPHD 20, GPHD 25, GPHD 30, INTD 20, INTD 25, PHOT 11, PHOT 20, and acceptance into the major via supplemental application.
Corequisite(s): GPHD 120 Fee course.
Term Typically Offered: Fall, Spring

Introduction to the language and perception of design as it is applied to systems. Complex visual structures are created, used in composition and interpreted. Techniques on ideation, design thinking, storyboarding and presentation are covered. Color theory as an integral component of message is addressed. Introduction to project management techniques specific to the creative business and technical processes for graphic design.
Fee course.

GPHD 130. Typography II. 5 Units
Prerequisite(s): GPHD 120, GPHD 125.
Corequisite(s): GPHD 135. Fee course.
Term Typically Offered: Fall, Spring

Advanced typography and its relationship with message. Application of typographic principles to a diverse series of graphic design problems utilizing type and image. Techniques in using a range of digital tools to execute solutions are reviewed.
Fee course.

GPHD 135. User Interface Design. 5 Units
Prerequisite(s): GPHD 120, GPHD 125
Corequisite(s): GPHD 130
Term Typically Offered: Spring only

Emphasis is on design of a user-centered experience in an interactive environment. Enables the students to understand the characteristics of relevant technology and select appropriate forms and functions to create specific experience for users. Introduction to formative research techniques to establish context and audience and summative research to determine success of screen based design solutions.

GPHD 140. User Experience Design. 5 Units
Prerequisite(s): GPHD 130, GPHD 135
Corequisite(s): GPHD 145
Term Typically Offered: Fall, Spring

Emphasis on the development of conceptual themes, formal exploration, and user-centered interaction in time-based design. Enables the students to create vital experiences using text, sound, image, motion, and interactivity. The ability to compile, use, and defend relevant formative and summative research in creation of an appropriate design solution will be covered.

GPHD 142. Advanced Graphic Design I. 3 Units
Prerequisite(s): GPHD 130, GPHD 135.
Corequisite(s): GPHD 140, GPHD 145.
Term Typically Offered: Fall, Spring

Builds on established research, process and project management techniques and provides students with the opportunity to focus on a practical investigation in design. Theoretical, professional, and historical issues facing the design profession will be reviewed. Development of both visual and written research material will culminate in an oral presentation and then be applied to an appropriate project.

GPHD 145. Typography II. 5 Units
Prerequisite(s): GPHD 130, GPHD 135.
Corequisite(s): GPHD 140 Fee course.
Term Typically Offered: Fall, Spring

Builds on established research, process, and project management techniques and provides students with the opportunity to focus on a practical investigation in design. Development of both visual and written research material will culminate in an oral presentation and then be applied to an appropriate project. Semiotics as applied to advanced design problems will be discussed. Image making will be stressed in this course as students experiment with techniques and media including, but not limited to, photography and illustration.
Fee course.

GPHD 150. Professional Practice. 5 Units
Prerequisite(s): GPHD 140, GPHD 145.
Corequisite(s): GPHD 155.
Term Typically Offered: Fall, Spring

Introduction to the concepts and tools used to present credentials for entry into practice or advanced study. Development of the graphic design portfolio and communications package. Discussions will cover such topics as networking, interview tips, employment issues, and presentation skills. Projects refine the student’s individual design process and advance their understanding of professional practice. Professional, business, and ethical issues facing the design profession will be reviewed. Development of visual presentations, written material, and oral presentations will be required.

GPHD 152. Advanced Graphic Design II. 3 Units
Prerequisite(s): GPHD 140, GPHD 142, GPHD 145.
Corequisite(s): GPHD 150, GPHD 155.
Term Typically Offered: Fall, Spring

Advanced course in graphic design that requires students to provide solutions to real world design problems. Helps refine the students individual design process and advance their understanding of professional practice. Professional, business, and ethical issues facing the design profession will be reviewed. Development of both visual and written material will be required in a group environment as well as oral and visual presentations of this material.
GPHD 155. Graphic Design Systems II. 5 Units
Prerequisite(s): GPHD 140, GPHD 145.
Corequisite(s): GPHD 150 Fee course.
Term Typically Offered: Fall, Spring

Advanced study of visual systems as applied to branding and wayfinding. Construction of visual systems for an expansive multi-dimensional design solutions will be covered. Introduction to methods, techniques, and approaches of emotion-driven brand development. Application of syntactic, semantic, and pragmatic aspects of pictorial design systems to wayfinding system development. Exploration of the interplay between environmental conditions and human culture impact decisions in wayfinding system development.

Fee course.

GPHD 195. Fieldwork in Graphic Design. 3 Units
Prerequisite(s): Upper division status; GPA of 2.5 or above; GPHD 130, GPHD 135; instructor permission.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved business, government, or service agency. Internships are offered to increase student understanding of the nature and scope of agency operations and giving students orientation in occupational specialties. Supervision is provided by authorized persons in the cooperating agencies and collaborative supervision is provided by the Graphic Design faculty. Minimum of three hours per week per unit of credit is required. Each student maintains a record of activities and assignments and prepares periodic reports.

Note: Students must make arrangements with a faculty member for a work program prior to admittance. No more than 6 units of GPHD 195 may be counted toward the major.

Credit/No Credit

GPHD 196. Introduction to Human Centered Design. 3 Units
Term Typically Offered: Summer only

Introduction to the planning, development, and implementation of innovative tools and services informed by the human perspective. Emphasis on design thinking frameworks and tools used to develop solutions by including participatory action research. Techniques on empathizing with users, defining problems, ideating and prototyping solutions, testing, and iterating are covered. Importance of product accessibility and usability is addressed.

GPHD 196B. Techniques in Visual Production and Translation. 3 Units
Prerequisite(s): GPHD 125
Term Typically Offered: Fall, Spring, Summer

Teaches students analog and digital techniques and tools to enable them to apply existing drawing skills to create professional quality visuals and graphics. Students will learn how to create and convert analog visuals (drawings, paintings, etc.) to digital mediums, while exploring ways for applying traditional techniques to new digital interfaces (styluses, tablets, etc.). Class outcomes will enable them to apply a full range of graphic techniques to their existing work as designers.

GPHD 196C. Advanced Graphic Systems Design. 3 Units
Prerequisite(s): GPHD 125
Term Typically Offered: Fall, Spring

This course teaches students to analyze, critique, and create complex visual systems. Each semester the class will design a pair of complex visual systems and analyze the relationship between the characteristics of their constituent parts. Possible subjects for the course include, but are not limited to the design of: typefaces, books, and playing cards. Class outcomes will include a greater understanding and visual sensitivity to the properties that influence the creation of graphic systems.

GPHD 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed projects open to students who wish to attempt independent work.

Note: Faculty approval is required. No more than 6 units of GPHD 199 may be counted toward a Graphic Design degree.

Credit/No Credit

Greek (GREK)

GREK 1A. Elementary Ancient Greek. 4 Units
Term Typically Offered: Fall, Spring

GREK 1B. Elementary Ancient Greek. 4 Units
Term Typically Offered: Fall, Spring

GREK 6A. Elementary Modern Greek. 4 Units
Term Typically Offered: Fall, Spring

Designed to prepare students to read, speak, and understand Modern Greek. Focuses on the study of grammar and vocabulary, as well as the reading of adapted passages. Classroom time will be spent on drills and on elementary dialogues among the students and between the students and the instructor. These drills simulate everyday life situations. No previous exposure to the language is required.

GREK 6B. Elementary Modern Greek. 4 Units
Prerequisite(s): GREK 6A.

General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

A continuation of GREK 6A, emphasizing the further development of skills in reading, speaking, and understanding Modern Greek. Reading selections from newspapers and other contemporary sources. Further classroom dialogues among students and between students and the teacher.

GREK 199. Special Problems in Greek. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed readings.

Note: Open only to students who appear competent to carry on independent study; admission requires the approval of the instructor by whom the work is to be supervised.

Credit/No Credit
Health and Human Services (HHS)

HHS 21. First Year Seminar for Health and Human Services Careers: "Becoming an Educated Person." 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

New students are faced with many challenges - making new social connections, maintaining high GPAs, and learning independence. HHS 21 provides insight to the wide range of careers in the health and human service fields, and introduces students to the meaning of higher education, the resources of the University, and skills for lifelong learning. Students will develop academic success strategies, and improve information literacy, intercultural competence, and integrative thinking. The seminar is a foundation for academic and personal support.

HHS 100. Introduction to Health Science. 3 Units
Prerequisite(s): Health Science Majors or Instructor Permission
Term Typically Offered: Fall, Spring, Summer

HHS 100 is an introduction to health science, an exploration of theoretical and practical issues, exposure to professional organizations and resources, and pathways to a variety of career options. It is also designed to engage students in critical thinking, problem solving, and discourse relevant to emerging trends in the health care industry as well as applications of the latest research.

HHS 101. Interprofessional Education: A Collaborative Team-Based Learning Approach. 3 Units
Term Typically Offered: Fall, Spring

This course introduces the foundations of interprofessional collaborative practice. Students will engage in self-directed learning with other disciplines through the exploration of values and ethics for interprofessional practice, roles and responsibilities of health care providers, interprofessional communication strategies, and the development of high functioning teams in health care. The course includes a clinical/practicum component; it teaches students to support clients with chronic conditions while working with an interprofessional teams at the CHHS on-campus Interprofessional Stroke Recovery Resource and Community Center.

HHS 160. Senior Seminar: Health Science Careers, Policy, and Research. 3 Units
Prerequisite(s): PUBH 114, PUBH 122 and Health Science major or instructor permission.
Term Typically Offered: Fall, Spring

This capstone course provides an overview of professional opportunities in health science. The course will explore the types of roles and opportunities in health professions, broader public and private health systems, and why it is important to have a comprehensive and interdisciplinary understanding of health science. As a capstone experience, the course must be taken during the final semester of the student's plan of study.

HHS 196A. Law+The Human Services. 3 Units
Term Typically Offered: Fall, Spring

HHS 196N. Pop-Up History. 1 Unit
Term Typically Offered: Fall, Spring, Summer

Exploration of a pre-determined special historical topic using multidisciplinary approaches in an abbreviated 5-week mini-seminar format. Topics will vary.

HHS 196Y. Youth Recreation in Camp Settings. 1 - 3 Units
Term Typically Offered: Summer only

This course examines camp programs in a wide variety of settings, for a variety of populations. Topics cover camp theories, camp management, risk-management, activity planning, inclusive programming, and staff training. Includes an emphasis on leadership, supervision, and organizational development of camp programs. Course uses lecture, field experiences, guest speakers, and service learning.

Note: Students should be aware that Camp Nej, which is the associated camp for this course, is in a remote, wilderness setting; students will stay on-site while the camp is in session.

HHS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring, Summer

Individual projects or directed study related to Health and Human Services.

Note: Open to students judged capable of carrying out individual work. Approval and sponsorship of a supervising faculty member required for admission. May be repeated.

Credit/No Credit

Health Science (HLSC)

HLSC 222. Health Communication Strategies. 3 Units
Prerequisite(s): Master of Public Health major or instructor permission.
Term Typically Offered: Fall only

Provides students with knowledge and understanding of health communication theory and research. Students will examine the effects of media, including mass media, social media, and participatory media, in promoting or impeding public health goals and achievements. This course emphasizes the importance of public engagement and the development of effective communication with public health stakeholders including consumers, community goals, policy makers, health care providers, news media, and the general public.

HLSC 224. Program Planning. 3 Units
Prerequisite(s): Master of Public Health majors or instructor permission and HLSC 201
Term Typically Offered: Fall only

Covers the elements needed for successfully planning and implementing a health promotion program including the application of health behavior theory and program planning models. Students will apply concepts of social and physical determinants of health, community structure on health status, social/health policies of communities and personal health behaviors in program planning design and implementation.
HLSC 295. Seminar and Practicum Experience. 3 Units
Prerequisite(s): Master of Public Health or instructor permission
Term Typically Offered: Spring only

Provides students with in-depth supervised experience in an approved organization during their graduating semester. The practicum will require students to complete an applied practice experience related to a public health issue that is a focus within the organization. Seminars will discuss and review the integration of core public health concepts with the practicum. Students will create materials that demonstrate the analysis, synthesis, and intersection of course work and practicum work, while demonstrating mastery of the broad field of public health. Field Trip. Credit/No Credit
Field trip(s) may be required.

History (HIST)

HIST 4. Survey of Early Western Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of the earliest civilizations with emphasis on the contributions of the Hellenic, Roman and the Medieval eras to the West. Continues to the close of the Middle Ages. Stress is placed on social, economic, as well as political factors.

HIST 5. Survey of Modern Western Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of the development of western civilization from the Renaissance to the present day. Stress is placed on social and economic, as well as political, factors.

Note: Not open for credit to students receiving prior credit in HIST 105.

HIST 6. Asian Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to major developments in the histories and cultures of China, Japan, and India – origins of civilizations, great empires, religions, growth and spread of cultures, alien invasions, Western impact, nationalist movements, modernization, and characteristics of contemporary society.

HIST 7. History of African Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introductory survey of the history of Africa from earliest times to the present. Major topics include: origins of humanity and society, civilizations of the Nile Valley, the peopling of Sub-Saharan Africa, African societies to 1500, pre-colonial Saharan and Sub-Saharan Africa, Colonial Africa and the emergence of modern states in Africa.

HIST 8. Islam and the West. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introductory survey of basic events, themes, issues, and concepts in Islamic history from the rise of Islam to the present, with emphasis on the encounters and exchanges between the Islamic world and the "West" (Europe and the United States). Topics include: The similarities between Islam, Judaism and Christianity; the religious, political, social, and cultural developments in the Islamic world and their impact on western civilization; colonialism; nationalism; religious revivalism; and revolutionary movements.

HIST 9. What We Ate: A Global History of Food. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A historical examination of the political, economic, and cultural transformations involved in food production and consumption since 1500. Emphasis on important food networks between South Asia and the Middle East, the role of addictive products in the rise of European trade empires, the emergence of national cuisines across the Atlantic and Pacific rims, and the varied responses to modern scientific and industrial farming.

HIST 10. History's Mysteries: Thinking Critically about the Past. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

From the builders of the Pyramids to the cause of the Holocaust: unlock mysteries of the past; apply historical thinking skills to answer compelling historical questions; sharpen reasoning and argumentative skills; evaluate historical evidence; learn to recognize scientific standards of historical investigation; hone college level writing skills. Topics vary based on instructor's expertise.

HIST 15H. Major Problems in U.S. History. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), United States History
Term Typically Offered: Fall, Spring

A survey of topics in American history from the colonial period to the end of the twentieth century. Subjects may include reform movements, immigration, racial problems, religion, politics and the role of women.

Note: Fulfills graduation requirement for U.S. History and Race and Ethnicity.

HIST 17A. United States History, 1607-1877. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D, United States History
Term Typically Offered: Fall, Spring

Basic historical survey of the rise of American civilization from colonial beginnings through the rebuilding of the union during Reconstruction.

Note: Fulfills state graduation requirement for U.S. History.

HIST 17B. United States History, 1877-Present. 3 Units
General Education Area/Graduation Requirement: GE AREA D, United States History, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Basic historical survey of the growth of urban-industrial American civilization and its rise to world power, 1877-present.

Note: Fulfills state graduation requirement for U.S. History.
HIST 17D. United States History Discussion Section. 1 Unit
Corequisite(s): Enrollment in a section of HIST 17A or HIST 17B
Term Typically Offered: Fall, Spring
A weekly discussion section to accompany enrollment in HIST 17A or 17B. Text discussions and presentations, reading and note-taking strategies, historical writing, primary source investigations.
Credit/No Credit

HIST 18. Health, Medicine, and Science in America, 1600-Present. 3 Units
General Education Area/Graduation Requirement: GE AREA D, United States History, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring
An examination of American medicine and science from the colonial era through the present from the perspective of people of color, immigrants, women, and LGBTQ+ people. This course investigates how different groups of Americans understood and experienced disease, illness, and disability; explores how diseases were racialized and gendered, how science was used to establish and reinforce racial inequalities, and how access to healthcare has been based upon race, class, gender, sexuality, and disability; and identifies health activism in social movements.

HIST 18B. Becoming America: Immigrants in American History, 1877-Present. 3 Units
General Education Area/Graduation Requirement: GE AREA D, United States History
Term Typically Offered: Fall, Spring
Survey of the growth of modern American society and its rise to world power, 1877-present, with emphases on the significant contributions and experiences of immigrants to American history.

HIST 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
Introduction to the nature of higher education, and the functions and resources of the University. Designed to help students develop academic success strategies and to improve learning skills. Students will interact with fellow students to build a community of academic and personal support. Introduces history as an academic discipline by requiring students to interpret historical information about issues such as academic freedom and the development of racism.

HIST 50. World History I: to 1500. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall
A comparative history of the world’s major civilizations that highlights human community’s increased level of connection. Explores the diverse global cultural, political, and economic patterns from the origins of complex societies to the birth of modern capitalism.

HIST 50H. World History I: to 1500. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only
Intensive comparative history of the world's major civilizations that highlights human community's increased level of connection. Explores the diverse global culture, political, and economic patterns from the origins of complex societies to the birth of modern capitalism.

HIST 51. World History from 1500 to the Present.. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
A survey of the increased inter-connections of the world's civilizations from the conquest of the Americas to the dawn of the 21st century. Explores the history of the human community's political development, culture diversity, and economic globalization.

HIST 51H. World History from 1500 to the Present. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only
An intensive survey of the increased inter-connections of the world's civilizations from the conquest of the Americas to the dawn of the 21st century. Explores the history of the human community's political development, cultural diversity, and economic globalization.

HIST 100. Introduction to Historical Skills.. 3 Units
Prerequisite(s): HIST 100
Term Typically Offered: Fall, Spring
Introduction to the skills of secondary and primary source research, critical analysis of documentary sources, historical reasoning and the preparation of written reports. Attention to research procedures, record-keeping, citation, and bibliography.
Note: Open to History majors who have completed at least 6 units of required lower division coursework. Recommended for second semester of sophomore year.

HIST 100R. Developing Historical Skills.. 3 Units
Prerequisite(s): HIST 100
Term Typically Offered: Fall, Spring
Further development of skills from HIST 100 in the areas of secondary and primary source research, critical analysis of documentary sources, and historical reasoning, ethics, and inquiry needed for the completion of an original research paper. Attention to research procedures and disciplinary writing and citation. Topic varies with instructor.

HIST 101A. Language and written culture in Ancient Greece. 3 Units
Term Typically Offered: Fall, Spring
This is part of the two-semester hybrid course on Ancient Greek language and written culture. The language component of the course is taught online through interactive language-teaching website, while the weekly meetings are mainly discussions on Ancient Greek texts in translation. The focus in this first part is on basic grammatical rules, the reading and construction of simple sentences, and the study of Greek written culture from its beginnings to the Classical Period.
Cross Listed: WLL 120A; only one may be counted for credit.

HIST 101B. Language and written culture in Ancient Greece. 3 Units
Prerequisite(s): HIST 101A
Term Typically Offered: Spring only
This is the second part of a two-semester hybrid course on Ancient Greek language and written culture. The language component of the course is taught online through an interactive language-teaching website, while the weekly meetings are mainly discussions on Ancient Greek texts in translation. The focus in this second part is on advanced grammar, the reading and understanding of long passages, and the study of Greek written culture from the Classical Period to the Roman era.
Cross Listed: WLL 120B; only one may be counted for credit.
HIST 102A. Culture and Language in Modern Greece, 1821-1909.  3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

This is the first part of a two-semester hybrid course on modern Greek language, history, and culture. This course is an introduction to the main cultural forces in history and literature that shape modern Greek society. It explores the historical development of modern Greek culture from the period of the Greek War of Independence to the present. Students will also obtain a basic level of modern Greek grammatical rules, the reading and writing of simple sentences, and basic everyday conversation skills.

HIST 102B. Culture and Language in Modern Greece, 1909-Present.  3 Units
Prerequisite(s): Student must complete HIST 102A with a minimum "C-" grade or better.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

This is the second part of a two-semester hybrid course on modern Greek language, history, and culture. This course is an introduction to the main cultural forces in history and literature that shape modern Greek society. It explores the historical development of modern Greek culture from the period of the Greek War of Independence to the present. Students will also obtain a basic level of modern Greek grammatical rules, the reading and writing of simple sentences, and basic everyday conversation skills.

HIST 103. Mediterranean Europe: From the Renaissance to the European Union.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Traces the development of Southern European countries from the Renaissance to European Union membership. These two "rebirths" for Europe had a unique impact on Portugal, Spain, Italy and Greece. Focuses on the political, economics, and cultural aspects of these Mediterranean countries.

HIST 104A. Ancient Science.  3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

An examination of the theories, experiments, and calculations of Greek and Roman scientists as well as the work of major contributors to astronomy, natural philosophy, medicine, and technology in the ancient period.

HIST 105. Great Ages and Issues in Modern European History.  3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Advanced analysis of topics in modern European history from the Renaissance to the present. Emphasis is placed upon primary sources and contemporary as well as historical interpretations of the sources.
Note: Not open for credit to students receiving prior credit in HIST 5.

HIST 106. Everyday Life and Society in Antiquity.  3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

An overview of social beliefs and practices in a variety of ancient cultures, including Ancient Greece, Rome, and the Near East chronologically ranging from Late Prehistory to the rise of Christianity. All the examined themes are approached comparatively and on the basis of ancient historical evidence, consisting of both texts and archaeological materials.

HIST 107. History of the Physical Sciences.  3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Study of the development of the major physical laws presently used in describing our physical world. Some considerations of the influences of these developments on other areas of knowledge and on society in general.
Cross Listed: PHSC 107; only one may be counted for credit.

HIST 108. Ancient Egypt: History & Culture.  3 Units
Term Typically Offered: Fall, Spring

Overview of the history of ancient Egypt from prehistory to the Roman conquest, combined with a study of cultural development in areas of ancient Egyptian religion, art, and literature.

HIST 109. History of Modern Greece.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduces the fundamental events and figures that shaped modern Greek history and politics. Topics will include: the Greek War of Independence, the Megali Idea, the Asia Minor Catastrophe, and Greece's entry into the European Union. No prior knowledge of Greece or Greek language assumed.

HIST 110. The Ancient Near East: A Cultural History.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Growth and development of Ancient Near Eastern civilization with emphasis on Mesopotamia and Egypt as the foundation of ancient Mediterranean civilization. Religion, literature, art and social institutions will all be stressed as integral elements in an historical process.

HIST 111. Ancient Greece.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Political, social, and cultural development of Greece from the Mycenaean to the post-Alexandrian world with emphasis on Fifth Century Athens and on a reading of Thucydides.

HIST 112. Ancient Rome.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Rome from its foundation to Justinian with emphasis on its political institutions, their strengths and weaknesses, social structure, the ancient economy, paganism and Christianity, and the end of ancient civilization.
HIST 113. Early Medieval Europe. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

The transformation of Mediterranean civilization from Late Antiquity to its three heirs: Western Europe, Byzantium and Islamic Civilization. Topics include: Late Antique Christianity, monasticism, economic and trade structures, Islamic conquests, Carolingian civilization, medieval archaeology and technology, and the origins of manorialism and feudalism.

HIST 114. Europe in the High Middle Ages. 3 Units
Term Typically Offered: Fall, Spring

Flourishing of European civilization from the Gregorian reform (11th century) until the end of the Middle Ages. Emphasizes the development of Latin Christianity, the formation of national communities in France and England, and the multi-faceted crisis of the 14th and 15th centuries.

HIST 115. The Renaissance and Reformation in Europe. 3 Units
Term Typically Offered: Fall, Spring

Survey of the development of Italian City States and their relation to Northern Europe; an examination of the relationship among commerce, capitalism and secular culture; a survey of Reformation and Counter-Reformation.

HIST 116. Europe, 1648-1815, The Age of Revolution. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Political and social survey of Europe with emphasis on (a) the scientific revolution and the Enlightenment, (b) absolute monarchs and enlightened despots, (c) the American and French Revolutions, (d) Napoleon I, and (e) art, society and popular culture.

HIST 117. Europe, 1815-1914. 3 Units
Term Typically Offered: Fall, Spring

Consideration of historical trends in 19th Century Europe. Emphasis on Germany and France. Attention is devoted to liberalism, conservatism and nationalism; the industrial revolution, national unification, nationalism, imperialism and the rise of socialism.

HIST 118A. World War I: Causes, Conduct, Consequences. 3 Units
Term Typically Offered: Fall, Spring

Political and social development of Europe from the beginning of the 20th Century to the accession of Hitler to power in 1933 with emphasis on relations among the Great Powers.

HIST 118B. World War II: Causes, Conduct, Consequences. 3 Units
Term Typically Offered: Fall, Spring

Critical examination of political, military, social, and cultural transformations in the era of the Second World War. Particular emphasis will be placed on diplomatic relations between the Great Powers, military conduct during the war, the experience of fascism, the causes and ramifications of the Holocaust, and the war's cultural and political legacy in Europe.

HIST 119. Europe Since 1945. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of major developments in Europe since the end of World War II. Topics include: the basic intellectual structures of the 20th century; the origins of the Cold War; the rise of the EEC; decolonization; the political and social upheaval of the 1960's; détente; and the new preoccupation with nationalism and ethnic identity.

HIST 120A. History of Medicine, Ancient and Medieval. 3 Units
Term Typically Offered: Fall only

History of ancient-medicinal medicine, the role of medicine in society, and attitudes toward illness and the body. Also covers alternative remedies such as magic and folk medicine. Primary focus on Greco-Roman medicine but also Sumerian, Egyptian, Christian and Islamic traditions.

HIST 121. Democracy and Human Rights in the Era of the French Revolution and Napoleon. 3 Units
Term Typically Offered: Fall, Spring

Explores the crucial social, cultural, intellectual, and political legacies of the Revolutionary and Napoleonic years (1789-1815) in France and across the globe. In particular, examines ideas and policies regarding religious toleration, democratic participation, slavery, gender, and nationalism.

HIST 122A. History of Women in Western Civilization, Prehistory-Present. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Emphasis on the lives and experiences of women as they relate to the fundamental characteristics of Western culture. Topics include women and religion, production and economic institutions, reproduction and family structures, power and politics, women's self-definition.

HIST 122B. History of Women in Western Civilization, Renaissance-Present. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Emphasis on the lives and experiences of women as they relate to fundamental characteristics of Western culture. Topics include women and industrialization, the modern state, the development of feminism, feminism and socialism, revolutionary and reactionary movements.

HIST 122C. Women's Global Activism in the 20th Century. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines the development of women's movements for sexual equality and social justice across the world during the twentieth century. Emphasis placed on women from the Global South and on transnational feminist organization.
HIST 123. The Crusades.  
Term Typically Offered: Fall only

The Crusading movement from the eleventh through the thirteenth centuries. Explores the eight "official" Crusades, and explores the concept of "crusading" as Christian Holy War. Extensively covers the intersection of Byzantine, Islamic, Catholic, and Jewish cultures in the Middle Ages, and incorporates religious, social, military, and political, history.

HIST 124A. Warfare: Alexander to Napoleon.  
Term Typically Offered: Fall, Spring

Conduct of war from 336 B.C. to 1815. Social and political consequences; development of weaponry, strategy and tactics; Great Captains.

HIST 124B. European Warfare from the French Revolution to the Present.  
Term Typically Offered: Fall, Spring

Study of the inception, conduct and impact of European warfare from the French Revolution to the present. Students will be required to complete one or more projects designed to increase their understanding of modern warfare and its implications.

HIST 125. Modern Germany, 1806-Present.  
Term Typically Offered: Fall, Spring

History of Germany from the fall of the Holy Roman Empire to the present. Topics will include the rise of German nationalism, the formation of the German nation-state, the Nazi era and the Holocaust, and postwar Germany's development.

HIST 126. Evolution of Christianity to the Reformation.  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring

Christianity from Jesus to Martin Luther. Emphasis on the evolution of Christian thought and institutions and the relationship of the Church to popular culture and secular powers. Cross Listed: HRS 126; only one may be counted for credit.

HIST 127. Evolution of Christianity Since the Reformation.  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Spring only

European Christianity from the Reformation to the present. Emphasis on the evolution of Christian thought, the co-existence of the Catholic and Protestant traditions, and the relationship of religious and secular values in European society. Cross Listed: HRS 127; only one may be counted for credit.

HIST 128A. Medieval England To 1485.  
Term Typically Offered: Fall only

Examines the developments of English history from the Celtic Bronze Age to the fifteenth century. Issues of race and ethnicity, gender, social classes, political ideology, religious toleration, economic developments, and artistic achievements will be examined in particular detail.

Term Typically Offered: Fall, Spring

History of England from the consolidation of royal power under Henry VII to the Hanoverian succession. Emphasis on the Tudor Renaissance and Reformation, the growth of England's international status under Elizabethan, Stuart rule, the Civil Wars, the dictatorship of Oliver Cromwell and the Restoration.

HIST 128C. British History, 1714-Present.  
Term Typically Offered: Fall, Spring

History of the British Isles from Hanoverians to the Present. Emphasis upon the rise of Parliament, industrialization, reform, rise of labor, the two World Wars, the Welfare State and contemporary Britain.

HIST 129A. Medieval Russia.  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring

Emergence of modern Russia from the principalities of medieval Russia. Emphasis on Eastern European, Byzantine, and Eurasian contributions to Russian history.

HIST 129B. Imperial Russia.  
Term Typically Offered: Fall, Spring

Emergence and collapse of imperial Russia as a continental world power from 1600 to 1917. Emphasis on the role of monarchy, a changing society and economy, and the growth of the educated public in the development of a distinctive imperial Russian culture and its final destruction in revolution.

HIST 129C. Twentieth Century Russia.  
Term Typically Offered: Fall, Spring

Revolutionary origins of the Soviet Union, its rise as a global superpower, and its sudden dissolution. Emphasis on the major political, economic, social, and cultural trends that defined Soviet civilization, as well as the Soviet legacy for contemporary Russia and the world.

HIST 129D. A Cultural History of Russia.  
General Education Area/Graduation Requirement: Arts (Area C1)  
Term Typically Offered: Fall, Spring

A historical survey of cultural expression in Russia. Emphasis on the changing role of elite and popular institutions as patrons and audiences, the definition of Russian culture through the canonization of content and form, and the relationship between politics and society as expressed in a variety of genres and media such as the visual arts, literature, music, and film.

HIST 130. The Fall Of Communism.  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall, Spring

Causes and consequences of the dramatic transformations in the political, economic, and cultural life of the Soviet Union, eastern Europe, and China after 1970. Topics include "real-existing" socialism, Gorbachev and the revolutions of 1989, the emergence of China, impact on the non-socialist world, and implications for the future.

HIST 131. History of Sexuality in Comparative Perspective.  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall, Spring

Survey of the comparative history of sexuality in the pre-modern and modern world (including the United States and Europe). Topics include the intersections of gender, sexuality, race, and social status across societies and time periods; religion and sexual norms; sex, sexuality and the rise of the nation-state; sex and imperialism; and sexuality and the law.
HIST 132. Topics In World History. 3 Units
Prerequisite(s): HIST 50.
Term Typically Offered: Fall, Spring

Designed for students who want to acquire multiple subject teaching credentials. Examines world history from a topical perspective, focusing on large themes and trends. Builds upon the detailed history taught in the HIST 50.

HIST 133. Twentieth-Century World History. 3 Units
Prerequisite(s): HIST 51 or HIST 51H
Term Typically Offered: Spring only

A survey of the major international themes and historical processes that shaped the twentieth century. Designed for History majors and present or prospective teachers of history.

HIST 134. The Rise and Fall of European Colonial Empires. 3 Units
Term Typically Offered: Fall, Spring

This course covers the origins of European colonialism in the Iberian expansion, the development of English and Dutch empires, the role of spices, slaves, sugar, and opium in the making of the modern global economy, the "New Imperialism" of the 19th Century, the anti-colonialist and nationalist movements, and the final collapse of the empires after World War II.

HIST 135A. History Of Mexico To 1910. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Emphasizes Meso-American culture, the creation and flourishing of Spanish colonial culture, the independence movements, and the trials and tribulations of nationhood in the 19th century.

HIST 135B. Revolutionary and Modern Mexico. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Political, social, economic and cultural history of the Mexican upheaval, from 1910 to 1920, and the development of Modern Mexico since 1920.

HIST 136. Spanish Civil War. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

In-depth examination of the Spanish Civil War (1936-1939) focusing on its social, political, and cultural contexts. The course also examines the war's historical origins, immediate aftermath and implications for understanding modern Spain. Cross listed: SPAN 129.

HIST 137A. Latin American Revolutions in the Twentieth Century. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only

Comparative analysis of twentieth-century Latin American revolutions. Considers economic and political causes, revolutionary aims, and historical outcomes.

HIST 137B. Latin American History in Film. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only

An analysis of films representing Latin American history from conquest through present.

HIST 138A. Colonial Latin America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Survey course in the history of Latin America from the late fifteenth century to the early nineteenth century.

HIST 138B. Modern and Contemporary Latin America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Survey course in the history of Latin America from the early nineteenth century to the present.

HIST 139A. Global Environmental History in the Age of Imperialism, 1450-Present Day. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only

Study of global environmental history, from before the Columbian Exchange to the present-day. Focus on world patterns in environmental history, including imperial expansion, economic growth, exploitation of natural resources, and epidemics, among other topics. Also consideration of how humans around the world constructed their environments both physically and socially.

HIST 140. Modern East Asian Cinema. 3 Units
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey of the development of cinema in Asia, focusing primarily on cinematic masterpieces from China, Hong Kong, and Japan. Focuses on directors, actors, and studios that left a lasting mark on cinema history. Also focuses on how Asian aesthetic sense differs from the Hollywood norm. Prerequisite: GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X. Cross listed: ASIA 140; only one may count for credit.

HIST 141. History of Africa Since 1800. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

European control in Africa, African primary resistance and proto-nationalist movements, decolonization and post-independence, nation-building to present.
Examine the role of African women in politics, religion, the economy, and the arts from ancient times to the present. Considers the varying status of women in different regions of the continent. Also looks at the impact of kinship structures on women, development issues, and African responses to feminist discourse.

HIST 143A. Middle Eastern History to 1800. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only
Surveys the history of the Muslim Middle East from the age of the Prophet Mohammed to the late Ottoman Empire. Topics include: the Islamic religious revolution; the splintering of the Islamic community into Sunnis, Shias and other Islamic minorities; the impact of Islam upon the European West; the Crusades; and Western influence at the end of the 18th century.

HIST 143B. The Modern Middle East. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only
Surveys Middle Eastern history from 1800 to the present. Topics include: the late Ottoman Empire; World War I and state creation; western imperialism; Arab nationalism; Zionism; state building; modern economies and traditional societies; Islam and the modern state; and the Arab-Israeli conflict.

HIST 143C. Ottoman State and Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Overview of the history of the Ottoman Empire from its rise in the 13th century to its demise in the early 20th century. Topics include Ottoman state structure, military, economy, legal system, society, culture, and legacy.

HIST 143D. The Arab-Israeli Conflict. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only
Overview of the origins, evolution, and implications of the ongoing Arab-Israeli conflict. Focus will be on the role of external and internal factors in the emergence and escalation of the conflict, the opposing claims over Palestine, and the impact of the conflict on different groups in the region. Topics include colonialism, transition from empire to nation state, Jewish and Arab nationalism, secularism, the Cold War, religious revivalism, and identity.

HIST 144. Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder. 3 Units
Term Typically Offered: Fall, Spring
Examines the domestic and international political, social, and economic context of the overthrow of Indonesian President Sukarno, the mass murder of perhaps a million individuals associated with the Indonesian Communist Party, and subsequent US-backed military dictatorship of General Suharto.

HIST 145. South Asian History & Civilization. 3 Units
Term Typically Offered: Fall, Spring
South Asian history from the Indus Valley Civilization to the 1947 partition of British India into the nation-states of India and Pakistan. Topics include: development of Hinduism, Buddhism, Jainism, and Sikhism; rise and fall of the Mauryan, Mughal, and British empires; Indian philosophy, art, literature; South Asian expressions of Islam, Judaism, and Christianity; elite and popular religious syncretism; gender and sexuality in South Asia; Portuguese and British colonialism; South Asian nationalism; and the life and thought of Mahatma Gandhi.

HIST 146A. Cultural History of Japan to 1800. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only
History of traditional Japan stressing developments in literature, drama, art, religion and philosophy in the context of political, social and economic development. Movies, slides and readings in Japanese literature will be used.

HIST 146B. Modern Japan, 1800-present. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only
Roots of modernization in late feudal Japan; Western impact; political, economic and social modernization; the growth and decline of democratic institutions; militarism and World War II; U.S. occupation; and Japan’s impressive “success story” 1950-present.

HIST 146C. The History of Manga. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
A survey of the history of manga (Japanese graphic novels) that will trace the historical antecedents of manga from ancient Japan to today. The course will focus on major artists, genres, and works of manga produced in Japan and translated into English.

HIST 146D. A History of Anime. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only
A survey of the history of anime (Japanese animation) that will trace the historical antecedents of anime from the birth of cinema to today, with a focus on major artists, genres, and works of animation produced in Japan.

HIST 147. History of Buddhism. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Examines in cultural and historical perspective, drawing from ancient and contemporary sources, the key practices and ideas of Buddhist traditions in India, China, Southeast Asia, Tibet, Japan and other surrounding regions; as well as the most recent spread of these practices and ideas to Europe, North America, and Australia. Cross listed: HRS 147
HIST 148A. China: Antiquity to 1600 AD. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Historical development of China from the Neolithic period to the end of the 16th Century. In addition to texts and records, other sources such as archaeology, literature, and art will be examined to gain understanding of and appreciation for the longevity of China as a culture and a polity. Traditionally neglected groups such as women and the lower classes will be emphasized.

HIST 148B. China, 1600 to Present. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

The transformation of China since the 17th Century. Examines the internal tensions of population growth and social unrest, as well as external pressures of encroaching imperialism and modern values of freedom and democracy. Revolution, communism, modernization, and nationalism will be addressed.

HIST 149. The Making of Modern Southeast Asia. 3 Units
Term Typically Offered: Fall, Spring

Examines the historical formation of Southeast Asia, how European colonization integrated Southeast Asia into the global economic order, and how the region became a critical strategic zone in the Second World War and the Cold War. Traces the centuries long formation of nations of Southeast Asia, the second half will focus on political and economics developments of the 20th Century.

HIST 150. Colonial America. 3 Units
Term Typically Offered: Fall, Spring

Development of the British mainland colonies from exploration, contact, and settlement to the age of the American Revolution. Topics include: background to colonization; mercantilism, the emergence of a multicultural society; regional variation; Native Americans, slavery, women and family, community formation, religion, education, Enlightenment in America, European rivalries, imperialism.

HIST 150B. Early American Book History. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A history of authorship, reading, and publishing in colonial American life; this course explores seventeenth and eighteenth century British North America where the spoken and printed word played an important part in the development of America before 1800.

HIST 151. The Age of the American Revolution. 3 Units
Term Typically Offered: Fall, Spring

Causes and consequences of the American Revolution. Topics include: Whig ideology, popular politics, loyalism, economic concerns, the western frontier, Native Americans, African-Americans, and women during the era, the course of the war with Great Britain, the Confederation and Constitution, social consequences of the Revolution.

HIST 151B. Founding Documents: American Democracy before 1800. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Explores the history behind the words of the Declaration of Independence and the Constitution of the United States of America. Topics include early American history, the American Revolution, and the Constitutional Convention of 1787.

HIST 152. Young Republic, 1790-1840. 3 Units
Term Typically Offered: Fall, Spring

Beginnings of government under the Constitution; the U.S. in a warring world; Thomas Jefferson and Andrew Jackson; market economy, canals and factories; nationalism, the debate over slavery, and emerging sectionalism.

HIST 153. Civil War and Reconstruction, 1840-1890. 3 Units
Term Typically Offered: Fall, Spring

Political history of the Civil War and Reconstruction. Topics include sectionalism; slavery, westward expansion, secession, the conduct of the war, industrialization, and the changing status of African Americans.

HIST 154. 20th Century United States, 1890-1940. 3 Units
Term Typically Offered: Fall, Spring

U.S. response to urban, industrial growth from the origin of the Spanish-American War to Franklin D. Roosevelt. Progressivism, Imperialism, World War I, the decade of the 1920's; Depression and the New Deal.

HIST 155. 20th Century United States, 1941-Present. 3 Units
Term Typically Offered: Fall, Spring

Social, economic, and cultural challenges and achievements in U.S. life as they are reflected in political history. Emphasis upon domestic affairs, supplemented by foreign concerns that have presented fundamental choices to the American people.

HIST 156. The Sixties: Years of Hope, Days of Rage. 3 Units
Prerequisite(s): HIST17B
Term Typically Offered: Fall, Spring

Examines the key events and ideas that helped shape American politics and culture in the 1960s. Special emphasis placed on political power, race and racism, the role of dissent and social activism, and nonviolent civil disobedience. Covers the Vietnam War, the African-American Civil Rights movement, the Chicano movement, the women's movement, the counterculture, as well as social conflict and its resolution.

HIST 157. History of International Relations in the 20th Century. 3 Units
Term Typically Offered: Fall, Spring

Survey of the history of international relations (political, military, economic, cultural, and environmental) in the 20th century. Covers Europe, Asia, the Middle East, Africa, and the Americas, with emphasis on global events and issues from non-U.S. perspectives.

HIST 158. Military History of the United States. 3 Units
Term Typically Offered: Fall, Spring

Survey from the colonial militia to the present, including all military branches, with emphasis on the U.S. Army. In addition to doctrine, operations, weapons and warfare, focuses on the interrelationship of the military with the economic, social and political concerns of the American nation.
HIST 159. History of US Foreign Relations. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D
Term Typically Offered: Fall, Spring
Diplomatic, military, economic, and cultural relations between the U.S. and the world from 1789 to the present, with emphasis on the 20th Century; focus on transformation of U.S. into a global power.

HIST 160. The United States in Vietnam, 1940-1975. 3 Units
Term Typically Offered: Fall, Spring
Case study of the making of foreign policy through seven presidencies. Identifies the causes of an American war in Vietnam and examines that involvement as a representative example of post-World War II U.S. globalism. Consideration of the domestic impact of the War and a critical examination of the "lessons" learned from it.

HIST 161. The American Vision. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D
Term Typically Offered: Fall, Spring
Media survey of American life from the beginnings to the present. Integrates slides of American art, architecture, popular culture, and technology with history, literature and contemporary music.

HIST 162. Social History of the United States. 3 Units
General Education Area/Graduation Requirement: GE AREA D, United States History
Term Typically Offered: Fall, Spring
Survey of topics in American social history from the colonial period to the middle of the Twentieth Century. Subjects may include reform movements, immigration, racial problems, religion, medicine, and the role of women.

HIST 163. The City in US History. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Role of the city in the American experience, with emphasis on the rapid urbanization of the 19th and 20th centuries. Attention given to the attractions and problems of urban life and to proposals for reforming the cities.

HIST 164. History of American Capitalism. 3 Units
Term Typically Offered: Fall, Spring
Survey of U.S. business from the colonial era to the present that places U.S. business in a global context. Examines how individual entrepreneurs and regulators have contributed to the development of the modern American political economy.

HIST 165. American Environmental History. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Traces the changing relationship between human society and the natural environment from pre-colonial era to the present. Focuses on the interplay between industrialization and nature, and examines past and present environmental movements.

HIST 166. Popular Culture. 3 Units
Term Typically Offered: Fall, Spring
Focuses on entertainment and everyday life in America from the beginnings to the present. Enhances the students’ understanding of how popular culture reflects and shapes the larger issues and institutions of American life.

HIST 167. History of American Women. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D
Term Typically Offered: Fall, Spring
Study of the role of women throughout American history with emphasis on the suffrage movement, abolitionism, and birth control. Considers the emancipation of women and their role in contemporary society.

HIST 168. Images Of America. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring
Interdisciplinary survey of major events, trends and figures in American history viewed through American literature, visual arts, music and architecture. The arts in America are studied in relation to major ideas, significant personalities and important historical events from the period of the early republic to the present.

HIST 169. Hollywood and America. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Chronological survey of American films and their cultural significance from the 1890’s to the present. Focus on films produced in Hollywood, the contexts in which they were created, and the impact of Hollywood as a mythical place in the development of American culture.

HIST 170A. Sports in American History. 3 Units
Explores the significance of sports in American history from the colonial era to the present. Examines how the social, cultural, and economic role of sports in the American experience intersects with race, class, gender, immigration, citizenship, and nationality. Considers the wide-ranging articulations of popular sports in the public imaginary throughout the 20th century.
HIST 171A. American Indian History to 1840. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

History of North American native people from before the European invasion to 1840. Particular attention given to the formation of indigenous societies before and during European colonization of the Americas and to the experience of Indian cultures, societies, and nations in the early U.S.

HIST 171B. American Indian History since 1840. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

History of North American native people from 1840 to the present. Particular attention given to Indian nations' engagement with the Indian policies of the United States and the persistence and adaptation of American Indian cultures, societies, and identities in the modern U.S.

HIST 172A. LGBTQ Histories. 3 Units
Term Typically Offered: Spring only

This course provides an introduction to the study of lesbian, gay, bisexual, transgender, and queer (LGBTQ) histories. Uses an interdisciplinary and comparative approach to explore the historical emergence and development of LGBTQ identities, communities, and political movements. Includes theoretical analysis of the history of gender and sexuality and the practice of historical analysis.

HIST 172B. Queer Black Histories. 3 Units
Term Typically Offered: Fall, Spring

This course explores central themes at the intersection of African American history and queer history to learn about the experiences of same sex loving and gender transgressing African Americans. Uses an interdisciplinary approach to explore historical and contemporary emergence of queer black identities, movements, and communities.

HIST 173. The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring

Examines the campaign for civil rights waged by African Americans from the Reconstruction era through the present. Treats the movement's roots, goals, main organizations, and its relationship with African American culture in this period. Includes a comparison with the experiences of Mexican Americans and Native Americans.

HIST 174. History of Disability in the United States. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall

Study of mental and physical disability in United States history from colonial times to the present. Emphasizes disability as a social and cultural construction and examines how disability intersects with historical constructions of race, class, gender, and sexuality. Includes lived experiences of disabled Americans, changing cultural perceptions of disabled Americans, and disability activism and legislative action, including the passage of the Americans with Disabilities Act and its aftermath.

HIST 174A. History of Disability in the United States. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Study of psychiatric and intellectual disability and its diagnosis and treatment in United States history from colonial times to the present. Emphasizes "madness" as a social and cultural construction and explores how conceptions of madness intersect with historical constructions of race, class, gender, and sexuality. Examines the evolution of psychiatry and therapeutic practices for the treatment of patients, the lived experiences of disabled individuals, disability activism, portrayals of madness in popular culture, and the incarceration of disabled individuals in prisons.

HIST 174B. History of Madness in the United States. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Study of psychiatric and intellectual disability and its diagnosis and treatment in United States history from colonial times to the present. Emphasizes "madness" as a social and cultural construction and explores how conceptions of madness intersect with historical constructions of race, class, gender, and sexuality. Examines the evolution of psychiatry and therapeutic practices for the treatment of patients, the lived experiences of disabled individuals, disability activism, portrayals of madness in popular culture, and the incarceration of disabled individuals in prisons.

HIST 175A. Sex, Population, and Birth Control in America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only – odd years

Explores efforts to control reproduction in America in the nineteenth and twentieth centuries. It examines the medical and legal institutions that shaped public policy and the general public's response to efforts to regulate citizens' reproduction, sexuality, and healthcare. It also investigates how race, ethnicity, class, and gender determined the types of reproductive choices available to Americans.

HIST 175B. Health, Death and Disease in America. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Spring only – even years

An examination of American medicine from the colonial era through the present from a multi-cultural perspective, including how measures of health determined the monetary value of enslaved Americans in the colonial and ante-bellum eras and how Americans ability to access healthcare has been based upon their race, class, gender, and (dis)ability. Also addresses challenges to established medical practices launched by the women's health movement, civil rights activists, the Black Panther Party, and the right-to-die movement.

HIST 176. African Cultural Heritage in the Americas. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Focuses on the legacies of African cultural and social systems among the diasporic Africans in the Americas in the 19th and 20th centuries. Primary focus is on the U.S., but also examines African retentions in Jamaica, Haiti, Cuba, and South America.
HIST 177. The African-American Experience, 1603-Present. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), United States History
Term Typically Offered: Fall, Spring

Gives students an understanding of African-American history from the colonial period to the present. Focuses on African-Americans as active agents in shaping U.S. History, and analyzes the issues, ideas and strategies they have developed and used in their struggle for justice and equality.

Note: Fulfills the state graduation requirements for U.S. History.

HIST 178. Mexican-American History. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring

Explores the contours of Mexican American history from the Spanish colonial experience through the present. Examines the roots of the Chicano community in the U.S. conquest of the Southwest, the twentieth-century immigration experience, the development of diverse Chicano communities after 1900, and the struggles for full civil rights in American society. Compared with the experiences of African Americans and Native Americans.

HIST 179. American Immigration History. 3 Units
Term Typically Offered: Fall, Spring

Study of immigration in American life. Particular attention given to the shifting causes and patterns of immigration, similarities and differences among the experiences of immigrants in the U.S., nativism, the development of immigration restrictions, and the effects of immigration on the life of the nation over time.

HIST 180. American Legal History. 3 Units
Term Typically Offered: Fall only

Examines the interaction of law, society, and politics in America from the colonial period to the present, with special emphasis on law as an arena of social and cultural conflict. Major topics include the development of the common law in early America; the law of slavery and its impact on constitutional development; the role of the law in defining controversies over race and gender; legal thought and education; and the role of the Supreme Court in 20th Century America.

HIST 181. Anarchists and Revolutionaries: Transnational Radicalism in America. 3 Units
Term Typically Offered: Fall, Spring

This course explores the intersection of anti-authoritarian ideologies, transnational migration and anarchist movements in the United States. It will focus on the time period of 1871 through 1940 and the ways in which concepts of "liberty" informed radical movements. Topics may include: European and Caribbean origins of anti-authoritarianism, immigrant enclaves, radical labor, anarchism, anarchist periodicals, and selected liberation movements.

HIST 182. American West. 3 Units
Term Typically Offered: Fall, Spring

Study of the Spanish and Indian frontiers, the advance of the Anglo-American settlers, and the emergence of the modern West.

HIST 183A. California History, 1542-1860. 3 Units
Term Typically Offered: Fall, Spring

Study of the people, institutions and cultural influence of Spanish-Mexican California and the changes brought by U.S. conquest and the Gold Rush.

HIST 183B. California History, 1860-1970. 3 Units
Term Typically Offered: Fall, Spring

Study of the social, political and economic evolution of California from construction of the first continental railroad link to the present, focusing on issues which are still significant in the state.

HIST 184. California Architecture and Urban History. 3 Units
Term Typically Offered: Fall, Spring

A survey of the history of California architecture and its impact on the urban environment from Native Americans to the 20th Century. Particular attention will be given to architecture as a statement of social, economic, and political empowerment.

Cross Listed: ART 118B; only one may be counted for credit.

HIST 185. California Indian History. 3 Units
Term Typically Offered: Fall, Spring

Historical study of California's native people and Indian-white relations from the Spanish colonial era to the present.

HIST 186A. The California Gold Rush. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall only

Study of the social, cultural, economic, political, and environmental influences of the California Gold Rush in the contexts of state, national, and world history.

HIST 186B. History of California Water. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Term Typically Offered: Fall, Spring

Study of the history of water in California, including its social, cultural, legal, economic, political, land use, and environmental significance.

HIST 186C. Sacramento History. 3 Units
Term Typically Offered: Fall only

Surveys the history of Sacramento and the lower Sacramento Valley through the nineteenth, twentieth, and early twenty-first centuries. Using local history methodologies, explores landscape change and patterns of community development in Sacramento and situates the city and region within national and global historical contexts.
HIST 187. Topics in United States History 1600-1900. 3 Units
Prerequisite(s): HIST 17A.
Term Typically Offered: Fall, Spring

Designed for students who want to acquire multiple subject teaching credentials. Examines United States history between 1600 and 1900 from a topical perspective, focusing on large themes and trends. Builds upon HIST 17A.

HIST 188. American Labor History. 3 Units
Term Typically Offered: Fall, Spring

Survey of the history of working people in the United States from the colonial period to the present. Topics include labor systems from slavery to wage work, strategies of labor organizations, race and labor, radicalism and reform, immigration and labor, labor and leisure, women and work, and globalization.

HIST 189. California Dreamin': A Cultural History of California since 1840. 3 Units
Term Typically Offered: Fall, Spring

Study of the cultural history of California as reflected in the humanities - art, music, literature, and film - from early American settlement and conquest to the present.

HIST 190. Clio: Editing and Publishing in History. 3 Units
Prerequisite(s): HIST 100
Term Typically Offered: Spring only

Seminar devoted to learning the editing and publishing side of the history profession. Students will produce the student history journal Clio.

HIST 191. Seminar in Historical Interpretation and Analysis. 3 Units
Prerequisite(s): HIST 100 and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Reading seminar in philosophy of history, historical methodology, and historical reasoning. Special focus on the instructor’s field of expertise. Designed for History majors and present and prospective teachers of history.
Note: Not open to lower division students.

HIST 192A. Seminar in Recent Interpretations of United States History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of United States history. Designed especially for History majors and present and prospective teachers of history.
Note: Not open to lower division students.

HIST 192B. Seminar in Recent Interpretations of European History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of European history. Designed especially for History majors and present and prospective teachers of history.
Note: Not open to lower division students.

HIST 192C. Seminar in Recent Interpretations of Asian History. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of Asian history. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 192D. Seminar in Recent Interpretations of Latin American History. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of Latin American history. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 192E. Seminar in Recent Interpretations of African History. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of African history. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 192F. Seminar in Recent Interpretations of a Special Topic. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of a special topic. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 193. Public History. 3 Units
Prerequisite(s): HIST 100
Term Typically Offered: Fall, Spring

Note: Field trip. Students will be required to attend field trips to public history institutions both on and off campus.
Field trip(s) may be required.
HIST 194. Oral History: Theory and Practice. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M/W and HIST 100.
Term Typically Offered: Fall, Spring
Introduces students to the theory and practice of oral history. Examines ethical and legal issues as well as problems of accuracy in memory. Students will also learn how to conduct, transcribe, and edit oral histories and develop oral history projects.

HIST 195A. History Internship. 3 Units
Prerequisite(s): Permission of the faculty internship director.
Term Typically Offered: Fall, Spring, Summer
Supervised work and project experience with history-related agencies and organizations, developing entry level skills. May not be repeated for credit.

HIST 195B. Advanced History Internship. 3 Units
Prerequisite(s): HIST 195A and permission of the faculty internship director.
Term Typically Offered: Fall, Spring, Summer
Supervised work and project experience with history-related agencies and organizations, developing more advanced entry level skills and practice in communicating history to public audiences. May not be repeated for credit.

HIST 195T. History Pre-credential Internship. 3 Units
Prerequisite(s): HIST 17A, HIST 17B, HIST 50, HIST 51, and HIST 100; permission of instructor.
Term Typically Offered: Fall, Spring
Supervised classroom observations and historical research to assist with curriculum development in secondary grade level history classrooms, with accredited schools, teaching related agencies and organizations. Students improve historical research skills, content mastery, and develop knowledge of using primary sources in history teaching. Students are exposed to secondary grade level history classrooms and observe instructional methods.
Note: Limited to upper division majors in the pre-credential program and students who have an interest in teaching history at the secondary level.
Credit/No Credit

HIST 196M. Japanese History in Japan. 3 Units
Term Typically Offered: Winter
A three-week course, with a two week Study-Abroad portion to Matsuyama Japan. Students will learn about Japanese history in both a classroom setting and through field trips to local sites in Ehime and Hiroshima prefectures. Field trip. Field trip(s) may be required.

Term Typically Offered: Fall, Spring
Examination of religion in the African Diaspora from the colonial period to the present. An introduction to Vodou, Santería, Candomblé, and Hoodoo (Conjure). Exploration of how African religious ideas, practices, and tradition have shaped religious cultures and communities in the Americas.

HIST 197A. Senior Research Seminar: United States History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring
Research seminar in historical writing in which students will complete a research paper in United States History based on primary sources. Subject will vary according to instructor. Recommended for the second semester of the senior year.
Note: Not open to lower division students.

HIST 197B. Senior Research Seminar: World History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring
Research seminar in historical writing in which students will complete a research paper in world history based on primary sources. Subject will vary according to instructor. Recommended for the second semester of the senior year.
Note: Not open to lower division students.

HIST 197C. Senior Research Seminar: Public History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring
Introduction to bibliographic and research skills in secondary and primary sources, and the development of expertise in writing historical reports. Particular attention to regional research libraries, manuscript repositories and archival facilities.
Note: Not open to lower division students.

HIST 198. Summative Assessment for Teachers. 3 Units
Corequisite(s): HIST 100.
Term Typically Offered: Fall, Spring
Capstone seminar that serves as a bridge between academic preparation and entry into a professional teacher credential program. Students will examine social science-history in the State curriculum framework, reflect on subject matter preparation, focus on middle and high school social science teaching and learning, investigate and evaluate resources pertinent to instruction, and explore current issues in education.

HIST 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Open only to students who appear competent to carry on individual work.
Credit/No Credit

HIST 200. History and Theory. 3 Units
Prerequisite(s): Classified standing in History or instructor permission.
Term Typically Offered: Fall, Spring
Study of the theoretical schools and debates that have most influenced historical research and writing in the modern era. Introduces students to both important theoretical texts and their applied use. It is designed to provide an intellectual foundation for subsequent graduate-level history seminars.
Note: Graduate Writing Intensive (GWI) course.
HIST 201. Interpreting World History. 3 Units
Prerequisite(s): Classified graduate status in History or instructor permission.
Term Typically Offered: Fall, Spring

Study of historical interpretations of major issues and problems in world history. Helps students to define world history as a field and to consider different approaches to teaching and/or researching world history topics.

Note: May be repeated for credit provided the period or the topic is different.

HIST 202. Interpreting U.S. History. 3 Units
Prerequisite(s): Classified graduate status in History or instructor permission.
Term Typically Offered: Fall, Spring

Study of historical interpretations of major issues and problems in US history. Helps students to define US history as a field and to consider different approaches to teaching and/or researching US history topics.

Note: May be repeated for credit provided the period or the topic is different.

HIST 203. Public History Principles and Techniques. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Provides an introduction to public history by surveying the major topics in the field through readings, discussion, and guest lectures. Students will learn about the history of public history, employment opportunities for public historians, and public historical issues.

Note: Graduate Writing Intensive (GWI) course.

HIST 209A. Research and Writing in US History. 3 Units
Prerequisite(s): Classified standing in History or instructor permission.
Term Typically Offered: Fall, Spring

Research seminar in fields of special interest. Topics will be announced each semester.

Note: May be repeated for credit provided the period or the topic is different.

HIST 209B. Research and Writing in the History of the American West. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Research seminar in fields of special interest in the history of the American West. Topics will be announced each semester.

Note: May be repeated for credit provided the period or the topic is different.

HIST 209C. Research and Writing in World History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Research seminar in fields of special interest in the history of regions outside the U.S. Topics will be announced each semester.

Note: May be repeated for credit provided the period or the topic is different.

HIST 280A. Reading Seminar in African or Asian History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature on a topic in African or Asian history. The area or topic to be studied will change from term to term.

Note: May be repeated for credit provided the period or the topic is different.

HIST 280B. Reading Seminar in Ancient or Medieval European History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature on a topic in ancient or medieval European history. The area or topic to be studied will change from term to term.

Note: May be repeated for credit provided the period or the topic is different.

HIST 280C. Reading Seminar in Modern European History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature on a topic in early modern or modern European history. The area or topic to be studied will change from term to term.

Note: May be repeated for credit provided the period or the topic is different.

HIST 280Z. Reading Seminar: Topics in World History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature in world history. The area of topic to be studied will change from term to term.

Note: May be repeated for credit provided the period or the topic is different.

HIST 281A. Reading Seminar in Colonial or Early US History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature of a particular period or topic in colonial North American or early U.S. history; the era or topic to be studied will vary from semester to semester.

Note: May be repeated for credit provided the period or the topic is different.

HIST 281B. Reading Seminar in Nineteenth Century US History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature of a particular period or topic in nineteenth century U.S. history; the era or topic to be studied will vary from semester to semester.

Note: May be repeated for credit provided the period or the topic is different.

HIST 281C. Reading Seminar in Modern US History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature of a particular period or topic in U.S. history after 1900; the era or topic to be studied will vary from semester to semester.

Note: May be repeated for credit provided the period or the topic is different.
HIST 281Z. Reading Seminar: Topics in United States History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring
Extensive reading and analysis of significant historical literature of a particular period or topic in U.S. history; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 282A. Research Seminar in Public History. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring
Professional training in the research and analysis of cartographic, archival, architectural, and artifactual sources related to public history. Attention to such research areas as cultural resources management, environmental impact, and historic sites and structures.

HIST 282B. Archives and Manuscripts. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring
Professional training in archives and manuscripts administration. Historical development of archives and manuscripts administration, theoretical concepts that underlie the discipline, integration of these concepts into practice, and various uses of archival resources.

HIST 282C. Oral History: Theory and Practice. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring
Professional training in oral history, with attention to the field’s historical and theoretical development. Emphasis is placed on the methodology of oral history in the context of selected public history topics. Students learn to prepare for, conduct, transcribe, and edit oral history interviews.

HIST 282D. Museum Studies. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring
Intensive introduction to museum theory, practice, and management. Concentrates on providing an understanding of museums including museum exhibitions, collections, and acquisition policy. Students will have opportunities for practical museum experience and for meeting museum professionals.

HIST 282E. Historic Preservation. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring
Overview of the different aspects of historic preservation, including downtown revitalization, neighborhood organization, historic site management, preservation legislation, preservation education and historic architecture. The history of historic preservation in the U.S. Students will engage in on-site visits to historic sites.

HIST 282F. History and Memory. 3 Units
Prerequisite(s): Classified standing in Public History, History or instructor permission.
Term Typically Offered: Fall, Spring
Study of theoretical schools and debates regarding the formation, transformation, and transmission of collective memory. Draws upon theoretical literature on group memories from the social sciences and humanities, and it examines the importance of this literature for public and academic historians.

HIST 282G. Cultural and Heritage Tourism. 3 Units
Term Typically Offered: Fall, Spring
Seminar course that explores the theory and methods of cultural and heritage tourism as it pertains to experiences locally and globally. Topics include interpretation, audience interaction, and the economic, social, and political implications of heritage travel. Field trips and collaborative course project are required. Field trip(s) may be required.

HIST 282Z. Special Topics in Public History. 3 Units
Prerequisite(s): HIST 203 or instructor permission.
Term Typically Offered: Fall, Spring
Intensive seminar in a particular topic related to public history studies. Topics may vary and may include exhibit design, digital production, world heritage, cultural landscape, or other specialized knowledge in the field.

HIST 290. Clio: Editing and Publishing in History. 3 Units
Term Typically Offered: Spring only
Seminar devoted to learning the editing and publishing side of the history profession. Students will produce the student history journal Clio.

HIST 295. History Internship. 3 Units
Prerequisite(s): Graduate status and permission of faculty internship director.
Term Typically Offered: Fall, Spring
Supervised work and project experience with history-related agencies and organizations, developing entry-level professional skills.
Note: May be repeated for credit
Credit/No Credit

HIST 297. Advanced Internship. 3 Units
Prerequisite(s): HIST 295 and permission of the faculty internship director.
Term Typically Offered: Fall, Spring
Professional work experience in a specialized field of public history, with training and supervision as part of the Capital Campus Graduate Program in Public History.
Credit/No Credit

HIST 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work; May be repeated for credit.
Credit/No Credit

HIST 400. The Teaching of History in College. 3 Units
Term Typically Offered: Fall, Spring
Seminar devoted to the teaching of college history. Students will intern in lower division courses.
HIST 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring

Credit given upon successful completion of one of the following: A.) Thesis. An original contribution to historical knowledge, which includes the statement of a problem, a review of pertinent literature, the collection and presentation of relevant material, a conclusion, and a formal bibliography, all presented with appropriate documentation; OR B.) Project. A significant undertaking appropriate to public history, based upon the relevant literature, research skills, and applied expertise in areas of professional concern. Available for MA, Public History Option students only; OR C.) Comprehensive Examination. Structured and supervised reading programs for MA candidates preparing for the History Comprehensive Examination.

Honors Program (HONR)

HONR 1. First Year Seminar: Education, Self-Examination, and Living. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to comparative ideas of education and self-development. In writings from around the world, examines works on education, autobiographical accounts, and short stories to explore concepts of teaching, learning, human growth and development, and the role of the school and university in the realization of human potential.

HONR 2. Great Books and World Civilization I. 3 Units
Prerequisite(s): HONR 1 and instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Students read, discuss, and explore some of the most influential works of literature, philosophy, history, and religion from cultures around the world prior to the 15th century. Students will gain knowledge of different cultural traditions, explore ways to criticize and to learn from different genres of literature, examine their own concepts and ideas, and practice skills of critical thinking in dialogue with challenging works. Readings will be drawn from a broad array of sources, including Greek, Chinese, and Indian traditions, different religious faiths, and works of literature representing a variety of outlooks and views.

HONR 3. Great Books and World Civilization II. 3 Units
Prerequisite(s): HONR 2 and instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Students read, discuss, and explore some of the most influential works of literature, philosophy, history, and religion from cultures around the world from the 15th century to the present. Students will gain knowledge of different cultural traditions, explore ways to criticize and to learn from different genres of literature, examine their own concepts and ideas, and practice skills of critical thinking in dialogue with challenging works. Readings will be drawn from a broad array of sources, including Greek, Chinese, and Indian traditions, different religious faiths, and works of literature representing a variety of outlooks and views.

HONR 101. Science and the Public Good. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

This course examines how scientists employ information derived through the scientific method and statistical analyses to form conclusions. The methodology of science is applied to public policy debates relating to climate change, the use of DNA, Creationist/evolutionist issues, water conservation, land use zoning, energy, mineral resources, and other topics.

HONR 102. The Public Good Through the Visual and Performing Arts. 3 Units
Prerequisite(s): Upper division status in Honors Program; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

This course explores the role of the visual and performing arts as a catalyzing and infinitely variable means of pursuing the public good. Students will engage with the artistic process as well as learn how works of art have successfully challenged ideological conventions and helped change social and political systems. Strategies of making art will be examined in the form of specific visual and performativity methodologies, the context of the artist, and the public perception of various art forms.

HONR 103. Civic Engagement, Service Learning: Pursuing the Public Good. 3 Units
Prerequisite(s): Must be admitted to Honors Program
Term Typically Offered: Fall, Spring

Students to be an active participant in his/her own learning process through a service learning experience and participation in a corresponding seminar. Students are offered a reciprocal opportunity to acquire knowledge and develop skills while providing service and assistance to the community. Students will have the opportunity to assess the circumstances of an organization and provide feedback on their situation. The student will evaluate and assess his/her service learning from three perspectives: the physical universe and its life forms, social issues and social science research, and the arts.

Note: An international experience can be substituted for a local service learning experience. See Honors Program Director for more information.

HONR 120. Honors One World Seminar. 3 Units
Prerequisite(s): Open to students in the Honors program and permission of the program director.
Seminar dedicated to exploring the One World theme for the university. Topic changes annually.

HONR 150. Leadership Seminar. 3 Units
Prerequisite(s): Open only to Honors students.
Term Typically Offered: Fall, Spring

Seminar dedicated to exploring the principles of effective leadership.
HONR 195. Community Fieldwork and Internship. 3 Units  
**Prerequisite(s):** Open to students in the Honors Program with permission of the program director and advanced approval of project goal and objective.  
**Term Typically Offered:** Fall, Spring

Supervised service-learning experience with a community partner. This experience focuses on application of the interdisciplinary approach of the General Education Honors Program while affording students direct, hands-on experiences.  
Credit/No Credit

HONR 196. Honors Senior Thesis. 3 Units  
**Prerequisite(s):** Open only to students enrolled in the GE Honors program with permission of the program director.  
**Term Typically Offered:** Fall, Spring

Honors research seminar in which students will complete a research paper in the discipline of their choice based on original research. Recommended for the student’s final semester of study.

HONR 199. Special Problems. 1 - 3 Units  
**Term Typically Offered:** Fall, Spring

Open to students enrolled in the General Education Honors Program. Individual projects and directed reading for students who are competent to assume independent work. Requires approval of the Honors Program Director and Honors faculty member under whom the independent work is to be conducted.

**How to Read Course Descriptions**

The **bolded** first line begins with a capitalized abbreviation that designates the subject area followed by the course number and title. The unit value is also displayed. Icons, if displayed, designate courses which satisfy Writing Intensive # and Race & Ethnicity # requirements.

**Prerequisite(s):** Coursework to be completed and/or requirements required before taking the course.

**Corequisite(s):** Course(s) that must be taken in the same term.

**General Education Area:**

Indicates the graduation requirement area, if listed, which the course fulfills.

- American Institutions:
  - United States History
  - U.S. Constitution
  - California Government
- Race and Ethnicity
- Foreign Language
- Writing Intensive

Indicates the General Education (GE) area, if listed, which the course fulfills.

- A – Basic Subjects
  - A1 – Oral Communication
  - A2 – Written Communication
  - A3 – Critical Thinking
  - B – Physical Universe and Its Life Forms
- B1 – Physical Science
- B2 – Life Forms
- B3 – Lab
- B4 – Mathematical Concepts and Quantitative Reasoning
- B5 – Further Studies in Physical Science, Life Forms, and Quantitative Reasoning
- C – Arts and Humanities
  - C1 – Arts
  - C2 – Humanities
- D – The Individual and Society
- E – Understanding Personal Development
- F – Ethnic Studies

The **course description** outlines what topics are covered in the course. If included, **cross-listed** indicates the same course is offered in a different department/subject.

The **Note** indicates additional information regarding the course.

**Credit/No Credit:** Indicates if the course grading basis is not a letter grade.

**Graded (CR/NC Available)** indicates a course with a grading basis that is a letter grade where the student may choose a Credit/No Credit grading basis.

**Human Resources/Organizational Behavior (HROB)**

HROB 101. The Management of Contemporary Organizations. 3 Units  
**Term Typically Offered:** Fall, Spring

Overview of managerial and organizational theory and practice, including a discussion of the contingencies that influence an organization’s effectiveness and efficiency. Focus is on the decision making and problem-solving processes that affect managerial performance in planning, implementing, and controlling the work of contemporary organizations.

HROB 151. Management of Human Resources. 3 Units  
**Prerequisite(s):** BSBA major (any concentration), Real Est and Land Use minor, HROB minor, or Public Health major  
**Term Typically Offered:** Fall, Spring

Seminar covering contemporary processes and practices pertaining to the organization and management of personnel including employee selection, development, motivation, evaluation and remuneration, and union relations. Emphasis on the management of human resources in task oriented organizations. Instructional method provides for case method, laboratory exercises, and small group discussion.

HROB 152. Management Skills Seminar. 3 Units  
**Prerequisite(s):** HROB 101; HROB 151 recommended.  
**Term Typically Offered:** Fall, Spring

Development of management awareness of the dynamics of organizational behavior. Emphasis on case discussions, small group action and role playing for the acquisition of knowledge and skills for effective managing and changing in an organization.
HROB 151. Employment Law.
Term Typically Offered: Fall, Spring

Provides students with an overview of the employment laws that impact and influence the workplace including laws regarding employment discrimination, disability discrimination and accommodation, employment leaves of absence, workplace harassment, employment torts and contracts, wage/hour regulations, employee privacy, intellectual property in the employment setting, and other emerging issues in employment law and personnel management. The impact of law on the management of human resources will be the focus of this class.

HROB 154. Strategic Human Resources Management.
Prerequisite(s): HROB 151, HROB 152, HROB 153.
Term Typically Offered: Fall, Spring

The objective of this capstone course is to identify contemporary strategies to improve individual and organizational performance. Utilizes a strategic human resource management perspective and incorporate Human Resource Management and Organizational Behavior theories for practical implementation in organizations. Links such concepts as compensation, performance management, law, conflict management, communication, diversity, ethics, and managerial skill building towards preparing for the future of managing individuals in organizations.

Term Typically Offered: Fall, Spring

Analyzes conflict in organizations, and strategies and processes for effective settlement or resolution of that conflict. Emphasis on the practical aspects of institutional and extra-institutional processes outside the conventional legal system. These dispute resolution methods include negotiation, mediation, arbitration and fair hearing. Students participate in a variety of exercises including simulated negotiations. Through these exercises students explore the basic theoretical models of bargaining and test and improve individual negotiation skills. Class format includes lecture, class discussion, simulation/role-play, expert guests and video demonstrations.

HROB 156. Current Trends and Emerging Issues.
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of current trends and emerging issues in human resources management and/or organizational behavior. Provides students the opportunity to better understand the latest people-related challenges organizations face. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 157. Labor Relations.
Term Typically Offered: Fall, Spring

Employer-employee relations in historical and contemporary contexts, with emphasis on the development of labor and management institutions and philosophies, public policies, collective bargaining, and contract administration in the private and public sectors.

HROB 158. Special Topics in Human Resource Management.
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of a current human resource management topic(s), from both a theoretical and practitioner perspective. Possible topics include, but are not limited to, outsourcing and staffing trends, merit-based performance and compensation plans, technology-based recruiting and selection practices, and innovations in training and career development. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 159. Special Topics in Organizational Behavior.
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of a current organizational behavior topic(s), from both a theoretical and practitioner perspective. Topics include, but are not limited to, family-work relations, stress and burnout, workplace aggression, leadership and motivation, organizational politics and culture, attitudes and change, and organizational learning. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 160. Cooperative Education Experiences in Human Resources Management.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in human resources management. This supervised work experience allows the student to become familiar with the practice of human resources management in businesses or governmental agencies.

Note: Open to all upper division students subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

HROB 194. Internship in Human Resources Management.
Prerequisite(s): Minimum Sacramento State GPA of 2.5 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Note: Open to declared business administration majors only.

Credit/No Credit

HROB 195. Internship in Human Resources Management.
Prerequisite(s): HROB 151 and a minimum overall GPA of 2.5.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit
Humanities and Religious Studies (HRS)

HRS 4. Exploring World Religions. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Comparative inquiry into the nature of global religions, including Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam. Experiential, social, and material aspects of religions will be considered as well as beliefs and practices.

HRS 10. Arts and Ideas of the West: Ancient to Medieval. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the literature, art, architecture, philosophy and history of the ancient and medieval West, with emphasis on classical Greece and Rome and the European Middle Ages.

HRS 11. Arts and Ideas of the West: Renaissance to Modern. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the literature, art, architecture, music, philosophy, and history of the West from the Renaissance to the present.

HRS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills.

HRS 60. Popular Culture: Thinking Critically About the World Around Us. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Focus on thinking critically and building arguments about popular culture in its various forms, including television, film, music, art, and literature. Enhances understanding of popular culture, including definitions of key analytical terms, sociocultural history, generic structures, and aesthetic appreciation.

HRS 70. Arts and Ideas of Asia: Ancient to Medieval. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Introduction to the cultural history of ancient and early medieval Asia incorporating examples of art, literature, philosophy, and religion, providing a survey of China, India, and several other distinct cultures of the areas surrounding them--especially Japan.

HRS 71. Arts and Ideas of Asia: Medieval to Modern. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Introduction to the cultural history of late medieval and modern Asia incorporating examples of art, literature, philosophy, and religion, providing a survey of China, India, and several other distinct cultures of the areas surrounding them--especially Japan.

HRS 80. Introduction to Film. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the aesthetics of cinema, including understanding of how lighting, editing, angles, shot length, and framing create meaning in film. Discussion of aesthetic movements such as German Expressionism, Nouvelle Vague, and auteurism.

HRS 105. Approaches to the Humanities. 3 Units
Prerequisite(s): HRS 10 and HRS 11 or instructor permission.
Term Typically Offered: Fall only

Advanced study of interdisciplinary methods applied to the arts, including literature, music and other modes of humanistic expression.

HRS 108. Approaches to Religious Studies. 3 Units
Term Typically Offered: Fall only

Exploration of the history and methodology of Religious Studies, including the analysis of several significant theories of the origin and function of religion. Methods and theories drawn from the disciplines of psychology, sociology, history, anthropology, philosophy and feminist studies.

HRS 113. The Culture of Classical Greece. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Examination of the Golden Age of Athens and the birth of Western humanism; studies in the classical ideals, tragedy, comedy, poetry, history, philosophy, art and architecture.

HRS 114. The Culture of Classical Rome. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Study of Roman culture and its influence. Emphasis on art, architecture, literature, history, philosophy and religion of Rome from the early Republic to the end of the Western Empire.

HRS 115. Material Culture of Ancient Rome. 3 Units
Term Typically Offered: Fall, Spring

A focused study of ancient Roman culture as understood through investigation of materials artifacts, especially as found in archaeological sites and museum exhibits. The majority of course time will be spent in Rome and in Pompeii and other locations near Bay of Naples. Visits to archaeological sites and museums will be supplemented by readings of relevant texts and by ongoing discussion.

HRS 117. Paganism in the Roman World. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of ancient Roman paganism, the wide variety of religious beliefs, practices, and institutions found throughout the Roman world. Topics include Greek influences, traditional religion, state and ruler cults, healing cults, oracles, astrology, mystery religions, priests and priestesses, prayer, sacrifice, and religious philosophies.

HRS 119. Classical Mythology. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Study of Greek and Roman myths and hero tales and their place in the arts and literature of Western civilization. Also provides an introduction to the general nature and function of myth.
HRS 120. Reason and Revelation: The Origins of Western Culture. 3 Units

Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)

Term Typically Offered: Fall, Spring

Study of the conflicting cultures that have shaped the social, religious and ethical perspectives of Western Culture. Readings in the Bible, Plato, Greek drama, the New Testament, and church fathers.

HRS 121. Introduction to the Hebrew Bible/Old Testament. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Fall only

Survey of the historical narratives and other literature of the Bible, analysis of archeological evidence and introduction to the basic problems of textual criticism. Topics of study will include the origins and development of early Judaism and its interaction with surrounding cultures.

HRS 122. Introduction to the New Testament. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Spring only

Study of the New Testament literature in its historical and cultural setting. Topics covered include the literary relationships of the four Gospels, the historical Jesus, the evolution of early Christianity, and the diverse theologies represented in the letters of Paul and other canonical and non-canonical writings.

HRS 126. History of Christianity to the Reformation. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Fall only

Christianity from Jesus to Martin Luther. Emphasis on the evolution of Christian thought and institutions and the relationship of the Church to popular culture and secular powers. Cross Listed: HIST 126; only one may be counted for credit.

HRS 127. History of Christianity Since the Reformation. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Spring only

European Christianity from the Reformation to the present. Emphasis on the evolution of Christian thought, the co-existence of the Catholic and Protestant traditions and the relationship of religious and secular values in European society. Cross Listed: HIST 127; only one may be counted for credit.

HRS 131. Medieval Culture. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Fall only

Decline of Rome to the Renaissance. Emphasis on the cultural development of the West from the Germanic invasions until the advent of Humanism with attention to theology, art, architecture and literature to illustrate the dynamics of these diverse years.

HRS 132. Renaissance. 3 Units

Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)

Term Typically Offered: Spring only

Investigates the nature and implications of Renaissance Humanism in Italy (14th and 15th centuries) as well as its impact in Northern Europe in the 16th century. Includes the literary works of such writers as Petrarch, Pico, Machiavelli, Erasmus and Cervantes, along with the art of Giotto, Botticelli, Michelangelo, Brunelleschi, Cellini, Dufay, da Vinci, and the music of Palestrina.

HRS 133. Baroque and the Enlightenment. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Fall, Spring

Multi-faceted survey of the culture of Europe and North America in the Age of the Baroque and Enlightenment (1600-1792). Emphasizes literature, music, painting, architecture and ideas in France, Britain, Germany and Italy.

HRS 135. Romanticism and Revolution. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Fall, Spring

Interdisciplinary survey of the cultures of Europe and North America in the 19th century. Building on the Romantic aesthetic developed late in the 18th century. Considers the literature, music, painting and ideas of northern Europe and America until the 1900s.

HRS 136. Birth Of The Modern. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Fall, Spring

Investigation of those crises in art and society underlying the development of modernism and post-modernism.

HRS 137. Global Crossings: Art and Culture 1945 to Present. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Fall, Spring

Exploration of concepts and expressions of postmodernism and its emphasis on irony, citation, and the interconnectedness of politics, aesthetics, and philosophy across the disciplines (art, literature, architecture, film) and the continents (Europe, Asia, Africa, America and Latin America).

HRS 141. Introduction To Judaism. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Fall only

Survey and analysis of the fundamental tenets of Judaism set within the context of the historical and intellectual development of the Jewish People.

HRS 142. Introduction to Christianity. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Spring only

Study of the beliefs, practices, institutions and history of the Christian religion. Emphasis on the Orthodox, Roman Catholic, and Protestant traditions and the relationship of Christianity to global cultures.
HRS 144. Introduction To Islam. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer
Survey of the Islamic way of life: its beliefs, traditions and practices from Quranic origins and the Sunna of the Prophet Muhammad. The historical development of Islamic law, religious sects, mysticism, and intellectual thought of the global Muslim community from medieval to contemporary times.

HRS 145. Introduction to Islamic Cultures. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only
Survey of the expression of Islamic values in religious practice, philosophy, theology, art, architecture, music, and literature in different geographic locations and historical periods.

HRS 146. Islam in America. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring
An inquiry into the history and development of Islam in United States. Special emphasis will be placed on issues related to race, ethnicity, gender, ritual practice, and the politics of being Muslim in America.

HRS 147. History of Buddhism. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Examines in cultural and historical perspective, drawing on both ancient and contemporary sources, the key practices and ideas of Buddhist traditions in India, China, Southeast Asia, Tibet, Japan, and other surrounding regions; as well as the more recent spread of these practices and ideas to Europe, North America, and Australia.
Cross listed: HIST 147

HRS 148. African Arts and Cultures. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Survey of African cultural and artistic forms which explores the intersection of culture and the humanities in different African contexts past and present. Emphasizes the cultural diversity of the African continent, and surveys how different cultural, ethical, aesthetic, and religious values are expressed in literature, visual art, music, architecture, and ritual. Focuses primarily on sub-Saharan Africa.

HRS 151. World Mythology. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Introduction to the nature and function of myth. The specific literature studied will be exclusive of classical mythology and because of the breadth of subject matter will vary in content. The mythology of at least four cultures will be covered each term.

HRS 152. Great Mystics of the World. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Examination of the meaning of mysticism as a “direct experience of ultimate reality” in the world’s religions. The history, teachings, belief systems and scriptures of Hinduism, Buddhism, Daoism, Confucianism, Judaism, Christianity and Islam will be studied to illuminate the lives and works of each religion’s great mystical thinkers.

HRS 154. Food, Farming, and the Sacred. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Examination of primary sources dealing with the sacred dimensions of food and farming in pre-modern and modern world cultures. Attention paid to sustainable, small-scale farming, and spiritual perspectives that promote and reinforce sustainable food practices. Interested students may receive one additional unit of credit for 20 hours of work with a local organization involved in farming and/or local food distribution through the Community Engagement Center and reflection assignments relating this work to course materials.

HRS 155. Spirit and Nature. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Comparative inquiry into the critical connection between religion and nature. Traditional views of selfhood, the sacred, morality and specific ecological issues, such as energy consumption will be examined through representative sources in world religions.

HRS 161. Multicultural America. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring
Topically structured, interdisciplinary introduction to the cultural experiences of historically under-represented groups. Historical and contemporary events, as well as values and beliefs in American culture, are examined through various artistic expressions, such as music, painting and literature.

HRS 162. American Space and Identity. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Examination of the ways in which physical spaces within America contribute to the formation of American identities and vice versa. Interdisciplinary and topically organized, analyzes both exterior and interior spaces: city, suburb, regions, body, mind, and the borderlands, to name a few. Also studies the interaction of race, class, gender, and sexuality with space and identity.

HRS 165. Images Of America. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X, or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring
Interdisciplinary survey of major events, trends and figures in American history viewed through the lenses of American literature, visual arts, music and architecture. The arts in America are studied in relation to major ideas, significant personalities and important historical events from the period of the early republic to the present.
Cross Listed: HIST 168; only one may be counted for credit.
HRS 169. Hollywood and America. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Chronological survey of American films and their cultural significance from the 1890s to the present. Focus on films produced in Hollywood, the contexts in which they were created and the impact of Hollywood as a geographical and mythical place in the development of American culture. Cross Listed: HIST 169; only one may be counted for credit.

HRS 170. The Religious Landscape of the Sacramento Valley. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2).
Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Introduction to the field study of religious communities. Addresses the nature of religious pluralism in the U.S. today. The practice and belief systems of at least five different religious communities will be studied each semester. Students are required to do an in-depth term project based on research in one or more religious communities Cross Listed: ANTH 170; only one may be counted for credit.

HRS 171. Introduction to the East Asian World. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Comparative study of the cultural heritages of China and Japan through literature, art, religion, philosophy and history. East Asian modes of thinking and humanistic expressions will be identified and contrasted with those of the West.

HRS 172. The Classical Culture of China. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to classical Chinese culture through a survey of history, philosophy, religion, literature and art. The course identifies the uniqueness of Chinese culture as well as the common concerns it shares with other high cultures.

HRS 173. Chinese Philosophy and Religion. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of Chinese philosophic and religious ideas through representative works in English. The traditional Chinese views on human nature, society, politics, morality, and spirituality are examined. The Chinese transformation of Buddhism will also be discussed. The inner dynamics of traditional Chinese thought and its contemporary implications are explored.

HRS 174. Modern Japanese Literature and Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of representative Japanese literature (in English translation) from the late Tokugawa through the modern period. Traditional Japanese values will be identified and Japan’s journey toward modernity examined. Both the uniqueness of Japanese culture and common concerns among cultures will be explored.

HRS 175. Zen Buddhism and Daoism. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Mystical nature of Daoist and Zen teachings will be emphasized. The organic linkage between Daoism in China and Buddhism in India will be explored. The emergence of Zen as a quintessential representative of East Asian cultural and aesthetic values will be discussed.

HRS 176. The Confucian Tradition. 3 Units
Term Typically Offered: Fall, Spring

Study of the Confucian tradition as it unfolded in China and influenced China’s East Asian Neighbors. Philosophical and religious dimensions, as well as the evolution and transformation of this uniquely Chinese tradition over time, will be studied. The Confucian influence on Chinese culture, philosophy, religion, literature, political structure and social organization will be identified and analyzed.

HRS 178. Religions of India. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

An introduction to the bewildering diversity of Indian religions, relating religious practices & ideas to broader cultural developments, including visual arts and literature. Focuses on the way Hindu, Buddhist, Jain and Sikh traditions address the concept of karma in distinctive ways, paying special attention to the way words and intentions are said to influence the consequences of a person’s deeds.

HRS 178A. Religions of India I: The Formative Period. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to religious life on the Indian subcontinent during its ancient period, relating religious practices and ideas to broader cultural developments, including visual arts and literature.

HRS 178B. India’s Religions: Jains & Sikhs. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only – odd years

Introduction to India’s stunningly diverse religious landscape, exploring perspectives and practices in the development of the lesser known but widely influential Jain and Sikh traditions that lend special insight into India’s modern cultural practice and worldview. Focuses on Jain and Sikh notions of heroism and non-violence, paying special attention to the ideals of iconoclasm, religious pluralism and devotion.

HRS 179A. The Hindu Year. Fall. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A survey of Hindu religious teachings, stories, and history, as expressed through the holy days and festivals celebrated each fall by Hindus throughout India and abroad, during which ideas, stories, and values are transmitted from one generation to the next. Examines the little understood and rarely discussed historical development behind each celebration, based on both ancient and contemporary sources, thereby revealing why Hindu ideas and history have remained compelling to Hindus for thousands of years.
HRS 179B. The Hindu Year: Spring. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
A Survey of Hindu religious teachings, stories, and history, as expressed through the holy days and festivals celebrated each spring and summer by Hindus throughout India and abroad, during which ideas, stories, and values are transmitted from one generation to the next. Examines the little understood and rarely discussed historical development behind each celebration, based on both ancient and contemporary sources, thereby revealing why Hindu ideas and history have remained compelling to Hindus for thousands of years.

HRS 180. The Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
Introduction to the aesthetics of cinema with special attention to the evolution of critical theories of cinema within the framework of twentieth century arts and ideas.

HRS 181. Contemporary Issues in Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
Examination of contemporary film and film criticism from an interdisciplinary perspective, stressing the links between film, literature, the visual arts and society.

HRS 183. World Religions and Cultures in Cinema. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Summer only
Examination of the religious and spiritual dimensions of selected films from around the world. The cinematic arts are examined in relationship to religious and spiritual concerns, concepts, and values.

HRS 185. Women in Film and American Culture. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Study of major social issues confronting American women, examined through their images in film and other visual and literary arts.

HRS 188. Fantasy and Romance. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Exploration of the aesthetic of fantasy. Approaches may include emphasis on the historical development of the quest-romance or the use of the fantastic as social commentary. Particular genres, such as science fiction, may be explored.

HRS 190B. Seminar in HRS: The Body. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS major or minors only
Term Typically Offered: Fall, Spring
Seminar for Humanities and Religious Studies majors. Examines cultural constructions of the body through analysis of art and literature and through the insights of media studies, cultural studies, sociological, psychology, and anthropology.
Cross listed: HRS 290B

HRS 190C. Seminar in HRS: Many Realities of Consciousness. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS major or minors only
Term Typically Offered: Fall, Spring
Seminar for Humanities and Religious Studies majors. Examines philosophies and theories of perception as applied to cultures, religious traditions, nature, film and literature. Investigates consciousness through examination of the subjectivity of human perception.
Cross listed: HRS 290C

HRS 190D. Seminar in HRS: The Hero. 3 Units
Prerequisite(s): Must be HRS major or minor; Completion of 9 units of HRS lower division courses; Completion of the GWAR.
Term Typically Offered: Fall, Spring
Seminar for Humanities and Religious Studies majors. Examines the hero in cross-cultural and historical perspective through analysis of literature, the visual arts, and music.
Cross listed: HRS 290D

HRS 190H. Seminar in HRS: Death and Afterlife. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS major or minors only
Term Typically Offered: Fall, Spring
Seminar for Humanities and Religious Studies majors. Examines myths, theories, and perceptions of death and afterlife in cross-cultural and historical perspective through analysis of literature, the visual arts, and music.
Cross listed: HRS 290H

HRS 190M. Saints, Relics, and Miracles in Late Antique and Medieval Europe. 3 Units
Prerequisite(s): Student must complete 9 units of lower division core courses and be eligible for WI classes based on WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring
Seminar for Humanities and Religious Studies majors. Examines the role of the body in the creation of saints' cults in medieval Europe through analysis of literature and art. Considers how the idea of martyrdom set the terms for an ideal Christian life and explores the role relics, pilgrimage and miracle stories played in medieval society.
Cross Listed: HRS 290M

HRS 190P. Seminar in HRS: Popular Culture in America. 3 Units
Prerequisite(s): For HRS majors and minors; completion of 9 units of HRS lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite.
Term Typically Offered: Fall, Spring
Seminar for undergraduate students studying in the Department of Humanities and Religious Studies. Examines the issues, theories, and methods associated with popular and material culture studies using an interdisciplinary perspective.
HRS 195. Seminar in Humanities. 3 Units
Prerequisite(s): Completion of 12 units of HRS lower division core courses, HRS 105, senior status; or instructor permission.
Term Typically Offered: Spring only

Senior seminar for Humanities and Religious Studies majors with Humanities Concentration; focuses on the perspectives and methods of the academic study of the humanities. Topics chosen by the instructor.
Note: May be repeated once for credit.

HRS 196. Experimental Offerings in Humanities and Religious Studies. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Special experimental course on specific themes, figures, or topic areas.
Note: May be taken twice for credit if topic differs.
Credit/No Credit

HRS 196E. Seminar in HRS: Envisioning the Divine. 3 Units
Prerequisite(s): Must be HRS major or minor; Completion of 9 units of HRS lower division courses; Completion of the GWAR.
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies majors and minors. Cross-cultural and trans-historical analysis of depictions of the divine in the visual, musical, and literary arts. Employs a modified seminar format, emphasizing analysis of primary and secondary material mainly by way of discussion.

HRS 196S. Storytelling & Myth in World Cultures. 3 Units
Prerequisite(s): Must be HRS major or minor; completion of 9 units of HRS lower division courses; eligibility for WI classes based on WPJ placement score or passage of appropriate prerequisite; or instructor permission. Paired with 296S.
Term Typically Offered: Spring only – odd years

Seminar for Humanities and Religious Studies majors and minors. Cross-cultural and trans-historical analysis of the way storytelling, along with the rituals associated with it, supports the development and spread of myth. Emphasis on analysis of primary and secondary material mainly by way of discussion.

HRS 198. Seminar in Religious Studies. 3 Units
Prerequisite(s): Completion of 9 units of HRS lower division core courses, HRS 108, senior status; or instructor permission.
Term Typically Offered: Spring only

Senior seminar for Humanities and Religious Studies majors with Religious Studies Concentration; focuses on the perspectives and methods of the academic study of religion. Topics chosen by the instructor.
Note: May be repeated once for credit.

HRS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Tutorial-reading course involving independent research. Topic and research method to be decided upon jointly by student and instructor.
Note: May be repeated for credit.

HRS 200A. Culture and Expression: Prehistory to the Middle Ages. 3 Units
Prerequisite(s): Must be a HRS major or minor
Term Typically Offered: Fall, Spring

Interdisciplinary seminar on cultural movements, figures, and art forms of eras from prehistory to the European Middle Ages. Focus on the West with some global comparison. Emphasis on theoretical perspectives, methods, and research techniques germane to the humanities.

HRS 200B. Culture and Expression: Renaissance to the Present. 3 Units
Prerequisite(s): Must be a HRS major or minor
Term Typically Offered: Fall, Spring

Interdisciplinary seminar on cultural movements, figures and art forms of eras from the Renaissance to the present. Focus on the West with some global comparison. Emphasis on theoretical perspectives, methods and research techniques germane to the liberal arts.

HRS 202. Western Aesthetics: Traditions and Revision. 3 Units
Prerequisite(s): Graduate standing.
Term Typically Offered: Fall, Spring

Introduction to critical methodologies in the Humanities and to techniques of formal analysis as applied to specific eras and artworks in Western cultural history.

HRS 205. Space and Time. 3 Units
Prerequisite(s): 6 units in philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to significant philosophical issues involving space and time. An investigation into the current state of these issues.
Note: No background or work in mathematics or physics is required.
Cross-listed: PHIL 192D; only one may be counted for credit.

HRS 209. Versions of the Self in Western Literature and the Arts. 3 Units
Term Typically Offered: Fall, Spring
Traces the stages through which the concept of the “self” emerges in Western literature, philosophy and the arts, from Antiquity to the 20th Century. Focus is on the transformation of moral identity as the West moves from a divinely ordered cosmos to a relativized universe.

HRS 210. Gender and Religion in Cross-Cultural Perspective. 3 Units
Term Typically Offered: Fall, Spring
Exploration of the relationships and roles of women and men in the context of religious life. May focus extensively on one or more particular religious traditions cross-culturally, or draw on a wider spectrum of examples. Special attention paid to the complementary nature of men’s and women’s roles in many religious traditions; and also the way that male perspectives have dominated many areas of formal religious discourse, noting the dissenting voices of women often hidden in more informal types of expression.
Cross-listed: LIBA 210; only one may be counted for credit.

HRS 213. Ancient Greek Culture. 3 Units
Term Typically Offered: Fall, Spring
A graduate-level survey of ancient Greek culture. Emphasis on social and private life, religion, historiography, literature, philosophy, drama, art, and architecture.
HRS 214. Ancient Roman Culture.  3 Units
Term Typically Offered: Fall, Spring
A graduate-level survey of Roman culture. Emphasis on social and private life, religion, historiography, literature, philosophy, drama, art, and architecture.

HRS 216. Historical Reflections on the American Dream.  3 Units
Term Typically Offered: Fall, Spring
Multicultural exploration of how our nation's history has been constructed, experienced, told and valued from varying ethno-cultural points of view, including each student's personal history.

HRS 217. Ordinary America.  3 Units
Term Typically Offered: Fall, Spring
Inquiry into the issues, theories, and methods associated with popular and material culture studies in order to provide students with insights into the past and present nature of American experience. Intended to be an exploration of the ways in which popular and material culture both reflect and contribute to the search for meaning in everyday life.

HRS 220. Seminar in Religious Studies.  3 Units
Term Typically Offered: Fall, Spring
Designed to offer a variety of topics in the study of religion. Seminar presents a rotating series of subjects ranging from ancient religious literature to contemporary religious problems.

HRS 222. Evolving Concepts of God: Portrait of Deity in Monotheistic Religions.  3 Units
Term Typically Offered: Fall, Spring
Seminar traces the historical origin and cultural evolution of the God concept in monotheistic religions. Topics include the archaeological record of humanity's earliest religious artifacts, evidence for the prehistoric worship of the "Great Goddess" figure, an examination of the polytheistic religions of the ancient Near East and their influence on the development of monotheism. Analyzes the evolving portrait of the Deity in the Hebrew Bible (Old Testament), the New Testament, and the Koran.

HRS 224. Religions of the Roman Empire.  3 Units
Term Typically Offered: Fall, Spring
Survey of the major religious beliefs and practices in the Greco-Roman world from 100B.C.E. -- 400C.E. Topics include traditional Greek and Roman religions, healing cults, philosophical religion and Gnosticism.

HRS 226. Wisdom and Apocalyptic Literature.  3 Units
Prerequisite(s): LIBA 200A or graduate status in History or instructor permission.
Term Typically Offered: Fall, Spring
Examines two of the more creative literary genres that make up the canonical and deuterocanonical literature of the Jewish and Christian bibles. Both the historical and theological underpinnings of wisdom and apocalyptic writing will be explored in-depth, with some consideration given to literary analogues in Egyptian, Mesopotamian and Greek culture. Significant research into wisdom and apocalyptic writings outside of the testamental framework required.
Cross Listed: LIBA 226; only one may be counted for credit.

HRS 228. Early Christian Literature.  3 Units
Term Typically Offered: Fall, Spring
Survey of the major genres of Christian literature in the first three centuries CE and their relationship to the development of Christian thought and institutions. Topics include the New Testament; Jewish-Christian literature; Gnostic Christian literature; apocryphal gospels, acts, epistles, and apocalypses; polemical literature; lives of saints; and canons and creeds produced by early church councils.

HRS 234. The Gothic Spirit.  3 Units
Term Typically Offered: Fall, Spring
Arts and ideas of the twelfth and thirteenth centuries in Western Europe, structured according to the principle of the "reconciliation of opposites." The Gothic period sees such opposites as faith and reason, vertical and horizontal (in architecture), counterpoint brought into harmony (in music). The period culminates in Dante's masterpiece, the Divine Comedy, which exhibits the reconciliation of opposites in such sets as female/male, faith/reason, human/divine, beauty/horror, and chaos/harmony.

HRS 235. Transcendence & Transgression in the Romantic Period.  3 Units
Term Typically Offered: Fall, Spring
Interdisciplinary study of Romanticism and other literary, philosophical, and artistic movements of the 18th and 19th centuries. Topics will vary from term to term.

HRS 236. Modernism: Contingent Realities of Self and World.  3 Units
Prerequisite(s): Contingent Realities of Self and World.
Term Typically Offered: Fall, Spring
Interdisciplinary studies in the arts of the modern era.

HRS 237. Global Citizenship and Culture.  3 Units
Term Typically Offered: Fall, Spring
This seminar is an exploration of how "the global" is conceptualized in an age with competing notions of the individual and the community. Special emphasis will be placed on race, class, ethnicity & gender to elucidate the many paths that thought, language, and identity take when traversing borders.

HRS 290B. Seminar in HRS: The Body.  3 Units
Prerequisite(s): Must be an HRS major or minor; Completion of 9 units of HRS lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring
Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines cultural constructions of the body through analysis of art and literature and through the insights of media studies, cultural studies, sociology, psychology, and anthropology. Cross listed: HRS 190B


**HRS 290C. Seminar in HRS: The Many Realities of Consciousness.**  
3 Units  
**Prerequisite(s):** Must be an HRS major or minor; Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite.  
**Term Typically Offered:** Fall, Spring  
Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines philosophies and theories of perception as applied to cultures, religious traditions, nature, film and literature. Investigates consciousness through examination of the subjectivity of human perception.  
Cross listed: HRS 190C

**HRS 290D. Seminar in HRS: Death & Afterlife.**  
3 Units  
**Prerequisite(s):** Must be HRS major or minor; Completion of 9 units of lower division core courses; Completion of the WPJ.  
**Term Typically Offered:** Fall, Spring  
Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines myths, theories, and perceptions of death and afterlife in cross-cultural and historical perspective through analysis of literature, the visual arts, and music.  
Cross listed: HRS 190D

**HRS 290H. Seminar in HRS: The Hero.**  
3 Units  
**Prerequisite(s):** Completion of 9 units of HRS lower division core courses and eligibility for WI classes based on the WPJ placement score or passage of the appropriate prerequisite.  
**Term Typically Offered:** Fall, Spring  
Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines the hero in cross-cultural and historical perspective through analysis of visual artifacts, literature, history, philosophy, music and film.  
Cross listed: HRS 190H

**HRS 290M. Saints, Relics, and Miracles in Late Antique and Medieval Europe.**  
3 Units  
**Prerequisite(s):** Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS majors or minors only.  
Seminar for graduate students in Department of Humanities and Religious Studies. Examines the role of the body in the creation of saints' cults in medieval Europe through analysis of literature and art. Considers how the idea of martyrdom set the terms for an ideal Christian life and explores the role relics, pilgrimage and miracle stories played in medieval society.  
Cross Listed: HRS 190M

**HRS 296. Experimental Offerings in Humanities & Religious Studies.**  
3 Units  
**Prerequisite(s):** Instructor permission.  
**Term Typically Offered:** Fall, Spring  
Special graduate-level experimental course on specific themes, figures or topic areas. Scheduled as needed.  
**Note:** May be taken twice for credit if topic differs.

**HRS 296E. Seminar in HRS: Envisioning the Divine.**  
3 Units  
**Term Typically Offered:** Fall, Spring  
Seminar for graduate students studying in the Department of Humanities and Religious Studies. Cross-cultural and trans-historical analysis of depictions of the divine in the visual, musical, and literary arts. Employs a modified seminar format, emphasizing analysis of primary and secondary material mainly by way of discussion.

**HRS 296S. Seminar in HRS: Storytelling & Myth in World Cultures.**  
3 Units  
**Term Typically Offered:** Spring only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the university. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provides students with the opportunity to interact with fellow classmates and the seminar leader to build community of academic support and personal support.

**ID 21. First Year Seminar: Becoming an Educated Person.**  
3 Units  
**General Education Area/Graduation Requirement:** Understanding Personal Development (E)  
**Term Typically Offered:** Fall, Spring  
Introduction to the nature and possible meanings of higher education, and the functions and resources of the university. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provides students with the opportunity to interact with fellow classmates and the seminar leader to build community of academic support and personal support.

**ID 96I. Experimental Offerings in Interdisciplinary Studies.**  
1 - 3 Units  
**Prerequisite(s):** Instructor permission.  
**Term Typically Offered:** Fall, Spring  
Opportunity for consideration of topics that cross disciplinary boundaries. Content will vary depending on the needs of students and interests of faculty.
ID 99. Special Problems. 1 - 4 Units
Term Typically Offered: Fall, Spring

Individualized directed projects or reading. Open to lower division students who present an adequately supervised plan of study. The course study should be interdisciplinary in nature and requires the approval of the faculty member under whom the individual work is to be conducted and of the Dean of the College of Social Sciences and Interdisciplinary Studies.
Credit/No Credit

ID 124. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature and forms of social justice and injustice. Addresses key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academic and social activism in achieving social justice.
Cross-listed: ANTH 130, ENVS 124, ETHN 124, FACS 124 and SOC 124.
Only one may be counted for credit.

ID 194. Experiential Learning. 1 - 6 Units
Term Typically Offered: Fall, Spring

Re-entry students may earn 1-6 units by documenting their interdisciplinary life/work experiences that meet the objectives of upper division university course work for an appropriate faculty member to evaluate. Approval of credit is granted by the Dean of the College of Social Sciences and Interdisciplinary Studies. Students must attend a workshop scheduled through the Academic Advising Center during the semester prior to registering for the course. Credit must be awarded prior to applying for graduation.
Credit/No Credit

ID 195. Field Experience. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised work experience of an interdisciplinary nature in an approved business, education, government or service agency. Students are required to engage in a minimum of three hours of supervised work per week for each semester unit of credit granted.
Note: May be repeated for credit up to a total of 6 units.
Credit/No Credit

ID 195A. Introductory Field Experience in Peer Health Education. 2 - 3 Units
Term Typically Offered: Fall, Spring

Hands-on experience working in Student Health and Counseling Services’ Health and Wellness Promotion department. Instruction covers basic theory and practice of peer health education. Under supervision, students function as Peer Health Educators, providing peer outreach and education on key college health issues. Students complete 2-3 units per semester. Participants are expected to commit to both ID 195A and ID 195B, for up to 6 units of total credit.
Credit/No Credit

ID 195B. Intermediate Field Experience in Peer Health Education. 2 - 3 Units
Prerequisite(s): ID 195A and instructor permission.
Term Typically Offered: Fall, Spring

Continued hands-on experience working in Student Health and Counseling Services’ Health and Wellness Promotion department. Instruction covers intermediate theory and practice of peer health education. Under supervision, students function as Peer Health Educators, providing peer outreach and education on key college health issues. Students complete 2-3 units per semester. Participants are expected to commit to both ID 195A and ID 195B, for up to 6 units of total credit.
Credit/No Credit

ID 195C. Advanced Field Experience in Peer Health Education. 1 - 2 Units
Prerequisite(s): ID 195A, ID 195B, and instructor permission.
Term Typically Offered: Fall, Spring

Further explores the theory and practice of peer education while building advanced leadership skills. Includes both academic and experiential aspects, allowing students to develop a deeper understanding of key college health issues, presentation skills, and program planning. Students serve as mentors and assistant trainers to Peer Health Educators, plan and implement campus events, and present classes to peer groups on campus.
Credit/No Credit

ID 196. Advanced Experimental Offerings in Interdisciplinary Studies. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Opportunity for in-depth consideration of topics that cross disciplinary boundaries. Content will vary on the needs of the students and interests of faculty.

ID 197. Training and Leadership for Orientation Leaders. 3 Units
Term Typically Offered: Fall, Spring

Introduce participants to concepts in peer advising and orientation at Sacramento State. Students will learn about the philosophy and purpose of orientation, academic policies, student services and campus facilities. Class activities are planned to help develop the leadership, interpersonal and communication skills necessary to be an effective peer adviser and campus representative.
Note: May be repeated for credit up to 6 units.
Credit/No Credit

ID 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work. Generally will involve two or more of the major academic administrative units of the university. Admission requires the approval of the faculty member under whom the individual work is to be conducted and of the Dean of the College of Social Sciences and Interdisciplinary Studies.
Credit/No Credit
**Interior Design (INTD)**

**INTD 15. Introduction to Interior Design.**

General Education Area/Graduation Requirement: Arts (Area C1)

Term Typically Offered: Fall, Spring

Introduction to the field of interior design. Consideration of human factors, aesthetics, design process, furnishings, surface treatments, and current issues. Lecture, discussions, field trips, two hours.

Field trips may be required.

**INTD 20. Design.**

General Education Area/Graduation Requirement: Arts (Area C1)

Term Typically Offered: Spring only

Examination of the visual arts as expressed in architecture and interiors, community planning, painting and sculpture, furniture, ceramics, graphics, photography, clothing, and industrial design. Lecture, discussion.

**INTD 25. Design Fundamentals.**

Term Typically Offered: Fall, Spring


**INTD 27. Introduction to Interior Architecture Studio.**

Term Typically Offered: Fall, Spring

Prerequisite(s): INTD 25, INTD 30 Fee course.

Exploration of design and space planning fundamentals and their use in creating architectural interiors. Students will communicate designs through two- and three-dimensional drawings and models.

**INTD 30. Introduction to Computer Aided Design.**

Term Typically Offered: Fall, Spring

Prerequisite(s): INTD 25 or concurrent registration in INTD 25 is permissible if student has completed either GPHD 25 or PHOT 11.

Introduction to the principles and techniques of architectural drafting. Through a series of exercises, students will learn digital drafting techniques commonly used to generate floor plans, sections, elevations, and axonometrics. Through a series of design problems, students will also be introduced to basic space planning concepts and vocabulary. Emphasis will be on CAD drawing skills and conventions, CAD vocabulary, and CAD document management procedures.

**INTD 96. Introduction to Interior Architecture Studio and CAD.**

Term Typically Offered: Fall, Spring

Exploration of design and space planning fundamentals and their use in creating architectural interiors, as well as an introduction to the principles and techniques of architectural drafting. Through a series of design problems students will engage with basic space planning concepts and vocabulary as well as CAD drawing skills and conventions.

**INTD 123. Survey of Western Architecture and Interiors.**

Term Typically Offered: Fall only

Survey of European and American buildings, interiors, furniture and decorative arts from the stone age through the twentieth century. We will look at individual works as representative of trends in design history and as reflections of broad cultural forces: economic, political, etc.

**INTD 124A. American Design.**

Term Typically Offered: Fall, Spring

Survey of high-style and vernacular buildings, interiors, and decorative arts from the 17th century to the beginning of World War I. Analyzes European, Asian, Hispanic/Latino/Chicano and other background sources of inspiration and influence. Lecture-discussion.

**INTD 124D. Principles of House Design.**

Term Typically Offered: Fall, Spring

Introduction to some of the major architectural movements of the 20th Century; discussion of environmental concerns as they relate to house design; study of basic principles in planning a house. Lecture, discussion, field trip.

Field trips may be required.

**INTD 124E. Film/Design.**

Term Typically Offered: Fall, Spring

Students will explore design approaches that give films a feeling of suspense, create a sense of place, or establish a period in time. This course will increase student awareness of space in filmmaking, and demonstrate that spatial organization plays a key role in the aesthetic success of a motion picture.
INTD 124F. Avant Garde Cinema. 3 Units
Prerequisite(s): ENGL 97 or PHOT 102.
Term Typically Offered: Spring only
Survey of experimental film from the beginning of the cinema in the 1890s through today’s avant garde. Emphasis filmmaking as a means of personal, artistic expression, and will pay particular attention to those aspects of cinema that are typically ignored or marginalized in mainstream Hollywood movies. Films studied include those by: Melies, Porter, Richter, Leger, Cornell, Deren, Brakhage, Jacobs and Gehr.
Cross listed: FILM 124F.

INTD 125. Urban Design and Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
A history of urban design from Ancient Greece through today. The course will look at the conceptualizing, planning and development of cities through two distinct lenses: one focusing on visual and physical qualities, the other on how urban planning has been used to promote social/economic policy, political ideologies and institutions. Lecture, discussion.
3 units . GE Area D.

INTD 151. Interior Architecture Graphics I. 3 Units
Prerequisite(s): Grade "C" or better in each of the following courses:
INTD 15, INTD 20, INTD 25, INTD 30, GPHD 20, GPHD 25, PHOT 11, PHOT 20, DSGN 4 AND average G.P.A. 3.0 or better in the following classes: INTD 25, INTD 27, INTD 30
Corequisite(s): INTD 153 and either INTD 155 or INTD 165
Term Typically Offered: Fall, Spring
Emphasis will be on developing perspective and rendering capabilities, as well as on developing techniques for the execution of furniture, fabric, and color boards. Studio activity six hours.

INTD 153. Interior Design Studio I. 3 Units
Prerequisite(s): Grade "C" or better in each of the following courses:
INTD 15, INTD 20, INTD 25, INTD 30, GPHD 20, GPHD 25, PHOT 11
Corequisite(s): INTD 151 and either INTD 155 or INTD 165
Term Typically Offered: Fall, Spring
Introductory studio course with emphasis on understanding functional and formal elements of architectural interiors. Students will communicate designs through two- and three-dimensional drawings and models. Studio activity six hours.

INTD 155. Professional Practice I. 3 Units
Prerequisite(s): INTD 15 and INTD 30.
Term Typically Offered: Fall only
Study of the concepts and the analysis of technical and aesthetic applications of lighting design in both residential and commercial interiors. Lecture, discussion, field trips. Field trip(s) may be required.

INTD 157. Professional Practice II. 3 Units
Prerequisite(s): INTD 15 and INTD 30.
Term Typically Offered: Spring only
Continuation of the principles and techniques used in INTD 30. Students will be introduced to three different modeling techniques - wireframe, surface and solid. Emphasis will be on the construction of 3D CAD models as a means for quickly generating design alternatives. Topics include 3D modeling concepts and techniques, the behavior of materials with light, material characteristics and textures, and computer rendering output methods. Studio activity six hours.

INTD 161. Interior Design Graphics II. 3 Units
Prerequisite(s): Grade "C" or better in each of the following courses:
INTD 151, INTD 153 and either INTD 155 or INTD 165.
Corequisite(s): INTD 163 and either INTD 155 or INTD 165.
Term Typically Offered: Fall, Spring
Continuation of the principles and techniques used in INTD 30. Students will be introduced to the different presentation types that are utilized including CAD as a 2D rendering and presentation tool. Emphasis will be on file setup, composition and layout of projects within the schematic design, design development, and construction document phases of design. Assignments will demonstrate typical design applications commonly used in the interior design/architecture professions including systems furniture planning and tenant improvement. Studio activity six hours.

INTD 163. Interior Architecture Studio II. 5 Units
Prerequisite(s): INTD 151, INTD 153 and either INTD 155 or INTD 165.
Corequisite(s): INTD 161 and either INTD 155 or INTD 165. Fee course.
Term Typically Offered: Fall, Spring
Prerequisite: An intermediate studio course where students continue to develop their understanding of functional and formal elements of architectural interiors. Students will communicate designs through two- and three-dimensional drawings and models. Studio activity six hours.
Note: $22 for printing and miscellaneous materials
Fee course.

INTD 165. Professional Practice II. 3 Units
Prerequisite(s): INTD 15 and INTD 30.
Term Typically Offered: Spring only
Development of selection criteria for interior finishes based on material properties, cost and availability. An introduction to non-structural interior construction including wood and light gauge steel systems will be studied. Additional topics will include MEP systems, ceiling systems, and casework. Lecture/field trips.
Field trip(s) may be required.

INTD 171. Interior Design Graphics III. 3 Units
Prerequisite(s): Grade "C" or better in each of the following courses:
INTD 161, INTD 163 and either INTD 155 or INTD 165.
Corequisite(s): INTD 173 and either INTD 175 or INTD 195.
Term Typically Offered: Fall, Spring
Continuation of the principals and techniques used in INTD 30 and INTD 161. Students will become familiar with the basic vocabulary and concepts of three-dimensional modeling. Students will be introduced to three different modeling techniques - wireframe, surface and solid. Emphasis will be on the construction of 3D CAD models as a means for quickly generating design alternatives. Topics include 3D modeling concepts and techniques, the behavior of materials with light, material characteristics and textures, and computer rendering output methods. Studio activity six hours.
INTD 173. Interior Architecture Studio III. 5 Units
Prerequisite(s): INTD 161, INTD 163 and INTD 165.
Corequisite(s): INTD 171 and either INTD 175 or INTD 195. Fee course.
Term Typically Offered: Fall, Spring

Advanced studio course where students continue to develop their understanding of functional and formal elements of architectural interiors. Students will communicate designs through two- and three-dimensional drawings and models. Studio activity six hours.

Note: $50.00 for three-dimensional printing of physical models and misc.

Fee course.

INTD 175. Professional Practice III. 3 Units
Prerequisite(s): Grade "C" or better in each of the following courses: INTD 161, INTD 163 and INTD 165.
Term Typically Offered: Fall only

Study of the professional role of the interior designer in relation to that of the client, contractor and consultants. Legal and ethical issues are explored. Building codes, life-safety codes and ADA requirements are studied with emphasis on permit and plan-check requirements. Preparation for the NCIDQ exam and certification procedures are covered.

INTD 181. Interior Design Graphics IV. 3 Units
Prerequisite(s): Grade "C" or better in each of the following courses: INTD 171, INTD 173 and either INTD 175 or INTD 195.
Corequisite(s): INTD 183 and either INTD 175 or INTD 195.
Term Typically Offered: Fall, Spring

Interdisciplinary approach to prepare students for professional practice in the field of Interior Design. Student will be expected to complete a comprehensive portfolio of work.

INTD 183. Interior Architecture Studio IV. 5 Units
Prerequisite(s): INTD 171, INTD 173 and either INTD 175 or INTD 195.
Corequisite(s): INTD 181 and either INTD 175 or INTD 195. Fee course.
Term Typically Offered: Fall, Spring

Thesis studio in which students research and develop individual design projects. Students will draw upon knowledge and skills from previous coursework to create solutions to complex design problems. Projects are completed with assistance from instructor, client and working professionals. Students are required to submit a design proposal for instructor approval in the Fall. Studio activity six hours.

Note: $22 for printing and miscellaneous materials

INTD 185. Pro Practice - Career Preparation. 3 Units
Term Typically Offered: Fall, Spring

Professional practice course supporting students in the development of their professional architectural portfolio, resume, and self-marketing tools. Required guest lectures, professional networking, and career guidance events with oral, written, and verbal self-reflection activities. Open to Interior Architecture majors only.

INTD 195. Professional Practice IV-Internship. 3 Units
Prerequisite(s): Grade "C" or better in each of the following courses: INTD 161, INTD 163, INTD 165.
Term Typically Offered: Fall, Spring

Direct work experience in approved architecture, design, corporate, private or government office. Supervision is provided by both the instructional staff and the cooperating agency.

Credit/No Credit

INTD 196. INTD 196- Professional Preparation. 3 Units
Prerequisite(s): Grade "C" or better in INTD 161, INTD 163.
Term Typically Offered: Fall, Spring

resume, and self-marketing tools. Required guest lectures, professional networking, and career guidance events with written and verbal self-reflection activities. Open to Interior Architecture majors only.

INTD 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Departmental petition required.

Credit/No Credit

International Business (IBUS)

IBUS 180. Sustainability Business in Global Economy. 3 Units
Term Typically Offered: Fall

Introduces students to the emerging field of sustainability in business and the growing focus on the social, environmental, and economic performance of businesses in global economy. The course presents scientific, moral, and business cases for adopting sustainability.

IBUS 190. International Business. 3 Units
Term Typically Offered: Fall, Spring, Summer

Analyzes international business: foreign markets; export-import trade; licensing agreements; foreign exchange problems; role of the multinational firm; intergovernmental trade agreements; balance of payments; decision making in foreign environments.

IBUS 195. Internship in International Business. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.

Note: Open to upper division students, subject to permission of the Management Area. Open to declared business administration majors only. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit
IBUS 199. Special Problems in International Business. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.

Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Center, Tahoe 1030.

Credit/No Credit

International Masters in Business Administration (IMBA)

IMBA 210. Managerial Accounting. 3 Units
Term Typically Offered: Fall, Spring

A consistent emphasis on managerial accounting and reporting is cost identification, allocation and control. This course expands the traditional view of accounting to include an examination of the integration of the historic three tools with cost elements. This expanded view would include environmental and political costs, compliance with multinational reporting standards, tax compliance and treaty costs.

IMBA 211. Global Corporate Finance. 3 Units
Term Typically Offered: Fall, Spring

Provides students a well-rounded understanding of the language and financial expectations/performance of organizations. Candidates will learn how to evaluate decisions from the perspective of shareholder and stakeholders. With this perspective they will be better equipped to make better business decisions and also understand the financial impact of those decisions.

IMBA 213. Marketing Management. 3 Units
Term Typically Offered: Fall, Spring

Presents how modern marketing principles can be applied to real-world situations. The emphasis will be on studying strategies used by organizations in today's highly competitive and evolving marketplace. Case studies will be utilized to fully develop techniques for creating marketing programs given varying levels of resources and information available under diverse market conditions.

IMBA 214. Statistical Decision Making. 3 Units
Term Typically Offered: Fall, Spring

Presents how business decisions are now made in an increasingly competitive and complex business environment. The emphasis will be on how to better respond to this challenge by using quantitative methods to forecast, extrapolate, analyze, and simulate a business situation for effective decision-making. Case studies will be used to develop those capabilities.

IMBA 215. Information Technology Management. 3 Units
Term Typically Offered: Fall, Spring

Covers the major challenges organizations deal with today as they attempt to manage their key technological resources as well as with implementing technological innovations. Addresses the digital opportunities and threats organizations face from senior management perspectives.

IMBA 216. Human Resource Management in Intl Perspective. 3 Units
Term Typically Offered: Fall, Spring

Reviews the organization theory from a macro perspective (structure, process, technology, people, and culture). Special attention will be paid to organization structure, human resources, design, control, culture and inter-organizational relationship.

IMBA 217. Business Law and Legal Environment. 3 Units
Term Typically Offered: Fall, Spring

Addresses such topics as comparative legal environments in international business, dispute settlement, foreign investment, money and banking, trade in goods, services and labor, intellectual property, sales, transportation, financing and taxation, multinational enterprise, and ethical standards and the responsible roles of business in international society.

IMBA 220. Legal Environment of International Business. 3 Units
Term Typically Offered: Fall, Spring

Examines in detail the global business operations within the context of today's international trade. International trade has an era typified by unprecedented worldwide production and distribution. Provides students with and understanding of these changes, and their impact on international trade. The primary objective is to prepare students to identify and respond to new opportunities and challenges in international trade.

IMBA 231. Global Financial Institutions and Markets. 3 Units
Prerequisite(s): IMBA 211.
Term Typically Offered: Fall, Spring

Introduces students to the principles and dynamics of international financial markets and institutions. Addresses the operational aspects of global financial institutions with the emphasis on foreign exchange risk management problem. The major objective is to have students develop an operational understanding of the financial problems faced by nations as well as the local and multinational corporation.

IMBA 232. International Trade. 3 Units
Prerequisite(s): IMBA 231.
Term Typically Offered: Fall, Spring

Examines in detail the global business operations within the context of today's international trade. International trade has an era typified by unprecedented worldwide production and distribution. Provides students with and understanding of these changes, and their impact on international trade. The primary objective is to prepare students to identify and respond to new opportunities and challenges in international trade.

IMBA 233. International Investments. 3 Units
Prerequisite(s): IMBA 231.
Term Typically Offered: Fall, Spring

The main objective is to provide students with a framework for making financial decisions in the international business arena. To this end, relevant features of exchange rate instruments and their determination, international equity markets, international investments will be covered. Also addressed is the issue of exposure to foreign exchange rate risk and associated hedging strategies.

IMBA 234. Contemporary Issues in International Finance. 3 Units
Prerequisite(s): IMBA 231.
Term Typically Offered: Fall, Spring

Focuses on exploring contemporary issues in international finance. Emphasis is placed on exploring and discussing: new financial investment instruments and consideration of the risk and return of the Venture Capital firms as an investment vehicle; the U.S. based Private Equity Funds around the world and the tools and techniques for managing foreign exchange risk; and the process of Initial Public Offerings (IPO) in different economies.
IMBA 241. Comparative International Management. 3 Units
Prerequisite(s): IMBA 216.
Term Typically Offered: Fall, Spring

Takes a global perspective in dealing with management issues in both foreign and diverse host environments. Communication and cross-cultural management issues are addressed in the context of changing global environments, especially in rapidly growing regions and countries.

IMBA 242. Multinational Corporate Management. 3 Units
Prerequisite(s): IMBA 216.
Term Typically Offered: Fall, Spring

Focuses on managerial challenges associated with developing strategies and managing operations of multinational corporations (MNCs) where activities stretch across national boundaries. A cross-cultural and functional perspective is adopted in investigating MNCs’ operating environments and competitive strategies through the analysis and discussion of selected case materials.

IMBA 243. Global Supply Chain Management. 3 Units
Prerequisite(s): IMBA 216.
Term Typically Offered: Fall, Spring

Introduces the major concepts and tools for the delivery of enhanced customer and economic value through global synchronized management of the flow of physical goods and associated information from sourcing to consumption. Includes key topics in purchasing, supply chain management, and distribution and logistics management.

IMBA 244. Project Management. 3 Units
Prerequisite(s): IMBA 216.
Term Typically Offered: Fall, Spring

Covers all phases of managing projects, from project selection to project termination. Specific topics include project life cycle, project selection methods, planning and scheduling techniques, accounting and budgeting methods, resource allocation, procurement and contract negotiation, organizational and ethical issues, and project termination. Current issues and cases will also be discussed, and software systems, such as MS Project and Internet-based file sharing systems will be incorporated into relevant portions of the course.

IMBA 251. Information Technology Resource Management. 3 Units
Prerequisite(s): IMBA 215.
Term Typically Offered: Fall, Spring

Examines the management of information technology as a vital resource to an organization. As a vital resource, the business must effectively and efficiently manage and secure its IT resources.

IMBA 252. Enterprise Information Technology Planning. 3 Units
Prerequisite(s): IMBA 215.
Term Typically Offered: Fall, Spring

As an organizational integrator, IT presents many new opportunities at the enterprise level to design and implement new organizational structures and business processes. Enterprise IT primarily involves enterprise resource planning (ERP), supply chain management (SCM), knowledge management (KM) and customer relationship management (CRM) to support and seamlessly coordinate business activities.

IMBA 253. Strategic Information Technology Planning. 3 Units
Prerequisite(s): IMBA 215.
Term Typically Offered: Fall, Spring

Strategic IT planning defines the direction a business chooses to direct its IT resources. It encompasses a vision, mission, strategy and objectives that closely align to the business’ vision, mission, strategy and objectives. Planning involves examining how IT will support the achievement of the business’ goals and objectives, and how IT can open new opportunities to create new business goals.

IMBA 254. Information Technology Project Management. 3 Units
Prerequisite(s): IMBA 215.
Term Typically Offered: Fall, Spring

Implementing IT initiatives requires a business to not only carefully evaluate their alignment to the business’ goals and objectives, but to identify and assess risks that they present. Selecting projects requires a comparison of their feasibility, complexity, scalability and impact. A project portfolio provides a means to direct the right resources to the right projects to ensure their completion at the right time. Plans must be developed and key performance measures identified and tracked.

IMBA 255. Information Technology Leadership. 3 Units
Prerequisite(s): IMBA 215.
Term Typically Offered: Fall, Spring

Leadership plays an important role in determining a business’ success with IT. It requires recognizing and leveraging the business’ competencies and core values, and championing initiatives and projects that work in the best interest of the business and create value. Examines the various elements that comprise IT leadership.

IMBA 256. Experimental Offerings in Executive Management. 3 Units
Term Typically Offered: Fall, Spring

When a sufficient number of qualified students apply, a faculty member may conduct a seminar on a designated advanced topic in executive management.

Note: May be repeated for credit

IMBA 299. Special Problems in Business. 1 - 3 Units
Prerequisite(s): Classified graduate standing or instructor approval
Term Typically Offered: Fall, Spring

Individual projects or directed readings for students qualified to carry on in independent work.

Note: Enrollment requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions to be obtained from the Graduate Business Advising Center (GBAC).
IMBA 500. Leadership and Change Management. 3 Units
Prerequisite(s): Must complete five of the following: IMBA 210, IMBA 211, IMBA 213, IMBA 214, IMBA 215, IMBA 216 and IMBA 217
Corequisite(s): May be concurrently enrolled in two of the following: IMBA 210, IMBA 211, IMBA 213, IMBA 214, IMBA 215, IMBA 216 and IMBA 217
Term Typically Offered: Fall, Spring

Advanced studies of leadership in business organizations. The key themes of the course are leading teams and leading during times of change. An integral part of the course is to study current business leaders and analyze their leadership practices. Leadership is studied in an integrated fashion based on different business functions and industrial experiences. Successful completion of this course satisfies the culminating experience for the IMBA program.

Italian (ITAL)

ITAL 1A. Elementary Italian. 4 Units
Term Typically Offered: Fall only
Focuses on the development of the four basic skills (understanding, speaking, reading, writing) through the presentation of many cultural components (two per week) which illustrate the Italian “modus vivendi;” social issues, family, food, sports, etc.

ITAL 1B. Elementary Italian. 4 Units
Prerequisite(s): ITAL 1A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring
Continuation of ITAL 1A with greater emphasis on reading, writing. Addition of one reader which contains more cultural material (geography, political issues, government, fashion, etc.).

ITAL 2A. Intermediate Italian. 4 Units
Prerequisite(s): One year college Italian or suitable score on placement exam.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall only
Intermediate course in the Italian language with emphasis on speaking, reading and writing ability; review of grammar; discussions and compositions in Italian. Meets the Foreign Language Graduation Proficiency Requirement.

ITAL 2B. Intermediate Italian. 4 Units
Prerequisite(s): ITAL 2A or suitable score on placement exam.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring
Continuation of ITAL 2A. Meets the Foreign Language Graduation Proficiency Requirement.

ITAL 102. Italian Advanced Conversation. 3 Units
Prerequisite(s): ITAL 2B or instructor permission.
Term Typically Offered: Fall, Spring
Designed to develop oral fluency through free discussion on prepared topics, and supervised practice to develop audio-lingual skills at the advanced level. Course conducted in Italian. May be taken for credit twice.

ITAL 103. Advanced Grammar and Composition. 3 Units
Prerequisite(s): ITAL 2B or equivalent.
Term Typically Offered: Fall, Spring
Study of grammar and style and their application in oral and written exercises, in translations and in compositions.

ITAL 104A. Introduction to Italian Cinema I. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
Italian Cinema from the 1940’s to its Golden Period in the 1960’s through the 1970’s. Films will be viewed in their cultural, aesthetic and/or historical context. Readings and guiding questionnaires will help students develop appropriate viewing skills. Films will be shown in Italian with English subtitles.

ITAL 104B. Introduction to Italian Cinema II. 3 Units
Term Typically Offered: Fall, Spring
Focuses on Italian Cinema from the 1980’s and the 1990’s. The “New Generation” of Italian Directors will be considered (Nanni Moretti, Gabriele Salvatores, Maurizio Nichetti, Giuseppe Tornatore, Roberto Benigni, Lilian Cavani, Fiorenza Infascelli, Francesca Archibugi, etc.) as well as current productions. Films will be shown in Italian with English subtitles.

ITAL 110. Introduction to Italian Literature I. 3 Units
Prerequisite(s): Upper division status and instructor permission.
Term Typically Offered: Fall only
Beginning and major developments of the literature of Italy from the Middle Ages through the Baroque period of the 17th Century. Analyzes the literary movements with emphasis on their leading figures, discussion of literary subjects, instruction in the preparation of reports on literary, biographical and cultural topics. Taught in Italian.

ITAL 111. Introduction to Italian Literature II. 3 Units
Prerequisite(s): Upper division standing and instructor permission.
Term Typically Offered: Fall, Spring
Major developments in the literature of Italy from the Enlightenment movement of the 18th Century through the 20th Century. Analysis of the literary movements with emphasis on their leading figures, discussion of literary subjects, instruction in the preparation of reports on literary, biographical, and cultural topics. Taught in Italian.

ITAL 130. Italian Civilization: The Dialogue Form It's Origins and European Context. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Focus on Italian civilization in a Mediterranean context. Allows students to develop a critical understanding of the dialogue in the context of Italian and Western Civilization, from its origins in Ancient Egypt and Greece, to its flowering in the Renaissance and its return during the Enlightenment, to its endurance in modern times. Issues emphasized are philosophical and literary movements in their historical contexts. Socratic dialogue and other related genres, the dialogue as a typical Renaissance form with a variety of perspectives (feminine, poetic, satirical, etc.) the Enlightenment thinkers in Italy and France and their modern heritage are studied. Taught in English.
ITAL 131. The Italian Renaissance and Its Influence on Western Civilization. 3 Units
Term Typically Offered: Fall, Spring

Taught in English, explores the phenomenon of the Italian Renaissance in its literary, artistic, religious, social, historical, scientific, and economic aspects through the analysis of the period's major works, and through films, slides, lectures and discussions. The issues to be emphasized are the uniqueness of the Italian contribution to new ideas and values, and their influence on Western Civilization. The students will learn to recognize the sources and the effects of the Italian Renaissance within the integrated context of Western culture and various fields of knowledge.

ITAL 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in Italian and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses the language skills developed through previous study of Italian. The projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. Can be taken more than once for credit.

ITAL 195. Fieldwork - Tutoring. 1 - 3 Units
Prerequisite(s): Student with native or near-native fluency in Italian and upper division status; or instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division Italian students, under the supervision of an instructor. Three hours of tutoring per week for each unit.
Note: May be repeated until a maximum of 6 units is reached.

ITAL 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Japanese (JAPN)

JAPN 1A. Elementary Japanese. 5 Units
Term Typically Offered: Fall only

Develops elementary spoken Japanese, reading and writing in Kana and Kanji, and the practical skills required to effectively use the modern language. Emphasis on the culture, customs, and traditions of Japan.

JAPN 1B. Elementary Japanese. 5 Units
Prerequisite(s): JAPN 1A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Spring only

Continuation of JAPN 1A, with emphasis on speaking, vocabulary, reading, grammar, speech patterns, and cultural knowledge. The Kana and Kanji writing systems, geography, and aspects of Japanese customs and manners are included.

JAPN 1C. Accelerated Elementary Japanese. 8 Units

This is an intensive introductory Japanese language course equivalent to one year of first-year Japanese (JAPN 1A and JAPN 1B) concentrated in one semester. Class meets four times a week for two hours a period and progresses at an accelerated pace. The course provides a solid foundation in the four language skills—listening, speaking, reading, and writing. In addition, students will acquire cultural knowledge necessary for appropriate communication and smooth functioning in Japanese society. Students enrolling in JAPN 1C must be able to read and write hiragana and katakana, the two basic phonetic syllabaries.

JAPN 2A. Intermediate Japanese. 4 Units
Prerequisite(s): JAPN 1A, JAPN 1B; or equivalent.

General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall only

Emphasis on speaking, reading, and grammatical skills through dialogues, discussions, and reading. Meets the Foreign Language Graduation Proficiency Requirement.

JAPN 2B. Intermediate Japanese. 4 Units
Prerequisite(s): JAPN 2A or equivalent.

General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of JAPN 2A. Further development of speaking, reading, grammar, and composition skills. Meets the Foreign Language Graduation Proficiency Requirement.

JAPN 110. Introduction to Japanese Literature. 3 Units
Prerequisite(s): JAPN 2B or instructor permission.
Term Typically Offered: Spring only

Introduction to Japanese literature from the 10th century to the present. The various forms of Japanese classic and contemporary literature will be surveyed through the selective reading of representative works. Class will be conducted in both Japanese and English.

JAPN 116A. Third Year Japanese 1 - Language and Culture of Japan. 4 Units
Prerequisite(s): JAPN 2B or equivalent.
Term Typically Offered: Fall only

This course is the first in a two-semester series in advanced (third-year) Japanese. It is designed to expose students to the practical use of advanced structures and to further develop the four language skills—listening, speaking, reading and writing. Students will also acquire cultural knowledge necessary for appropriate communication at the advanced level. Taught in Japanese. This course counts towards the Japanese Minor.

JAPN 116B. Third Year Japanese 2 - Language and Culture of Japan. 4 Units
Prerequisite(s): JAPN 116A or the equivalent.
Term Typically Offered: Spring only

This course is a continuation of JAPN116A. JAPN116B is the second in a two-semester series in advanced (third-year) Japanese. It is designed to expose students to the practical use of advanced structures and to further develop the four language skills—listening, speaking, reading and writing. Students will also acquire cultural knowledge necessary for appropriate communication at the advanced level. Taught in Japanese. This course counts towards the Japanese Minor.
JAPN 120. Japanese Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

A broad survey of Japanese civilization from ancient to contemporary times, focusing on the overarching themes of continuity and change. Exploration includes Japanese geography, traditional aesthetics, warrior ethos, rapid modernization, postwar culture, popular culture, among others. Materials drawn predominantly from the fields of literature, film, and history.

JAPN 128. Introduction to Japanese Popular Culture. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

A survey of major forms of Japanese popular culture from the postwar period to the present with a focus on genre and narrative. Genres include anime, shojo manga, Jpop, popular fiction, and fandom. Emphasis on close reading and analysis of the texts/films. No knowledge of Japanese language or culture is required.

JAPN 150. Advanced Japanese Grammar, Conversation. 3 Units
Prerequisite(s): JAPN 2B or instructor permission.
Term Typically Offered: Fall only

Review of general principles of Japanese grammar and study of advanced grammar and their application in oral and written exercises and projects such as speeches, presentations, and translations.

JAPN 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in Japanese and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses the language skills developed through previous study of Japanese. The projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. Can be taken more than once for credit. Credit/No Credit

JAPN 195. Fieldwork -- Tutoring. 1 - 3 Units
Prerequisite(s): Advanced students who have native or near native fluency or upper division status, or instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division Japanese students, under the supervision of an instructor. 3 hours of tutoring per week for each unit. Credit/No Credit

JAPN 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects, or directed reading. Open only to students competent to carry on independent study.
Note: Departmental petition required.
Credit/No Credit
JOUR 123. Writing for Public Relations. 3 Units
Prerequisite(s): JOUR 30; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENG 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Term Typically Offered: Fall, Spring, Summer
Organization and operation of communication media; practice in publicity and public relations techniques. Emphasis on clear writing and correct public relations formats such as releases, PSAs, articles, and speeches.
Note: Computer familiarity (MAC-OS) recommended. Cross listed: COMS 123

JOUR 125. Multimedia Storytelling. 3 Units
Prerequisite(s): JOUR 30
Term Typically Offered: Fall, Spring
Principles and techniques of reporting and writing news for radio, television, podcasts, social media, and other emerging media platforms. Field and laboratory experience, including basic multimedia story production.

JOUR 128. News Editing. 3 Units
Prerequisite(s): JOUR 20, JOUR 30.
Term Typically Offered: Fall, Spring
Introduction to the role of the editor in contemporary news production. Instruction in story assigning and digital editing, headline/caption writing, photo/visual selection, identifying story treatments, and web tools including search engine optimization and audience analytics. Lab sessions include story/copy editing, fact-checking exercises, headline/caption writing, photo/visual selection, analysis and application of audience metrics in story assignments, and other editorial work.

JOUR 130A. News Reporting I. 3 Units
Prerequisite(s): JOUR 20, JOUR 30.
Corequisite(s): JOUR 130B.
Term Typically Offered: Fall, Spring
Instruction and practice in journalistic research, interviewing, and reporting skills.
Note: Computer familiarity (MAC-OS) recommended.

JOUR 130B. News Reporting II. 3 Units
Prerequisite(s): JOUR 30.
Corequisite(s): JOUR 130A.
Term Typically Offered: Fall, Spring
Practice in covering a news beat, producing news and feature stories on a weekly basis. Instruction includes reporting on local government.

JOUR 131. Data Journalism. 3 Units
Prerequisite(s): JOUR 30; may be taken concurrently.
Term Typically Offered: Fall, Spring
Instruction and practice in finding, analyzing, visualizing and using data for journalism.

JOUR 132. Digital Magazine. 3 Units
Prerequisite(s): JOUR 30 or instructor permission.
Term Typically Offered: Fall, Spring
Conceiving, reporting, and writing feature articles for magazines in print and online. In addition to improving writing skills, students will learn how to identify freelance opportunities, pitch stories, analyze published work, and produce articles for a digital magazine published by the class.

JOUR 134. War, Peace and the Mass Media. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring, Summer
Concerned with the relationship of mass media to war and the possibilities for peace, with emphasis on recent concepts of political communication.
Cross Listed: GOVT 134; only one may be counted for credit.

JOUR 153. Journalism Law and Ethics. 3 Units
Term Typically Offered: Fall, Spring
Examines the laws, regulations, and ethical principles that govern print, broadcast, and electronic journalism in the U.S. The process by which laws and regulation are enacted and interpreted and the development of socially responsible journalistic practice are discussed.
Cross Listed: COMS 153; only one may be counted for credit

JOUR 158. Public Relations Planning and Management. 3 Units
Prerequisite(s): COMS 118 and JOUR 123 or COMS 123 with grade of "C-" or better.
Term Typically Offered: Fall, Spring
Application of theoretical concepts to the solution of problems for pre-selected non-profit and campus clients by forming small group PR agencies; completing needs assessments; profiling target and secondary audiences; developing and implementing a strategic public relations plan; producing targeted messages for media kits and other uses; and making formal in-class presentations to peers, clients and invited PR professionals. Students will also learn how to negotiate contracts, maintain client relations, track work on projects and develop timelines and budgets.
Cross Listed: COMS 158; only one may be counted for credit.

JOUR 172. Women in the Mass Media. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only
Examination of women's role in the mass media, with particular emphasis on news reporting and advertising. Includes discussion of women's role in media industries. Culminates in a final project.

JOUR 175. Minorities, Social Change and the Press. 3 Units
Term Typically Offered: Fall only
Examination of the relationship between historically underrepresented groups and the news media. Provides a critical analysis and discussion of the role played by the news media in racial, cultural, and social change in the U.S. and explores how the news media can create a more pluralistic society.
JOUR 193. The Media Business. 3 Units
Term Typically Offered: Fall, Spring

Examination of business models and concepts influencing the contemporary news media industry. Study the traditional financial structures of media publications, evaluate opportunities in media entrepreneurship and develop business plans for publications.

JOUR 194. Journalism Related Work Experience. 3 - 6 Units
Term Typically Offered: Fall, Spring

Supervised employment in a company or agency working on journalism-related assignments, arranged through the Department of Communication Studies and the Cooperative Education Program office. Requires preparation of application packet, completion of a 6 month full-time or part-time work assignment, and a written report.

Note: Open only to upper division or graduate students with appropriate course preparation. Units MAY NOT be used to meet the Journalism major or minor. Consent of Communication Studies Department advisor required. No more than 12 units will count toward the degree.

Credit/No Credit

JOUR 195. Internship In Journalism. 1 - 6 Units
Prerequisite(s): JOUR 130A, JOUR 130B and minimum 2.3 overall GPA.
Term Typically Offered: Fall, Spring

Directed work experience through the internship program with public agencies or with journalistic publications, organizations or agencies. Supervision is provided by both the instructional staff and the cooperating agency.

Note: Student must make arrangements with the internship coordinator upon admittance to the course. Limited to Journalism majors and minors and Government-Journalism majors. No more than six units of JOUR 195 may be counted toward the Journalism major.

Credit/No Credit

JOUR 196. Experimental Offerings in Journalism. 3 Units
Term Typically Offered: Fall, Spring

One time and new classes in journalism will be scheduled as needed. 2.0 - 3.0 units

JOUR 196S. Writing for Sports Media. 3 Units
Prerequisite(s): JOUR 30.
Term Typically Offered: Fall, Spring

Fundamentals of gathering, organizing, evaluating and writing sports information in accepted professional style across news media and media relations platforms.

JOUR 197. Journalism Laboratory. 3 Units
Term Typically Offered: Fall, Spring

Working as a staff member of the State Hornet news organization. Roles and responsibilities may include writing, reporting, photography, audio/video production, web layout and design, promotions, marketing, distribution, and/or media business management.

Note: Journalism majors are required to take either JOUR 197A, JOUR 197B, or JOUR 195 Pre-requisite

JOUR 197A. The State Hornet-Introduction. 3 Units
Prerequisite(s): JOUR 30.
Term Typically Offered: Fall, Spring

Working as a staff member of the State Hornet news organization. Roles and responsibilities may include writing, reporting, photography, audio/video production, web layout and design, promotions and marketing.

Note: Journalism majors are required to take either JOUR 197A or JOUR 195.

JOUR 197B. The State Hornet-Continuing. 3 Units
Prerequisite(s): JOUR 197A
Term Typically Offered: Fall, Spring

Working as an editor, senior reporter or manager of the State Hornet. Responsibilities may include editing, staff management and in-depth reporting.

Note: Journalism majors may take this course only once for credit toward the major but up to three times for credit toward graduation.

JOUR 199. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students who wish to attempt independent work. Faculty approval required.

Note: Journalism majors or minors may submit no more than 6 units of JOUR 199 and JOUR 299 toward their degrees.

Credit/No Credit

JOUR 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who are competent to carry on individual work.

Note: Departmental petition required. Journalism majors or minors may submit no more than 6 units of JOUR 199 and 299 toward their degrees.

Credit/No Credit

Kinesiology (KINS)

KINS 4. Beginning Swimming. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Development of physical and mental adjustment to the water. Basic instruction in front crawl, back crawl, elementary backstroke, breast and side strokes and survival is stressed.

Note: May be repeated for credit.

KINS 5. Intermediate Swimming. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Development of physical skills involving strokes, turns, safety and survival techniques.

Note: May be repeated for credit.
Prerequisite(s): 50 yards swimming ability.
Term Typically Offered: Fall, Spring

Instruction in the fundamentals of sailing including safety and a
discussion of terminology and technology of sailing. Additional charge
for off-campus services.
Note: May be repeated for credit.

KINS 10.  Intermediate Sailing.
Term Typically Offered: Fall, Spring

Continuation of KINS 25, using our fleet of C-15s, Laser and Hobie Turbo
14s. Covers rigging, boating safety, sailing, theory and racing tactics.
Note: May be repeated for credit.

KINS 11.  Basic Windsurfing.
Term Typically Offered: Fall, Spring

Introduces the student to the basic fundamentals of windsurfing. Covers
rigging, terminology, balance, stance, sail adjustment, safety, rescue skills,
and tricks.
Note: May be repeated for credit.

Prerequisite(s): 50 yards swimming ability.
Term Typically Offered: Fall, Spring

Basic water skiing, boat and boating safety and in the fundamental skills
in water skiing. Additional charge for off-campus services.
Note: May be repeated for credit.

Term Typically Offered: Fall, Spring

Teaches the novice rower oar control, basic commands, and correct style.
Students will begin rowing on a modern eight-oared racing shell and be
introduced to the one person rowing single.
Note: May be repeated for credit.

KINS 15.  Introduction to Fly Fishing.
Term Typically Offered: Fall, Spring

KINS 15 is a course designed for Sacramento State students of all
experience levels to develop proficiency in the sport of fly fishing while
promoting an appreciation of the sport as a socio-cultural and lifetime
recreational pursuit. Instruction/participation will include, but is not
limited to the following topics: conditioning, conservation techniques,
equipment use/care/selection, fly casting, aquatic entomology, stream
hydrology, interpretation of fly fishing opportunities, fly fishing tactics,
basic knots, and field trips to local streams.
Field trip(s) may be required.

KINS 21.  First Year Seminar: Becoming an Educated Person.  3 Units
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education,
and the functions and resources of the University. Designed to help
students develop and exercise fundamental academic success strategies
and to improve their basic learning skills. Provides students with the
opportunity to interact with fellow classmates and the seminar leader to
build a community of academic and personal support.

KINS 22.  Creative Aerobic Fitness I.  1 Unit
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring

Provides student with a wide range of flexibility, strength, muscular
endurance and creative cardiovascular endurance (aerobic) exercises
that promote physical fitness, positive changes in body composition and
stress reduction when performed regularly.
Note: May be repeated for credit.

Term Typically Offered: Fall, Spring

Using the unique buoyancy and resistance properties of water, the course
includes aquatic exercises for flexibility, strength, and cardiovascular
endurance to promote general fitness, body conditioning, and stress
reduction. As the course will take place in shallow water, swimming
proficiency is not required.
Note: May be repeated for credit.

KINS 26.  Exercise For Fitness.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring

Designed to encourage self-improvement through posture evaluation,
biomechanic analysis of exercises performed and through participation
in varied exercise forms. Students will develop a personalized repertoire
of strength, suppleness and stamina exercises calculated to improve
possible deficiencies in posture or movement to optimize enjoyment of
living.
Note: May be repeated for credit.

General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring

Jogging will expose the student to the fundamentals of jogging/running,
its potential physiological and sociological benefits as a lifetime activity,
fitness testing and individualized conditioning programs.
Note: May be repeated for credit.

KINS 30.  Bicycling.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring

Cycling as a lifetime sport; physiological benefits derived from bicycle
riding; individual functional evaluation and conditioning, cycle touring.
Lecture one hour; activity two hours.
Note: May be repeated for credit.

KINS 33.  Intermediate Weight Training.
General Education Area/Graduation Requirement: Understanding
Personal Development (E)
Term Typically Offered: Fall, Spring

Weight training as a lifetime fitness activity; emphasis on going beyond
the beginning level through development of an individualized program
designed to meet the needs of each individual.
Note: May be repeated for credit.
KINS 36.  Beginning Olympic Weight Lifting.  1 Unit

Prerequisite(s): KINS 33 or equivalent.
Term Typically Offered: Fall, Spring

Introduces the lifter to the sport of weight lifting which consists of the two lifts (two hands snatch and the two hands clean and jerk) used in Olympic competition. It includes the complete breakdown of the two lifts, the assistive lifts necessary to learn the parts of the two lifts, and the proper training sequence. The students will also be introduced to training cycles, proper diet, and the use of assistive equipment.

Note: May be repeated for credit.

KINS 40.  Tai Chi.  1 Unit

General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examines the historical, philosophical, psychological and physiological aspects of Tai Chi. Students will be provided the opportunity to experience a wide range of movement patterns that focus on the integration of mind and body. The form and structure of technique as well as breathing exercises will be included.

Note: May be repeated for credit.

KINS 43.  Beginning Tae Kwon Do.  1 Unit

General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Primary emphasis on throwing, blocking, punching and kicking. The philosophy of Truism and Confucianism is explored.

Note: May be repeated for credit.

KINS 46.  Beginning Judo.  1 Unit

Term Typically Offered: Fall, Spring

Instruction in beginning judo tactics including throws and falls, conditioning, and protective devices for self-defense.

Note: May be repeated for credit.

KINS 50.  Uechi-Ryu Karate.  1 Unit

Term Typically Offered: Fall, Spring

Examines the historical, philosophical, and physical aspects of Uechi-Ryu Karate. Students will be asked to learn the basic techniques and skills used in this Okinawan system as well as to develop and improve in body strength, flexibility and coordination.

Note: May be repeated for credit.

KINS 56.  Beginning Self-Defense for Women.  1 Unit

General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Prepares women to deal psychologically, sociologically and physically with rape and violent assault. The physical tactics taught are based on the use of hands and feet as weapons. They are simple yet an effective use of one’s strength and mental attitude.

Note: May be repeated for credit.

KINS 59.  Self Defense and Conditioning.  1 Unit

Term Typically Offered: Fall, Spring

Multifaceted conditioning course that utilizes self defense techniques to develop self discipline, confidence and respect for physical capabilities and limitations of others.

Note: May be repeated for credit.

KINS 63.  Beginning Ballroom Dance.  1 Unit

Term Typically Offered: Fall, Spring

Development of proficiency in ballroom dance, including history, vocabulary, ballroom dance etiquette and basic steps for foxtrot, waltz, hustle, cha cha, tango, rhumba, salsa, and merengue.

Note: May be taken for credit more than once for credit.

KINS 72.  Beginning Basketball.  1 Unit

Term Typically Offered: Fall, Spring

Development of fundamental skills and tactics of the game, knowledge of basic strategy and rules. Emphasis given to individual and team concepts as they relate to performance and competition.

Note: May be repeated for credit.

KINS 73.  Intermediate Basketball.  1 Unit

Term Typically Offered: Fall, Spring

Advancement of basketball skills and strategy. Emphasis is given to individual and team concepts as they relate to performance competition and officiating basketball.

Note: May be repeated for credit.

KINS 75.  Beginning Volleyball.  1 Unit

Term Typically Offered: Fall, Spring

Development of basic skills, basic offensive and defensive systems of team play, basic strategies and rules. Emphasis on team work and developing supportive attitudes and behavior which encourages continued involvement in volleyball as a physical activity.

Note: May be repeated for credit.

KINS 79.  Beginning Soccer.  1 Unit

Term Typically Offered: Fall, Spring

Development of basic skills of ball handling, passing, dribbling, trapping, tackling, individual and team tactics and strategies; rules interpretation and officiating; promotion of bio-psychosocial well being.

Note: May be repeated for credit.

KINS 83.  Beginning Golf.  1 Unit

General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Development of sufficient basic proficiency in golf to recognize and enjoy it as a lifetime activity; including U.S.G.A. rules, etiquette and the fundamental mechanics involved in the use of irons and woods.

Note: May be repeated for credit.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Description</th>
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<tbody>
<tr>
<td>KINS 86</td>
<td>Beginning Tennis.</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td>Development toward proficiency in tennis, including basic court skills, knowledge, and elementary strategies. Development of enjoyable and appropriate cooperative and competitive modes of behavior; including etiquette and self-awareness. Attention is given to healthful approaches to vigorous lifetime physical activity. Note: May be repeated for credit.</td>
</tr>
<tr>
<td>KINS 87</td>
<td>Intermediate Tennis.</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td>Development and refinement of skills at the intermediate level in all strokes. Development and refinement of playing techniques and strategies. Learning how to enjoy competitive situations and to relate well to others in competition. Adjustment to stressful competitive conditions and improvement of personal responses under stress. Note: May be repeated for credit.</td>
</tr>
<tr>
<td>KINS 88</td>
<td>Beginning Badminton.</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td>Development of fundamentals in badminton including beginning skills, offensive and defensive tactics and strategy; singles, doubles and mixed doubles tournament play. Note: May be repeated for credit.</td>
</tr>
<tr>
<td>KINS 89</td>
<td>Intermediate Badminton.</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td>Development of movement skills, strokes, tactics in singles and doubles at a more advanced level. Emphasis on &quot;cut&quot; or deceptive strokes, rotation or diagonal system of doubles play, increased ability to move on the court, application of laws to move difficult playing situations. Singles, doubles and mixed doubles play in tournaments. Note: May be repeated for credit.</td>
</tr>
<tr>
<td>KINS 90</td>
<td>Alpine Skiing and Snowboarding.</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td>Designed to develop proficiency at all skill levels of alpine skiing, beginner through expert, while promoting appreciation of the sport as socio cultural phenomena and lifetime pursuits. Sessions will take place at a scheduled Sierra ski area as well as on campus. Additional fee. Note: May be repeated for credit.</td>
</tr>
<tr>
<td>KINS 91</td>
<td>Beginning Racquetball.</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td>Fundamental theory and practice of the game of racquetball including service, receiving the service, back wall play, basic shots, variations, court positioning and general tactics; history rules, and safety precautions.</td>
</tr>
<tr>
<td>KINS 92</td>
<td>Intermediate Racquetball.</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td>Development of proficiency at the intermediate level. Includes service and return, backwall play, offensive and defensive shots with emphasis on techniques, strategy and tactics of competition. Note: May be repeated for credit.</td>
</tr>
<tr>
<td>KINS 93</td>
<td>Exercise for Healthy Living.</td>
<td>2 Units</td>
<td>Fall, Spring</td>
<td>Exposes students to a broad range of information related to the understanding and development of personal fitness and health, including healthful approaches to vigorous lifetime physical activity. Note: May be repeated for credit.</td>
</tr>
<tr>
<td>KINS 94</td>
<td>Women and Sport.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>Role of women in sport; an inquiry into traditional and contemporary attitudes and practices regarding the woman's role in the sporting world.</td>
</tr>
<tr>
<td>KINS 95</td>
<td>Martial Arts: Karate.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>Explores the ancient tradition of the Asian martial arts in conjunction with actual participation in a selected martial arts course. Asks the student to critically examine the cultural contributions of specific Asian communities such as Japan, China, and Korea, to the Martial Arts as practiced in the U.S.</td>
</tr>
<tr>
<td>KINS 96</td>
<td>Martial Arts: Tae Kwon Do.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>Explores the ancient tradition of the Asian martial arts in conjunction with actual participation in a selected martial arts course. Asks the student to critically examine the cultural contributions of specific Asian communities such as Japan, China, and Korea, to the Martial Arts as practiced in the U.S.</td>
</tr>
<tr>
<td>KINS 97</td>
<td>Martial Arts: Tai Chi.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>Explores the ancient tradition of the Asian martial arts in conjunction with actual participation in a selected martial arts course. Asks the student to critically examine the cultural contributions of specific Asian communities such as Japan, China, and Korea, to the Martial Arts as practiced in the U.S.</td>
</tr>
<tr>
<td>KINS 98</td>
<td>Kinesiology: Research and Practice.</td>
<td>2 Units</td>
<td>Fall, Spring</td>
<td>Explores the ancient tradition of the Asian martial arts in conjunction with actual participation in a selected martial arts course. Asks the student to critically examine the cultural contributions of specific Asian communities such as Japan, China, and Korea, to the Martial Arts as practiced in the U.S.</td>
</tr>
</tbody>
</table>

**General Education Area/Graduation Requirement:**
- Understanding
- Personal Development (E)
- Corequisite(s): One unit skill or fitness class; may be taken concurrently.
The course is designed to introduce students, persons interested in the personal training field, strength & conditioning and/or prospective coaches at the high school, college, or professional level, public, private settings to what are commonly referred to as training units. These training units are part of the total training program an individual/student/athlete would use to prepare for participation in fitness activity or sport. Included are practical hands-on participatory experiences, program design strategy and practical field tests.

KINS 121.  Peak Performance Through Psychological Skills.  3 Units

Term Typically Offered: Fall only

Examination of, and practical experience in, techniques for maximizing sport and creative performance through the development of mental skills and strategies for stress control, imagery, goal setting, and concentration.

KINS 122B.  Cardiopulmonary Resuscitation.  1 Unit

Term Typically Offered: Fall, Spring

Designed to meet American Red Cross or American Heart Association Certification in CPR.

Note: May be repeated for credit.

Credit/No Credit

KINS 130.  Elementary Physical Education Curriculum and Content.  3 Units

Prerequisite(s): KINS 138; Restricted to junior or senior Kinesiology majors-Physical Education concentration.

Term Typically Offered: Spring only

Overview of the total elementary physical education curriculum. Designed specifically for physical education concentration students. The primary focus will be placed on cooperative activities, movement education, development of locomotor, non-locomotor, manipulative skills, perceptual motor activities, fitness, games, and the correlation of classroom subjects with physical education. Introduces students to developmentally and instructionally appropriate physical education for children. Students will be able to develop a scope and sequence for an elementary physical education curriculum.

KINS 131.  Secondary Physical Education Curriculum.  2 Units

Prerequisite(s): KINS 138; Kinesiology major - Physical Education concentration students only.

Term Typically Offered: Fall only

Designed for senior level students in the Kinesiology major, Physical Education Option, Credential Concentration who wish to deliver an effective, meaningful physical education curriculum to diverse students. Covers curriculum components that include content, content organization, distinctive curriculum models and aspects of curriculum application. Students will learn how to sustain a positive learning experience, conceive and plan meaningful curricula for school based instruction, and to link the school program to opportunities for adolescents outside of school.

KINS 132.  Planning, Designing and Managing a Fitness Center.  3 Units

Term Typically Offered: Fall, Spring

Designed to provide students with the basic guidelines for starting and managing multiple health and fitness centers in the private setting; focus on initial start-up of a health and fitness center and operating procedures with emphasis on equipment selection and arrangement, employee training, program planning for safe and optimally beneficial health and fitness results.

KINS 133.  Integration of Concepts.  3 Units

Prerequisite(s): KINS PETE or PACC majors only; and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.

General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)

Term Typically Offered: Fall, Spring

Critical perspective of how theoretical concepts and integrated knowledge can be applied to various aspects of physical education, sport, and physical activity. Emphasis is on a coherent understanding of the interrelationships that exist in the subdisciplines of kinesiology and other related subject areas. Capstone experience for students in the Physical Education Concentration; must be taken during the final semester of the student’s plan of study.

KINS 134.  History and Philosophy of Physical Education and Sport.  3 Units

Prerequisite(s): KINS 101. KINS 101 may be taken concurrently.

Term Typically Offered: Fall, Spring

Examination of historical events in physical education and sport; examination of how these historical events have influenced the varying philosophies of physical education, sport, and physical activity, past and present; identification of societal forces in cultures which lead to philosophical beliefs and concepts relative to the structure of the disciplines of physical education, sport, and physical activity.

KINS 135.  Assessment Strategies in Physical Education.  3 Units

Term Typically Offered: Fall, Spring

Selection, analysis, construction and administration of norm-referenced and criterion-referenced tests used for formative and summative evaluation in the physical education public school setting. Includes both traditional and alternative assessment strategies. Computers are used for data collection, development of assessment instruments, development of grading programs, and for descriptive statistical analysis.

KINS 136.  Sport And Aging.  3 Units

Term Typically Offered: Fall, Spring

Considers the positive and negative aspects of vigorous exercise and/or sport activity throughout the aging process. Included will be inquiry into the opportunities for activity among adults over the age of thirty, through the active career years, and beyond.
KINS 137. Sociology Of Sport. 3 Units
Prerequisite(s): KINS 101. KINS 101 may be taken concurrently.
Term Typically Offered: Fall, Spring
Analyze sport as a social institution and the interrelations between sport and societal subsystems. Consideration of the attitudes, values, and behaviors associated with sport. Analyzes contemporary problems associated with sport: race relations, the traditional and emerging role of women, leisure behavior, aggression and violence, and political and economic concerns. Analyzes a sociological problem within the context of sport.

KINS 138. Sport Pedagogy. 3 Units
Prerequisite(s): Kinesiology Majors, Minors and Liberal Studies PE Concentration.
Term Typically Offered: Fall, Spring
Sport pedagogy examines learning, teaching and instruction in sport, physical education and related areas of physical activity. Content is focused on differentiated instructional strategies, effective teaching and learning skills, designing instructional plans, managerial behaviors, organizational arrangements, communication skills, and professionalism.

KINS 139. Leadership and Communication. 3 Units
Term Typically Offered: Fall, Spring
Social actions and behavioral patterns as influenced by the communication process; experiential approaches to techniques of interpersonal and small group relationships and leadership; the constantly evolving communication media as instruments of behavioral change.

KINS 141. PRO ACT I - Dual Sports. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Fall only
Design a program to prepare physical education students to analyze and teach developmentally appropriate activities designed for dual participation in the public school setting. Student will be given opportunity to learn and apply the basic techniques of tennis, badminton and pickleball as well as the offensive and defensive net strategies for game play. Emphasis will be given to skill acquisition analysis.

KINS 142. Professional Activities II - Creative Movement and Dance. 3 Units
Prerequisite(s): KINS 138
Term Typically Offered: Spring only
Students will develop an understanding of the content specific to the design and delivery of educational gymnastics and rhythm/dance activities in a K-12 setting. Gymnastics components include: skills, appropriate progressions, spotting techniques, safety and methods of organization. Rhythm and dance will include basic locomotive skill development; basic rhythm activities; and contemporary, line, square, round, contra, folk, country and Western and social/ballroom dance. Historical and multicultural concepts related to dance are also included.

KINS 144. Analysis of Weight Training & Muscular Fitness. 2 Units
Prerequisite(s): Restricted to Kinesiology, Pre-Exercise Science, Coaching Minor or instructor approval
Term Typically Offered: Fall, Spring
The course is designed to prepare students to teach, design, and implement strength/conditioning for various fitness/athletic populations. Included are skill techniques, skill analysis, class/group organization, equipment analysis, muscular fitness related to athletics, fitness, rehabilitation, and other factors related to effective teaching of muscular fitness in high school, college, private, public and corporate settings. Emphasis is on kinesiology/biomechanics principles, human anatomy, and physiological adaptations to the various strength/conditioning for fitness/athletic training covered in the course.

KINS 145. Pro Act III - Team Sports. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Fall only
This is an introductory course designed for students within the Kinesiology Major Physical Education Concentration to analyze the teaching of field sports in secondary school settings. This course provides the student the opportunity to learn basic techniques, strategies, and rules of flag football, volleyball, softball, soccer and basketball. Emphasis will be given to skill performance, skill development, teaching methodology, skill analysis, lead-up activities, and sport participation.

KINS 146. PRO ACT IV Individual Sports. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Spring only
Designed to prepare physical education students to analyze and teach developmentally appropriate activities designed for individual participation in the public school setting. Student will be given the opportunity to learn and apply the basic techniques of golf, track and field and aquatics as well as the strategies necessary for effective participation. Emphasis will be given to skill acquisition and analysis.

KINS 148. ProAct V - Nontraditional Games and Sports. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Fall only
Students will develop an understanding of the content specific to the design and delivery of non-traditional games and sports. Instruction will focus on performance, skill analysis, methods of teaching, strategies for instruction, and evaluation of skills in K-12 settings. The students will be introduced to a variety of nontraditional games and outdoor activities, as well non-traditional team sports including Lacrosse, Ultimate Frisbee, Speedball, Team Handball, and Field Hockey.
KINS 149. Professional Activities of Health and Skill Related Fitness. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Spring only

Students will develop an understanding of the content specific to the design/delivery of a variety of innovative fitness/wellness learning experiences for individuals in K-12 settings. Emphasis will be placed on movement and its relationship to the components of health fitness when pursuing and promoting a physically active lifestyle. Students will develop skills in assessing fitness levels and implementing strategies for supporting positive behaviors and attitudes toward fitness/wellness for individuals from diverse populations.

KINS 150. Exercise and Sport Physiology. 3 Units
Prerequisite(s): BIO 26 or equivalent, with grade of C or better
General Education Area/Graduation Requirement: Laboratory (B3), Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
Sports physiology with special emphasis on studying the various systems in the body that are involved in work, exercise and sport. Training programs to improve these systems and their responses will be discussed in a wide variety of settings including exercise for health, fitness, recreation, and sports competition. Lecture two hours; laboratory 2.5 hours.
Note: Does not satisfy exercise physiology requirement for Exercise Science majors.

KINS 151. Kinesiology. 3 Units
Prerequisite(s): BIO 22 or equivalent.
Term Typically Offered: Fall, Spring

Anatomical concepts and physical laws as applied to human movement emphasizing the effects of individual and environmental variables. Includes analysis of normal and pathological gait. Lecture two hours; laboratory three hours.

KINS 151A. Biomechanics. 3 Units
Prerequisite(s): KINS 151.
Term Typically Offered: Fall, Spring

Introduction to fundamental mechanical concepts as they apply to human movement. A broad range of human movement will be explored including activities from sport, industrial settings, normal and pathological locomotory skills, and movements involved in manipulating the environment in which we live. Laws of physics, mechanical principles and mathematical concepts will be integrated in studying man as a biological entity. Lecture two hours; laboratory three hours.

KINS 151B. Biomechanics II. 3 Units
Prerequisite(s): BIO 10, BIO 22, KINS 151, and KINS 151A
Term Typically Offered: Fall, Spring

The study of biomechanical theory in regards to quantifying and analyzing human movement. Human movement will be examined from an advanced perspective, including tissue mechanics, the pathomechanics of chronic disease, and exercise and sport performance.

KINS 151C. Dance Kinesiology. 3 Units
Prerequisite(s): BIO 22 or equivalent.
Term Typically Offered: Fall, Spring

Human musculoskeletal and neurological systems, energy production, and biomechanical interrelationships of human motion applied to dance. Emphasis on the nervous, muscular and tendinous structures and the mechanical function of levers and force application and injury prevention for the dancer.

KINS 151D. Applied Kinesiology and Biomechanics. 3 Units
Prerequisite(s): BIO 26 with a grade of C or better.
Term Typically Offered: Fall, Spring
Fundamentals of human movement patterns with an emphasis on applied anatomy, movement principles, movement sequences, applied biomechanics, developmental motor stages and basic movement analysis.
Note: Does not satisfy kinesiology or biomechanics requirements for Exercise Science majors.

KINS 152. Physiology Of Exercise. 3 Units
Prerequisite(s): CHEM 1B or CHEM 6B and BIO 131
Term Typically Offered: Fall, Spring

Study of circulatory, respiratory and metabolic response to exercise in humans under various physiological and ambient conditions. Lecture 2 hours; laboratory 2.5 hours.

KINS 152A. Fundamentals of Exercise Programs. 3 Units
Prerequisite(s): KINS 152.
Term Typically Offered: Fall, Spring
Study of current training programs used in different types of activity. Emphasis will be placed on specific training techniques, nutritional needs, methods of testing/evaluating, and special considerations needed for various populations.

KINS 152B. Exercise Physiology of Women. 3 Units
Prerequisite(s): BIO 22 or 26
Term Typically Offered: Fall, Spring

Examines the general physiology of women, how physical activity affects women’s physiological functions, and how physiological functions affect women in sport and exercise performance. A comprehensive review of scientific literature is included.

KINS 152C. Prolonged Exercise. 2 Units
Prerequisite(s): An introductory college biology or zoology course.
Term Typically Offered: Fall, Spring

Extensive review of the energy metabolism, cardiovascular and pulmonary function, endocrine response, nutritional need, training effect, and biochemical response to prolonged exercise of 1-6 hours in duration.

KINS 152D. Blood Lactate and Exercise. 2 Units
Prerequisite(s): KINS 152.
Term Typically Offered: Fall, Spring

Reviews the basic aspects of lactate formation, release, and uptake by skeletal muscle and blood during exercise and training. Presents recent clinical and research findings related to physical performance.
KINS 152S. Energy Production & Sports Performance. 3 Units
Prerequisite(s): KINS 152 and co-enrollment in KINS 153 or Instructor Permission Recommended: FACS 10 & FACS 113
Term Typically Offered: Fall, Spring

Study of ergogenic aids, exercise nutrition and exercise performance enhancing drugs/supplements and their physiological effects on energy production and exercise performance. Lecture: 3 hours

KINS 153. Cardiovascular Testing and Exercise Prescription. 3 Units
Prerequisite(s): KINS 152 or instructor permission.
Term Typically Offered: Fall, Spring

Designed to train exercise leaders, exercise test technologists, and exercise program directors. Focus is upon development of basic skills, both administrative and technical, needed to develop a program of graded exercise testing and exercise prescription for asymptomatic and symptomatic populations. Lecture two hours; laboratory three hours.

KINS 153C. Cardiac Rehabilitation & Exercise Electrocardiography. 3 Units
Prerequisite(s): KINS 153 or Instructor Permission
Term Typically Offered: Fall, Spring

Study of cardiac rehabilitation and exercise electrocardiography, reviews clinical pathophysiology and ECG abnormalities during rest, exercise stress testing and cardiac rehabilitation. Lecture 3 hours.

KINS 154A. Principles and Techniques in a Clinical Setting. 3 Units
Prerequisite(s): Athletic Training or Kinesiology majors only; instructor permission
Term Typically Offered: Fall, Spring

Introduction to professional ethics and attire, the allied health care system, patient transfers, wheelchair and ambulation aids, medical terminology and record keeping. Fundamental principles and concepts underlying the therapeutic application of modalities, including methods of administering heat, cold, electricity, sound, light and water are covered.

KINS 154B. Management and Health Care Administration in Athletic Training. 3 Units
Prerequisite(s): Instructor permission only
Term Typically Offered: Fall, Spring

Organization, management and health care administration of athletic training programs. Includes communication skills, budget, facility design and management, legal aspects, drug testing, education, computer use, insurance and record keeping, personnel development (job search, CEUs, licensure), professional and governing organizations, athletic training reporting systems, emergency action plans, blood borne pathogen procedures, preparticipation exam management, health care issues and fundraising.

KINS 154C. Therapeutic Modalities Laboratory. 1 Unit
Prerequisite(s): BIO 22 or BIO 26, and KINS 154A, and KINS 156, and instructor permission.
Term Typically Offered: Fall, Spring

Techniques and clinical skills in the treatment of injuries using therapeutic modalities. Hands-on experience in the clinical application of contemporary therapeutic modalities (electrotherapeutic modalities, hydrotherapeutic modalities, cryotherapy, radiant energy, paraffin, intermittent compression units, traction units, massage) including patient preparation, set-up, dosage determination and operational procedures. Lab two hours.

KINS 155A. Clinical Evaluation of the Upper Extremity. 2 Units
Prerequisite(s): BIO 22 or BIO 26 or Equivalent and KINS 156.
Term Typically Offered: Fall, Spring

Analyzes and performance of evaluation procedures of the upper extremity, head and spine. Includes the development of skills in a patient interviewing, palpation methods, manual muscle testing, neurological and orthopedic assessments and special tests.

KINS 155B. Clinical Evaluation of the Lower Extremity. 2 Units
Prerequisite(s): BIO 22 or BIO 26, KINS 154A, KINS 156.
Term Typically Offered: Fall, Spring

Analyzes and performance of evaluation procedures of the lower extremity, trunk and low back. Includes the development of skills in patient interviewing, palpation methods, manual muscle testing, neurological and orthopedic assessments and special tests.

KINS 156. Care Of Athletic Injuries. 3 Units
Term Typically Offered: Fall, Spring

Application and methods of caring for and preventing athletic injuries through strapping, padding, conditioning, etc.; practical application of first aid and a basic introduction to treatment and rehabilitation of common athletic injuries.

KINS 156A. Emergency Response. 2 Units
Term Typically Offered: Fall, Spring

Underlying principles and applied techniques of first aid. Meets the requirements for the Emergency Response and CPR for the Professional Rescuer certificates of the American Red Cross. Lecture one hour, laboratory two hours.

KINS 157. Therapeutic Exercise. 3 Units
Prerequisite(s): BIO 22 or BIO 26, KINS 155A or KINS 155B, and KINS 156. KINS 155A or KINS 155B can be taken concurrently with KINS 157
Term Typically Offered: Fall, Spring

Biomechanical principles in the prescription of musculoskeletal rehabilitation exercises. Topics include passive, active and resistive range of motion, manual muscle testing, and exercises for strength, stamina and suppleness for every part of the body.

KINS 157B. Therapeutic Exercise for Chronic Conditions. 3 Units
Prerequisite(s): BIO 22 & BIO 131, or BIO 26, or instructor permission
Term Typically Offered: Fall, Spring

This course is designed to develop knowledge of fundamental disease processes in common chronic conditions and related exercise management. The general concepts of common chronic disease, including etiology, basic pathogenesis, co-morbidities and basic exercise prescription will be investigated. Evidence will be investigated and presented about the role of exercise in the prevention and management of disease, disability and lifestyle.

KINS 158. Motor Learning and Control. 3 Units
Prerequisite(s): BIO 26 or BIO 131 or equivalent
Term Typically Offered: Fall, Spring

Study of the motor and cognitive characteristics of individuals involved in learning and controlling motion skills and the conditions that can influence that learning and control. Lecture two hours; laboratory three hours.
KINS 160. Sport and Exercise Psychology. 3 Units  
Term Typically Offered: Fall, Spring  
Application of research findings as they apply to psychological performance factors in sport, physical education and exercise settings, such as motivation/adherence, stress management, personality and psychological skills training.

KINS 161. Theory of Sport and Fitness Management. 3 Units  
Term Typically Offered: Fall only  
This course is designed to introduce students to the basic theory underlying the multiple components of the sport and fitness industry. Fundamental concepts and theories of sports and fitness management will be applied to various segments of the sports industry: professional sports, collegiate sports, community sports and recreation, intramural sports and corporate fitness.

KINS 165. Theory of Coaching. 3 Units  
Term Typically Offered: Spring only  
Students will be introduced to coaching theory as it relates to developing leadership skills to work with athletes, and teams in the context of organized sport. Topics will include motivation, self-esteem, leadership, communication, competition and cooperation, team management, and optimal performance skills (goal setting, concentration, composure, recovery from mistakes/loss, consistency, and stress management).

KINS 166. Ethics, Inclusion and Equity in Coaching. 3 Units  
Term Typically Offered: Fall only  
This course educates future coaches on the moral and ethical dilemmas typically encountered in competitive athletics. Students will also develop strategies to address various forms of exclusion and inequity in sports and athletics.

KINS 167. The African American Sport Experience. 3 Units  
Term Typically Offered: Fall, Spring  
Examination of the experiences of the African American athlete in sport and society, from the period of enslavement to the contemporary era. Topics include gender experiences, intercollegiate experiences, professional sport, and the Olympic games, as well as the interconnections between African American communities and the role of sport. The experiences of African Americans will be compared to those of other ethnic and cultural groups.

KINS 168. Sport and Film. 3 Units  
Term Typically Offered: Fall, Spring  
This course uses sport films to examine relationships of power in society and the way those relationships are contested and often reinforced. Particular attention will be paid to cultural tensions and negotiations around issues related to race, gender, class, and sexuality. This course utilizes films, with accompanying readings, to understand the institution of sport in American culture, as well to understand how sport is setting where issues of race, class, gender, religion, ability/disability, and sexuality are contested and reinforced.

KINS 169. The Modern Olympic Games. 3 Units  
Term Typically Offered: Fall, Spring  
A study of the historical development of the modern Olympic Games. Areas covered include politics, nationalism, commercialism, marketing and amateurism. The contribution of athletes and administrators who have helped shape the Olympic tradition will be assessed.

KINS 171. Adapted Physical Education: Basic Skill/Fitness Activities and Assessment. 3 Units  
Prerequisite(s): KINS 177.  
Term Typically Offered: Fall, Spring  
Development of competencies for planning, developing, and evaluating effective skill and fitness activities for students with disabilities. Emphasis will be placed on basic skill development, fitness and traditional and alternative assessment strategies and postures assessment and programming for students with disabilities. Information regarding the application of specific standardized assessment instruments for placement decisions will be examined. Students will be required to participate in 15 hours of service learning. Class meets for 2 hours lecture and 2 hours activity.

KINS 172. Movement Education. 3 Units  
Prerequisite(s): Liberal Studies or Child Development majors only, or instructor permission  
Term Typically Offered: Fall, Spring  
Examination of activities and theoretical concepts that relate to the physical, social, emotional and intellectual development of the individual. Content includes: health-related physical fitness, movement concepts, stability, locomotor and manipulative skills, rhythms and dance, gymnastics, games and sport activities.

KINS 176. Perceptual Motor Development. 3 Units  
Term Typically Offered: Fall, Spring  
Study of the genetic, prenatal, perinatal and postnatal factors affecting the sequential perceptual motor development of children. Inquiry is made into reflexes, sensory motor testing and stimulation, perceptual motor testing and remedial activities in motor development.

KINS 177. Introduction to Adapted Physical Education. 3 Units  
Term Typically Offered: Spring only  
Historical and philosophical bases for adapted physical education, including the development and management of programs with emphasis on the psychomotor, affective and cognitive domains. The impact of federal and state legislation, legal liability and special health and safety problems will be studied in relationship to the role of the adapted physical education teacher, the interdisciplinary team, the parent and the pupil.

KINS 179. Adapted Physical Education: Program Planning. 3 Units  
Prerequisite(s): KINS 171 and KINS 177.  
Term Typically Offered: Fall, Spring  
Study of the variables in physical education curriculum and program planning - assessment, goals and objectives, development of program content, and evaluation - as related to individuals with disabilities.

KINS 188. The Effects of Physical Activity on the Brain and Neurological Disorders. 3 Units  
Prerequisite(s): KINS 158 or instructor permission  
Term Typically Offered: Fall, Spring, Summer  
This course will provide an in-depth evaluation of the molecular and systems-level neurophysiological changes as well as behavioral (movement, cognitive, affective/emotional) changes that manifest from physical activity and exercise. The changes resulting from acute vs. chronic exercise as well as different exercise modalities, intensities, frequencies, and durations will be explored. Pathophysiology of common neurological disorders, such as Parkinson’s disease, Stroke, Multiple Sclerosis and dementia, and the role of physical activity/exercise in the development and treatment will be examined.
KINS 194A. Assigned Field Experience in Kinesiology. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned experience in Kinesiology. Students keep records of daily experiences and prepare periodic progress reports. Students receive one unit of credit for three hours per week for one semester of field experience.

Note: Registration requires prior approval of the department coordinator. May be repeated for a total of five units.

Credit/No Credit

KINS 194B. Assigned Internship in Exercise Science. 1 - 3 Units
Prerequisite(s): KINS 151 and/or KINS 152; or instructor permission.
Term Typically Offered: Fall, Spring

Assigned internship other than in the Human Performance Lab. The student will assist in laboratory experiments and other special procedures; will learn the operation of equipment and sequentially will be expected to administer tests and interpret the results. Interns will be expected to attend monthly conferences.

Note: May be repeated for a total of 3 units.

Credit/No Credit

KINS 194C. Assigned Field Experiences in Pre-Physical Therapy. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned experience under the direction of a physical therapist. Students keep records of their experiences. Registration requires prior approval of the pre-physical therapy coordinator.

Note: May be repeated up to a total of 6 units. Open to Physical Education majors in the pre-physical therapy option.

Credit/No Credit

KINS 194D. Assigned Field Experience in Coaching. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned experience in coaching (two hours daily for the full schedule of the sport for two units of credit). Students keep records of daily experiences and prepare periodic progress reports. Succeeding enrollments should be in different sports.

Note: May be repeated for a total of 6 units.

Credit/No Credit

KINS 194E. Assigned Internship in Adapted Physical Education. 1 - 3 Units
Prerequisite(s): Any two of the following: KINS 171, KINS 176, KINS 177, or KINS 179; permission of adapted credential advisor.
Term Typically Offered: Fall, Spring

Assigned experience in the conduct of Adapted Physical Education Programs. Students will keep records of their experiences. Three clock hours per week per unit of credit. Credential candidates may not use in lieu of Phase III requirements.

Note: May be repeated up to six times for credit for a maximum of 6 units.

Credit/No Credit

KINS 194F. Assigned Field Experience in Allied Health. 1 - 3 Units
Term Typically Offered: Fall, Spring

Practical experience in Occupational Therapy, Chiropractic or other allied health professions. Students keep records of their experiences while working under the direct supervision of a licensed clinician. Registration requires prior approval of a Pre-Physical Therapy advisor.

Note: May be repeated up to a total of 6 units.

Credit/No Credit

KINS 194G. Assigned Professional Experience. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned professional experience in organization and evaluation of physical education, athletic training, exercise or pre-therapy. Students work closely with a Sacramento State faculty member and receive one unit of credit for three hours of work per week for one semester.

Note: May be repeated for a total of 3 units toward graduation. These units may not be applied to the major.

Credit/No Credit

KINS 194H. Assigned Field Experience in Athletic Training. 1 - 3 Units
Prerequisite(s): Instructor's permission only
Term Typically Offered: Fall, Spring

Practical experience in athletic training under the direct supervision of an NATA Certified Athletic Trainer in one of the following settings: professional athletics, high school, clinic, industrial or private business.

Note: Registration requires prior approval of the program director. May be repeated up to a total of 3 units.

Credit/No Credit

KINS 195A. Directed Field Experience in Kinesiology. 1 - 2 Units
Term Typically Offered: Fall, Spring

Directed experience in the conduct of physical education. Students keep records of daily experiences and prepare periodic progress reports. Students receive one unit of credit three hours per week for one semester of field experience.

Note: Registration requires prior approval of the department coordinator. May be repeated for a total of 5 units.

Credit/No Credit

KINS 195B. Directed Internship in Exercise Science. 1 - 3 Units
Prerequisite(s): KINS 151 and/or KINS 152; or instructor permission.
Term Typically Offered: Fall, Spring

Directed internship in the Human Performance Laboratory under the supervision of one or more members of the faculty. The student will assist in laboratory experiments and other special procedures; will learn the operation of equipment and sequentially will be expected to administer tests and interpret the results. Interns will be expected to attend monthly conferences.

Note: May be repeated for a total of 3 units.

Credit/No Credit
KINS 195C. Directed Observation in Athletic Training. 1 - 2 Units
Prerequisite(s): Requires prior approval of Program Director
Term Typically Offered: Fall, Spring

Planned student observation of the health care practices of the Athletic Trainer and other sports medicine personnel in a clinical setting. Selected NATA competencies may be completed on site. 60 hours per unit.
Note: May be repeated for up to 4 units total credit.

Credit/No Credit

KINS 195D. Practicum in Athletic Training. 4 Units
Prerequisite(s): Instructor’s permission only
Term Typically Offered: Fall, Spring

Supervised athletic training experience in the athletic training room under the direct supervision of a Certified Athletic Trainer. Included are a series of guest lectures from the medical and paramedical field presenting lectures and demonstrations on topics in sports medicine. 300 hours plus all lectures are 4 units.
Note: Can be taken a minimum of four times and maximum of five times for credit, with the total units not to exceed 20 units.

Credit/No Credit

KINS 196. Experimental Offerings in Kinesiology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Guided study and discussion of problems and topics in kinesiology. Supplemental readings, reports, and term projects are included. Proseminars dealing with specific topics or problems will be scheduled when the need exists.
Note: May be repeated for credit up to three times for credit.

KINS 196G. Sleep, Health and Athletic Performance. 3 Units
Term Typically Offered: Fall, Spring

This course is designed to introduce concepts related to sleep, circadian rhythm, human physiology, and behavior as they impact physical function, health and athletic performance. Concepts related to sleep, sleep deprivation, cognitive function, and learning outcomes in college students will be investigated. Students will have an opportunity to learn about devices used to collect data and analyze individual sleep patterns.

KINS 198A. Seminar in Physical Education - Elementary. 2 Units
Prerequisite(s): KINS 381 and EDTE 474A.
Corequisite(s): KINS 380 and EDTE 474B.
Term Typically Offered: Fall, Spring

Open to physical education single subject credential candidates this course accompanies an eight-week elementary student teaching experience. The focus is twofold: a) engage student teachers in the planning, instruction and assessment of an elementary physical education program aligned with state standards b) support student teachers with the Performance Assessment for California Teachers (PACT). Candidates will be expected to create a class environment that ensures the safe and productive participation in developmentally appropriate elementary physical education.

KINS 198B. Seminar in Physical Education - Secondary. 1 Unit
Prerequisite(s): KINS 198A.
Corequisite(s): EDTE 474B.
Term Typically Offered: Fall, Spring

Open to physical education single subject credential candidates this eight-week course accompanies an eight-week secondary student teaching experience. The focus is twofold: a) engage student teachers in the planning, instruction and assessment of a secondary physical education program aligned with state standards b) support student teachers with the Performance Assessment for California Teachers (PACT). Candidates will be expected to create a class environment that ensures the safe and productive participation in developmentally appropriate secondary physical education.

KINS 199. Directed Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research, project or directed reading. Open only to majors who appear competent to carry on individual work. Approval of the faculty under whom the individual work is to be conducted, and approval of the Department Chair required. Formal written report required.
Note: May be repeated for credit.

Credit/No Credit

KINS 203. Specificity of Conditioning. 3 Units
Term Typically Offered: Fall, Spring

Survey of current research in training regimen of conditioning programs designed to optimize physical conditioning in preparation for specific athletic competitions.

KINS 209. Graduate Studies in Kinesiology. 3 Units
Term Typically Offered: Fall, Spring

An overview of the varied subdisciplines, such as sport pedagogy, motor learning, strength and conditioning, sport psychology, cultural studies of sport, exercise physiology, and biomechanics. Students will read research from each subdiscipline and be able to make interdisciplinary connections.

KINS 210. Research Methods in Kinesiology. 3 Units
Term Typically Offered: Fall, Spring

Various methods and techniques of educational research as they are commonly applied in the field of Kinesiology; study of examples of their use in published research; practice in applying them to problems of interest to the student; analyzing data and writing research reports.

KINS 211. Research Seminar. 1 Unit
Term Typically Offered: Fall, Spring

Students develop and defend research proposals. Students registering for KINS 500 for the first time must register for KINS 211 concurrently.
Note: Student must re-enroll if proposal is not completed and accepted during the first registration

Credit/No Credit
KINS 236. Sport and Society. 3 Units
Term Typically Offered: Fall, Spring

Society and the institution of sport interact in a variety of ways. Students are given the opportunity to investigate and discuss in-depth a wide range of topics linking sport and society. Among these topics are violence and aggression, politics, racism, sexism, counter-cultures, mass media and the future of sport. The application of research to the real world is an integral part of the course.

KINS 245. Administration of Physical Education and Athletics. 3 Units
Term Typically Offered: Fall, Spring

The organization and administration of physical education and athletic programs and the functional considerations involved. Primary areas include: personnel, curriculum, budgeting, contract management, public relations, liability and safety, critical issues, and procedures essential to quality programs.

KINS 250. Advanced Exercise Physiology Laboratory. 3 Units
Prerequisite(s): KINS 152 or instructor permission.
Term Typically Offered: Fall, Spring

Describes, explains, and practices the application of selected measurement techniques in the laboratory as they relate to pertinent research in the areas of exercise physiology. Emphasis will be placed on the use and calibration of equipment as well as adaptation of equipment to different research settings. Lecture two hours; laboratory three hours.

KINS 252. Advanced Exercise Physiology. 3 Units
Prerequisite(s): 1 year of General Chemistry, BIO 131 or equivalent, KINS 152 or equivalent, and KINS 153 or equivalent.
Term Typically Offered: Fall, Spring

Human physiological responses, from the cellular level to organ system level, to both acute and chronic exercise will be studied in detail with an emphasis on integrative physiological responses to exercise. The course will emphasize a complex regulatory systems approach to the changes and adaptations that occur with exercise. Specifically, how the regulatory systems dictate these changes. The course will aid in the understanding of both theoretical and integrative concepts in the area of exercise physiology. The course will provide a solid foundation that is needed to review and understand complex research in exercise physiology.

KINS 254. Advanced Biomechanics. 3 Units
Prerequisite(s): KINS 151, KINS 210; or instructor permission.
Term Typically Offered: Fall, Spring

Study human movement from a mechanical perspective utilizing laws of physics and relevant functional anatomical principles. Human movement will be looked at from a broad perspective, including basic movements to more complex skills. Students will use a variety of techniques to study the biomechanical principles of movement production including laboratory work, library research and examination of the appropriate theoretical constructs. Lecture two hours; laboratory three hours.

KINS 258. Research in Motor Learning. 3 Units
Prerequisite(s): KINS 158, KINS 210; or instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide students with a solid foundation experience in motor learning; focus is on an intensive examination of a selected topic in motor learning; directed individual pilot study and the nature of original laboratory research.

KINS 259. Research in Exercise Physiology. 3 Units
Prerequisite(s): KINS 152, KINS 210, or instructor permission.
Term Typically Offered: Fall, Spring

Provides students with a solid foundation experience in human performance research. Primary focus is on intensive examination of selected advanced topics in exercise physiology.

KINS 260. Psychology Of Sport. 3 Units
Term Typically Offered: Fall, Spring

The in-depth study of parameters of human behavior as specifically related to sport including personality factors, motivational techniques, expectancy effects, group dynamics, leadership issues, aggression, arousal, concentration, and goal setting.

KINS 262. Psychological Aspects of Peak Performance. 3 Units
Term Typically Offered: Fall, Spring

In-depth examination of current research relating to theories of and techniques for performance enhancement in sport and dance through psychological skills strategies.

KINS 270. Instructional Strategies for Physical Activity and Sport. 3 Units
Term Typically Offered: Fall, Spring

Study of theoretical concepts, models and research that relates to organizational and instructional strategies for physical activity and sport. Along with developing problem solving and critical thinking skills, provides the student with the opportunity to partake in self-directed and cooperative learning experiences, and develops communications skills that will enhance staff development and teaching of individuals and groups in a variety of physical activity and sport environments.

KINS 276. Teaching and Coaching Effectiveness. 3 Units
Term Typically Offered: Fall, Spring

Study of the research methodology, systematic observation, and findings that relate to effective teaching and coaching in the school environment. Provides an analytical approach to the investigation of teaching and coaching behaviors by examining models and critical variables involved in describing, analyzing, and interpreting the instructional process.

KINS 294A. Contemporary Topics in Sport Performance. 1 - 3 Units
Prerequisite(s): KINS 210.
Term Typically Offered: Fall, Spring

Advanced research seminars on topics of contemporary interest. Specific topics will vary. Note: May be taken more than once for credit, provided topic is not repeated.

KINS 294B. Contemporary Topics in Exercise Physiology. 1 - 3 Units
Prerequisite(s): KINS 210.
Term Typically Offered: Fall, Spring

Advanced research seminars on topics of contemporary interest. Specific topics will vary. Note: May be taken more than once for credit, provided topic is not repeated.
KINS 294C. Special Topics in Biomechanics. 1 - 3 Units
Prerequisite(s): KINS 254.
Term Typically Offered: Fall, Spring
Advanced research seminars on varied topics of contemporary interest.
Note: May be taken more than once for credit, provided topic is not repeated.

KINS 295. Practicum. 1 - 3 Units
Prerequisite(s): Approval of graduate faculty advisor and graduate coordinator.
Term Typically Offered: Fall, Spring
Graduate experiences in a practical setting.
Note: Open only to graduate students within the Physical Education Department.
Credit/No Credit

KINS 296A. Experimental Elementary Physical Education Workshop. 1 Unit
Term Typically Offered: Fall, Spring
Overview of the total elementary physical education curriculum. Major focus will be on appropriate practices, national content standards, establishing a learning environment, movement concepts, skill themes, and health-related physical fitness. Designed to meet the physical education component for graduate students seeking a multiple subject credential.
Note: Not open to undergraduate students, and it does not substitute for KINS 172.
Credit/No Credit

KINS 299. Directed Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual research, project, or directed reading.
Note: Open only to majors who appear competent to carry on individual work. Admission to this course requires approval of the graduate advisor and the graduate coordinator. Formal written report required. May be repeated for credit.
Credit/No Credit

KINS 380. Methods of Teaching Elementary Physical Education. 1.5 Units
Prerequisite(s): KINS 130, KINS 198A
Corequisite(s): KINS 198B
Term Typically Offered: Fall, Spring
KINS 380 is an 8 week course designed for the future physical educator who wishes to deliver an effective, meaningful elementary physical education curriculum to a diverse population of students. Emphasis is on physical education pedagogy - the skills and techniques that successful teachers use to ensure student learning.

KINS 381. Methods of Teaching Secondary Physical Education. 1.5 Units
Corequisite(s): EDTE 366A
Term Typically Offered: Fall, Spring
An 8 week course, KINS 381 is designed for the future physical educator who wishes to deliver an effective meaningful physical education curriculum to a diverse population of students. Emphasis is on physical education pedagogy - the skills and techniques that successful teachers use to ensure student learning.

KINS 500. Culminating Experience. 1 - 4 Units
Prerequisite(s): Advanced to candidacy. Completion of KINS 211 or concurrent enrollment.
Term Typically Offered: Fall, Spring
Completion of a thesis or project under the direction of a department committee.

Korean (KORN)

KORN 1A. Elementary Korean 1A. 5 Units
Term Typically Offered: Fall only
Develops elementary spoken Korean language, reading and writing in Hangul, and the practical skills required to effectively use the modern language. The relationship between language and culture will also be emphasized. Includes an emphasis on the culture, customs, and traditions of Korea.

KORN 1B. Elementary Korean 1B. 5 Units
Prerequisite(s): KORN 1A
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Spring only
Continuation of KORN 1A. Develops elementary spoken Korean language, reading and writing in Hangul, and the practical skills required to effectively use the modern language. The relationship between language and culture will also be emphasized. Includes an emphasis on the culture, customs, and traditions of Korea.

KORN 2A. Intermediate Korean 2A. 4 Units
Prerequisite(s): KORN 1B
Term Typically Offered: Fall only
Intermediate Korean on the further development of speaking, reading, and grammatical skills through dialogues, discussions, and reading.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

KORN 2B. Intermediate Korean 2B. 4 Units
Prerequisite(s): KORN 2A
Term Typically Offered: Fall, Spring
Continuation of KORN 2A. Further development of speaking, reading, grammar, and composition skills at the intermediate to intermediate-high level.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

KORN 920S. Overseas Study - Lower Division. 0.5 - 99 Units
Term Typically Offered: Fall, Spring

KORN 1920S. Overseas Study - Upper Division. 0.5 - 99 Units
Term Typically Offered: Fall, Spring
Labor Studies (LBRS)

LBRS 100. Labor and the American Social Structure. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Introduction to the study of labor in the U.S., including the nature of work, characteristics of the work force, and an overview of contemporary labor and industrial relations systems within the framework of current U.S. economic and political developments.
Cross Listed: SOC 176; only one may be counted for credit.

LBRS 195. Labor Studies Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised work experience or research in relevant institutions providing an opportunity to apply classroom theories and principles to the "real world." Partial supervision may be supplied by host institution. Requires approval of the Labor Studies Coordinator.
Credit/No Credit

LBRS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading open to students competent to carry on individual work under the direction of a faculty sponsor. Admission requires approval of the faculty sponsor and the Labor Studies Coordinator.
Credit/No Credit

Learning Communities (LCOM)

LCOM 99. Learning Communities. 1 - 15 Units
Term Typically Offered: Fall, Spring

Learning Skills (LS)

LS 101. ELM Self-Paced Course. 3 Units
Prerequisite(s): Score of 44-48 on the ELM.
Term Typically Offered: Fall, Spring
Review of elementary algebra and measurement geometry through a program of independent study.

Liberal Arts (LIBA)

LIBA 200C. Culture and Expression: The Modern Period. 3 Units
Prerequisite(s): LIBA 200A and LIBA 200B; Graduate Standing
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Interdisciplinary seminar on cultural movements, figures, and art forms of the modern period from the Baroque to the present. Focus on the West with some global comparison. Emphasis on theoretical perspectives, methods, and research techniques germane to the liberal arts.
Note: Writing Intensive

LIBA 204. Performance Of Culture. 3 Units
Term Typically Offered: Fall, Spring
Study of the relationship between discourses of culture, politics, aesthetics, and live performance. Critical theories drawn from new methodology and ideologies will be applied to theatrical representations, both classical and contemporary.
Cross Listed: THEA 204; only one may be counted for credit.

LIBA 208. Politics in the Age of Antichrist: Prophecy and Society, 1500-1800. 3 Units
Term Typically Offered: Fall, Spring
Examination of the role of the Judeo-Christian apocalypse in the creation of modern realms of discourse, including political thought, modern science, and secular values generally.

LIBA 210. Gender and Religion in Cross-Cultural Perspective. 3 Units
Term Typically Offered: Fall, Spring
Exploration of the relationships and roles of women and men in the context of religious life. May focus extensively on one or more particular religious traditions cross-culturally, or draw on a wider spectrum of examples. Special attention paid to the complementary nature of men's and women's roles in many religious traditions; and also the way that male perspectives have dominated many areas of formal religious discourse, noting the dissenting voices of women often hidden in more informal types of expression.
Cross Listed: HRS 210; only one may be counted for credit.

LIBA 211. Psychological Issues in Films. 3 Units
Term Typically Offered: Fall, Spring
Examines the presentation of psychological themes in contemporary feature films. It will consider such topics as: Adolescence, Adulthood and Aging, Homosexuality, Drug Addiction, and Physical Disability as they are portrayed in films created for a mass market.
Cross Listed: PSYC 296M; only one may be counted for credit.

LIBA 215. Images of America at Home and Abroad. 3 Units
Term Typically Offered: Fall, Spring
Study and analysis of uniquely American cultural patterns, social institutions, and core values, and how they are perceived both in America and abroad.

LIBA 226. Wisdom and Apocalyptic Literature. 3 Units
Prerequisite(s): LIBA 200A or graduate status in History or instructor permission.
Term Typically Offered: Fall, Spring
Examines two of the more creative literary genres that make up the canonical and deuterocanonical literature of the Jewish and Christian Bibles. Both the historical and theological underpinnings of wisdom and apocalyptic writing will be explored in-depth, with some consideration given to literary analogues in Egyptian, Mesopotamian and Greek cultures. Significant research into wisdom and apocalyptic writings outside of the testament framework required.
Cross Listed: HRS 226; only one may be counted for credit.

LIBA 232. Moral Dilemmas in Modern Medicine. 3 Units
Term Typically Offered: Fall, Spring
Philosophic investigation of moral problems in the medical world, including decision making, rights and values pertaining to human life, and the principles of justice applied to the health care field.
LIBA 243. The Holocaust. 3 Units
Term Typically Offered: Fall, Spring

Analytical study of the Nazi extermination of European Jewry, with particular emphasis given to the roots of exterminationist anti-Semitism, and to the cultural response of Jews and non-Jews to the tragedy of mass-murder.

LIBA 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who have demonstrated competence in undertaking individual work. Enrollment requires approval of the supervising faculty member and the Program Coordinator. No more than 6 units total of LIBA 299 may be counted toward the major.

Credit/No Credit

LIBA 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and permission of the Program Coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis, project or comprehensive examination.

Management (MGMT)

MGMT 10. Introduction to Business Law. 3 Units
Term Typically Offered: Fall, Spring

Study of business law for the future business professional. Introduces students to basic business problems that have legal consequences. Encourages the identification of ethical concerns along with the ability to anticipate potential legal problems with the goal of preventing them. Covers introduction to the legal system; court procedures; contracts and sales; business organizations; real and personal property; labor and employment law; product liability, and the government regulation of business.

MGMT 20. Introduction To Business. 3 Units
Term Typically Offered: Fall, Spring

Provides an overview of the various basic functions of business and how they interface. Topics will include accounting, finance, marketing, human resources management, management information systems, operations management, real estate, and international business.

MGMT 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

MGMT 101. Legal Environment of Business. 3 Units
Prerequisite(s): Must be a Business pre-major, Business major (any concentration), a business minor, a Construction Mgmt major, a Mech Engr Tech major, or a Music (Music Mgmt) major to enroll in this course.
Term Typically Offered: Fall, Spring

Study of business law for the business professional. Aside from investigating substantive law, the course stresses critical thinking and analytical evaluation of contemporary business problems. Encourages the identification of ethical concerns along with the ability to anticipate potential legal problems with the goal of preventing them. Covers introduction to the legal system; court procedures; contracts and sales; business organizations; real and personal property; labor and employment law; product liability, and the government regulation of business. OBE 16 or the equivalent is recommended.

MGMT 102. Business Communications. 3 Units
Prerequisite(s): Completion of Area A in General Education and ENGL 20. Recommend COMS 2 and COMS 4.
Term Typically Offered: Fall, Spring

Provides basic concepts for understanding and practice of communication in the changing world of business for managers and professionals. It examines the use of language and conversations in business settings and their role in coordinating actions, resolving breakdowns in work performance, and providing customer satisfaction. Topics include: Practice in professional styles of business writing and formats, preparation of a formal report, development of competence in business conversation skills (written, electronic, and oral), and other selected topics. International, technical, and linguistic developments are integrated into the various applications of business communication.

LIBA 299. Special Problems in Linguistics. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual problems in any area of linguistics: theoretical, descriptive, applied, historical or comparative.
Credit/No Credit

LING 199. Special Problems in Linguistics. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who have demonstrated competence in undertaking individual work. Enrollment requires approval of the supervising faculty member and the Program Coordinator. No more than 6 units total of LING 199 may be counted toward the major.

Credit/No Credit

LING 199. Special Problems in Linguistics. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual problems in any area of linguistics: theoretical, descriptive, applied, historical or comparative.
Credit/No Credit

LING 299. Special Problems in Linguistics. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who have demonstrated competence in undertaking individual work. Enrollment requires approval of the supervising faculty member and the Program Coordinator. No more than 6 units total of LING 299 may be counted toward the major.

LIB 110. California Studies. 3 Units
Prerequisite(s): GOVT 1 or equivalent.
Term Typically Offered: Fall, Spring

Multidisciplinary, analytical view of California that identifies its ethnic and racial diversity within the political, economic and social development of the state. Examines the environmental and geographic dimensions of the state as well as the demographic and land-use trends that have contributed to California's uniqueness.

LIB 194. Liberal Studies Cooperative Education Experience. 3 Units
Prerequisite(s): Upper division status, and instructor permission.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in schools or related settings. Students gain field experience through supervised employment in school districts and other education-related settings.
Note: May be repeated once for credit.

Credit/No Credit

LIB 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and permission of the Program Coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis, project or comprehensive examination.

LING 199. Special Problems in Linguistics. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual problems in any area of linguistics: theoretical, descriptive, applied, historical or comparative.
Credit/No Credit
Investigation of contemporary business issues and management dilemmas in relation to broad social concerns. Focus is upon public and private decision making in the business environment and how business practices, ethics, and social concerns interrelate. Topics such as the nature of property and profits, efficiency and human values, the balancing of claims of owners, employees, customers, and others in community, corporate responsibility, corporate governance, government regulation and international dimensions of public policy will be covered.

Management Information Systems (MIS)

MIS 1. Word Processing. 1 Unit
Term Typically Offered: Fall, Spring

The course teaches Microsoft Office Word that establishes a student's fundamental computer skills required to perform business related tasks. Topics include developing and refining a document; identifying and correcting errors; formatting, modifying and printing documents; working with pictures, graphics, tables and charts; creating reports, forms, references and mailings; securing content and sharing documents, exploring advanced document features and macros, etc.

MIS 2. Spreadsheets. 1 Unit
Term Typically Offered: Fall, Spring

The course teaches Microsoft Office Excel that establishes a student's fundamental computer skills required to perform business related tasks. Topics include creating and formatting a worksheet; summarizing and analyzing data; using decision making tools; working with logical, statistical, database and financial functions, sharing data with other applications, etc.

MIS 3. Presentation Graphics. 1 Unit
Term Typically Offered: Fall, Spring

The course teaches Microsoft Power Point that establishes a student's fundamental computer skills required to perform business related tasks. Topics include creating, refining and delivering presentations; working with graphics, tables and charts; inserting and enhancing pictures, shapes, sound and video; using templates, slide masters and text boxes, printing, securing and sharing presentations, etc.

MIS 4. Database Applications. 3 Units
Term Typically Offered: Fall, Spring

Use of database management systems (DBMS) to provide students with fundamental information retrieval skills required to perform business related tasks. Topics include basic DBMS operations, working with tables, queries, forms, reports and data analysis.

MIS 5. Introduction to Business Programming. 3 Units
Term Typically Offered: Fall, Spring

Introduction to object oriented programming language. Topics include use of simple data structures and data types, arrays, strings, input-output functions, file processing, and flow control.

MIS 10. Business Applications. 2 Units
Term Typically Offered: Fall, Spring

The course teaches the use of spreadsheets to establish a students' fundamental computer skills required to perform business related tasks. Topics include basic spreadsheet operations, working with charts and graphics, application of formulas and spreadsheet presentation formatting.

MIS 12. Object-Oriented Programming for Business in Java. 3 Units
Term Typically Offered: Fall, Spring

Advanced course in programming principles using an Object Oriented (OO) programming language. Topics will focus on object-oriented (OO) programming including the design and development of OO applications, object classes, inheritance, polymorphism and encapsulation, and graphical user interface (GUI) application development including contrasting event-driven and procedural programming.
MIS 124. Web Development for Business Applications.  3 Units
**Prerequisite(s):** MIS 120.
**Term Typically Offered:** Fall, Spring

Examines the technologies and principles of modern Web development in the creation of Web-based business applications. Emphasis will be given to client-side and server-side technologies and include the topics of basic Web technologies, forms, database access, frameworks, and Web services. Topics are accompanied by design principles, tools, and techniques for Web application development.

MIS 125. Mobile Business Application Development.  3 Units
**Prerequisite(s):** MIS 15
**Term Typically Offered:** Fall, Spring

Provides an introduction to the art and practice of mobile business application development on the Android or iOS platform. Topics will include, but are not limited to, business opportunities, challenges, and cost presented by mobile devices, user-driven design, personas, screen layouts, and use case diagramming. Students will design and build a variety of business applications throughout the course to reinforce learning and to develop real world competency.

MIS 140. Business Data Communication.  3 Units
**Prerequisite(s):** Business majors only
**Term Typically Offered:** Fall, Spring

Examines the basic terminology, hardware/software components, and issues with the establishment, configuration, and management of data communication networks in and across organizations. Topics include wired and wireless local area networks, wide area networks, the internet, and cloud infrastructure.

MIS 150. Database Systems for Business.  3 Units
**Term Typically Offered:** Fall, Spring

Involves the study of generalized database management systems. The study will include logical data base models and physical base models based primarily on the relational and object-relational models. The student will create and manipulate a database utilizing an established database management system. The importance of data administration and other database related topics such as independence, integrity, privacy, query, backup, and recovery will be covered.

MIS 151. End-User Database Application Development for Business.  3 Units
**Prerequisite(s):** MIS 1, MIS 2, MIS 3 or approved equivalent.
**Term Typically Offered:** Fall, Spring

Introduction to end-user database application development in the business environment. Topics will focus on issues in the development of business database applications and include database concepts, organization, storage and retrieval of data, query and analysis with interactive software tools, informative and performance management reporting.

**Note:** Not open to MIS students.

MIS 160. Systems Development Life Cycle.  3 Units
**Prerequisite(s):** MIS 101 and MGMT 102
**Term Typically Offered:** Fall, Spring

Analyze, design, and develop business information systems to solve information needs of businesses and organizations. Topics include various systems analysis and design techniques, tools and methods for building new and/or integrated information systems.

MIS 161. Information Systems Practicum.  3 Units
**Prerequisite(s):** MIS 15, MIS 150, MIS 160, and Business major or minor.
**Term Typically Offered:** Fall, Spring

This course provides a comprehensive integration of MIS coursework through the completion of an information systems project. Topics include information systems development life cycle, project management, application development, database management, and security.

MIS 163. Business Process Engineering and ERP Configuration.  3 Units
**Term Typically Offered:** Fall, Spring

This course focuses on identifying and understanding business requirements, modeling business processes that incorporate the business requirements, and configuring the processes for their implementation in an enterprise resource planning (ERP) system. Students will gain insights to implementation issues and propose alternative solutions to overcome them. A project team environment further develops individual student’s communication and team skills.

MIS 170. Information Systems Security.  3 Units
**Prerequisite(s):** MIS 140
**Term Typically Offered:** Fall, Spring

This course provides a comprehensive study of IT security principles and of information systems. Emphasis will be placed on understanding the framework of IT security in enterprise IT infrastructure. Topics include information security concepts, security risks and vulnerabilities, common attacking techniques, technical and administrative countermeasures for modern enterprise IT infrastructure, such as encryption, authentication, access control, security policies and standards, and IT risk management and audit.

MIS 171. Enterprise Resource Planning Systems.  3 Units
**Prerequisite(s):** MIS 101
**Term Typically Offered:** Fall, Spring

Foundation, business functions, processes, data requirements, development, and management of ERP systems for sales, marketing, accounting, finance, production, supply chain and customer relationship management. Emphasis on re-engineering, integration, standardization, and methodologies of ERP systems.

MIS 173. Microcomputers for Managers.  3 Units
**Term Typically Offered:** Fall, Spring

For students who want to have more than the minimum required personal computer literacy knowledge. The topics covered are: hardware, system software, utility software, spreadsheet modeling, the Internet, and presentation graphics.

**Note:** Not open to MIS students.

MIS 181. Machine Learning Applications in Business.  3 Units
**Prerequisite(s):** DS 101 and MIS 150
**Term Typically Offered:** Fall, Spring

Applies modern machine learning applications in business to data analysis and problem solving. Topics are presented in the context of decision support and may include knowledge representation, neural networks, genetic algorithms, rule induction, fuzzy logic, case-based reasoning and intelligent agents.
MIS 182. Topics In MIS. 3 Units
Prerequisite(s): MIS 150, MIS 160.
Term Typically Offered: Fall, Spring

Current topics will be presented regarding the technical, managerial, and organization considerations affecting computer-based information systems. Topics may include programming languages and techniques, emerging technologies, and MIS development and implementation issues. Readings, topical research, case presentations, and/or projects will be required.

MIS 183. Business Intelligence Applications. 3 Units
Prerequisite(s): Business major and minor
Term Typically Offered: Fall, Spring

Advanced information technologies that extract non-trivial, actionable, and novel knowledge from data to achieve strategic goals of organizations. Emphasis on multidimensional data modeling, online analytic processing, data warehouse, and data mining.

MIS 191. Culminating Experience. 1 Unit
Prerequisite(s): Completion of all coursework in minor.
Term Typically Offered: Fall, Spring

Students demonstrate their knowledge and apply their skill sets from the minor to a working project, and conduct an executive-level, management-oriented presentation.

Note: Students must be in their final semester of the minor’s program.

Credit/No Credit

MIS 194. Cooperative Education Experience in Management Information Systems. 6 - 12 Units
Prerequisite(s): MIS 160, minimum Sacramento State overall GPA of 2.75.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in management information systems for the purpose of exposing the student to comprehensive MIS experience in business, governmental, or service agencies. Open to all upper division students, subject to permission of the MIS Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

MIS 195. Internship in Management Information Systems. 3 - 6 Units
Prerequisite(s): MIS 160, minimum Sacramento State overall GPA of 2.75.
Term Typically Offered: Fall, Spring

Supervised work experience in management information systems for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission of the MIS Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Note: Open to declared business administration majors only.

Credit/No Credit

MIS 199. Special Problems in Management Information Systems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.

Note: Admission requires approval of the instructor and the Associate Dean. Petitions may be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

MIS 210. Information Systems I. 3 Units
Term Typically Offered: Fall, Spring

Introduction to business information systems planning and systems development methodologies. Various methodologies are explored and information systems development project planning is emphasized.

MIS 211. Information Systems II. 3 Units
Term Typically Offered: Fall, Spring

Introduction to basic and object-oriented programming concepts, data structures for information representation, and database management systems.

MIS 232. Management Science. 3 Units
Term Typically Offered: Fall, Spring

Introduction to deterministic and stochastic models in operations research. Topics that may be included are: mathematical programming, inventory theory, analysis of waiting lines, Markov processes, game theory, decision theory and simulation. Various computer programs such as LINDO are used to assist in solution and analysis of management problems.

Note: Not open to students with credit for MIS 132.

MIS 240. Communications Technologies for Business. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring

Focuses on the concepts, technology, applications, and management of data and voice communication with an emphasis on building, supporting, securing, and administering the requirements of network infrastructure and architecture to support businesses.

Note: May be taken twice for credit.

MIS 250. Data Management. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission, and MIS 15 or equivalent.
Term Typically Offered: Fall, Spring

Focuses on database concepts, design and implementation in business. Topics include database design techniques, such as extended entity-relationship and unified modeling language, logical and physical data models for objection-relational database, object oriented database and relational databases, database implementation and administration issues, and the discussion of distributed database, web database, and database security.

Note: May be taken twice for credit.
MIS 251. Strategic Applications of Information Resources. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 210 and 211, or their equivalents. MBA students: MBA 260 and instructor permission.
Term Typically Offered: Fall, Spring
Discussion of the techniques and methodologies to utilize information resource to improve an organization's strategic performance measures. Topics include data warehouse, data mining, online analytical transaction processing, and multidimensional database.

MIS 260. Systems Design. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring
Involves the study of various methods used to analyze and design a computer-based information systems and emphasizes object-oriented systems development (OOSD) techniques.
Note: May be taken twice for credit.

MIS 261. Information Technology Integration for the Enterprise. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 260 or MIS 270; MBA students: MBA 260 or permission of instructor.
Term Typically Offered: Fall, Spring
IT presents many new opportunities at the enterprise level for the design and implementation of integrated organizational structures and business processes that better align the business to meeting its market demands and allow it to pursue new strategic relationships with other organizations. Enterprise IT primarily involves enterprise resource planning (ERP), supply chain management (SCM), knowledge management (KM), and customer relationship management (CRM) to support and coordinate business activities.
Note: May be taken twice for credit.

MIS 262. Business Project Management. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 260; MBA students: MBA 260 or instructor permission.
Term Typically Offered: Fall, Spring
Examines various aspects of IT project management, including project selection involving feasibility, complexity, scalability and impact comparisons, project portfolio to direct the right resources to the right projects to ensure its timely completion, risk assessment, key performance measures, and others.
Note: May be taken twice for credit.

MIS 270. Information Technology Operations. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring
Examines the management of information technology as a vital resource to an organization. It can enable businesses to seize opportunities, gain competitive advantages and establish close relationships with other businesses and their customers. Thus, the business must effectively and efficiently manage and secure its IT resources.
Note: May be taken twice for credit.

MIS 272. Strategic Information Technology Planning. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 270; MBA students: MBA 260 or instructor permission.
Term Typically Offered: Fall, Spring
Strategic IT planning defines the direction a business chooses for its IT resources. It encompasses a vision, mission, strategy, and objectives that closely align to the business’ vision, mission, strategy, and objectives. Planning involves examining how IT will support the achievement of the business’ goals and objectives, and how to open new opportunities to create new business goals.
Note: May be taken twice for credit.

MIS 279. Information Technology Leadership. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 261 or MIS 262, MIS 272; MBA students: MBA 260 and instructor permission.
Term Typically Offered: Fall, Spring
Leadership plays an important role in determining a business’ success with IT. It requires recognizing and leveraging the business’ competencies and core values, and championing initiatives and projects that work in the best interest of the business and create value. Because IT opens opportunities and enables the organization, IT leadership extends to both market (external) and organizational (internal) environments.
Note: May be taken twice for credit.

MIS 280. Decision and Knowledge-Based Systems. 3 Units
Prerequisite(s): MIS 211 or equivalent.
Term Typically Offered: Fall, Spring
Organizational use of information generated from transaction processing systems, management information systems, and decision support systems. The uses of information by managers for planning, control, and decision-making purposes will be discussed. The types of information systems implemented in various kinds of organizations will be covered.

MIS 281. Topics in the Management of Information Systems. 3 Units
Prerequisite(s): Open to non-MSBA/MIS majors with credit in MBA 260 or equivalent; and to those who have completed MSBA/MIS Program Prerequisites.
Term Typically Offered: Fall, Spring
Current topics will be presented regarding the managerial, behavioral, and organizational considerations affecting computer-based information systems. Includes topics such as project selection and justification techniques, system controls, security and privacy issues, strategic planning, and use/data processing department relations. Readings, topical research, and case presentations will be required.

MIS 295. Internship in Management Information Systems. 3 Units
Prerequisite(s): Completion of two of the following: MIS 240, MIS 250, MIS 260, or MIS 270; minimum Sacramento State GPA of 3.0.
Term Typically Offered: Fall, Spring
Supervised work experience in management information systems for the purpose of increasing and enhancing student understanding of the nature and scope of the organization’s operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions to be obtained from Tahoe Hall 1037.
Credit/No Credit
MIS 299. Special Problems in Management Information Systems. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval of the Graduate Programs Office. Petitions to be obtained from Tahoe Hall 1035.

Credit/No Credit
MIS 500A. Thesis. 1 - 3 Units
Prerequisite(s): Advanced to candidacy. Completion of MBA 244.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.

MIS 500B. Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy. Completion of MBA 244.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.

MIS 500C. Comprehensive Examination. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; for comprehensive examination for MBA only (MGMT 500C, 1 unit), completion of program requirements (ACCY 240, MBA 230, MBA 240, MBA 241, MBA 270, MBA 280; for comprehensive examination for MSBA/MIS Degree, student must be in final semester of program.
Term Typically Offered: Fall, Spring

For MSBA/MIS.

Marine Sciences (MSCI)

MSCI 103. Marine Ecology. 4 Units
Prerequisite(s): Ecology, statistics; or concurrent registration in MSCI 104.
Term Typically Offered: Fall, Spring

Field-oriented introduction to the interrelationships between marine and estuarine organisms and their environment with emphasis on quantitative data collection and analysis. Lecture two hours; laboratory six hours.

MSCI 104. Quantitative Marine Science. 4 Units
Prerequisite(s): College mathematics.
Term Typically Offered: Fall, Spring

Mathematical methods for the analysis of biological, chemical and physical data from the marine environment; experimental design, parametric and nonparametric statistics. Lecture three hours; laboratory three hours.
Note: Not for major credit.

MSCI 105. Marine Science Diving. 3 Units
Prerequisite(s): Upper division science major status, thorough physical examination, ability to pass swimming test.
Term Typically Offered: Fall, Spring

Skin SCUBA diving course, pool-training culminates in ten ocean dives. Topics covered included diving physics, physiology, diving environments, night diving and research diving. Successful completion gives NAUI and MLML certification. Lecture one hour; laboratory six hours.
Note: Not for major credit.

MSCI 112. Marine Birds and Mammals. 4 Units
Prerequisite(s): Upper division college vertebrate zoology or instructor permission; MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Systematic, morphology, ecology and biology of marine birds and mammals. Lecture two hours; laboratory six hours.

MSCI 113. Marine Ichthyology. 4 Units
Prerequisite(s): College zoology or equivalent or instructor permission; MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Description of the taxonomy, morphology, and ecology of marine fishes. Both field and laboratory work concentrate on the structure, function and habits of marine fishes and the ecological interactions of these fishes with their biotic and abiotic surroundings. Lecture two hours; laboratory six hours.

MSCI 124. Marine Invertebrate Zoology I. 4 Units
Prerequisite(s): College zoology or instructor permission; MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Field oriented introduction to the structure, systematics, evolution, and life histories of the major and minor marine phyla. Lecture two hours; laboratory and six hours.

MSCI 125. Marine Invertebrate Zoology II. 3 Units
Prerequisite(s): College zoology or instructor permission; MSCI 103 and MSCI 124 recommended.
Term Typically Offered: Fall, Spring

Field oriented introduction to the structure, systematics, evolution and life histories of the minor marine invertebrate phyla. Lecture one hour; laboratory and field six hours.

MSCI 131. Marine Botany. 4 Units
Prerequisite(s): MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Introduction to the plants of the sea, marshes, and dunes, with emphasis on the morphology, taxonomy and natural history of seaweeds and vascular plants. Lecture two hours; laboratory six hours.

MSCI 135. Physiology of Marine Algae. 4 Units
Prerequisite(s): MSCI 103, MSCI 131, and MSCI 144. Lecture two hours; laboratory six hours.
Term Typically Offered: Fall, Spring

Physiological basis for understanding the adaptation of marine algae to their environment. Topics include respiration, enzyme activity, and biochemical composition. Hands-on experience in basic electronic instrumentation, chemical separations, optical measurements, culturing methods, and radioisotope techniques.
MSCI 141. Geological Oceanography. 4 Units
Prerequisite(s): MSCI 142, MSCI 143; may be taken concurrently.
Term Typically Offered: Fall, Spring

Study of the structures, physiography and sediments of the sea bottom and shoreline. Lecture two hours; laboratory and field six hours.

MSCI 142. Physical Oceanography. 4 Units
Prerequisite(s): College algebra, college physics recommended.
Term Typically Offered: Fall, Spring

Introduction to the nature and causes of various oceanic motions including currents, waves, tides, and mixing and the physical properties of seawater. Limited use of calculus. Lecture three hours; laboratory three hours.

MSCI 143. Chemical Oceanography. 4 Units
Prerequisite(s): One year of college chemistry.
Term Typically Offered: Fall, Spring

Introduction to the theoretical and practical aspects of the chemistry of the oceans, including major salts, dissolved gases, nutrient ions, carbonate system, transient tracers, and shipboard sampling techniques. Lecture two hours; laboratory six hours.

MSCI 144. Biological Oceanography. 4 Units
Prerequisite(s): General biology, general chemistry.
Term Typically Offered: Fall, Spring

Ocean as an ecological system. Emphasis will be on the complexity of organismal-environmental interaction of the plankton, the transfer of organic matter between trophic levels and nutrient cycles. Laboratory sessions will include methods in sampling, shipboard techniques, identification of the plankton, and current analytical techniques. Lecture two hours; laboratory six hours.

MSCI 175A. Coastal Geol Processes. 1 Unit
Term Typically Offered: Fall, Spring

MSCI 175B. Intro To Marine Science. 1 Unit
Term Typically Offered: Fall, Spring

MSCI 180. Independent Study. 1 - 4 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Faculty-directed study of selected research problems; open to undergraduate students with adequate preparation. Three hours work per unit.

MSCI 201. Library Research Methods. 1 Unit
Prerequisite(s): Graduate standing in the Marine Science M.S. program and instructor permission.
Term Typically Offered: Fall, Spring

Students will gain advanced understanding of the nature of scientific information. Provides the framework for using and evaluating a variety of information sources in marine and ocean sciences. Strong emphasis will be placed on developing critical skills to interweave knowledge of the history of science into the context of bibliographic tools including the digital realm. Lecture: three hours.

MSCI 202. Oceanographic Instrumentation. 4 Units
Prerequisite(s): MSCI 141, MSCI 142 and instructor permission.
Term Typically Offered: Fall, Spring

Principles of instruments used in oceanographic research, introduction to electronics, and applications of instrument measurements. Emphasis will vary from CTD profilers, current meters, radiometry and chemical measurement. Lecture two hours; laboratory six hours.

MSCI 204. Sampling and Experimental Design. 4 Units
Prerequisite(s): MSCI 103, MSCI 104.
Term Typically Offered: Fall, Spring

Discussion of random sampling, systematic sampling, subsampling, survey techniques, and design of single and multifactorial experiments using randomized and block experimental designs: basic design of experiments and field sampling will be covered. Biases and problems of sampling marine biota will be presented and discussed by critiquing relevant literature. Lecture four hours.

MSCI 208. Molecular Ecology: Concepts and Methods. 4 Units
Prerequisite(s): Basic cellular/molecular biology course; consent of instructor.
Term Typically Offered: Fall, Spring

Use of genetic information affecting interactions of organisms with environment. Lectures on molecular markers used to assess diversity in communities, characterize spatial/temporal variation in species composition, assess genetic variability in populations, discriminate/reveal kinship among individuals, and detect/quantify gene expression important in organismal responses to environmental fluctuation. Basic molecular methods (DNA and RNA isolation/amplification/cloning/sequencing) taught. Students projects as budget permits. Enrollment limited. Lecture 2 hours; laboratory 6 hours.

MSCI 211. Ecology of Marine Birds and Mammals. 4 Units
Prerequisite(s): MSCI 103, MSCI 104, MSCI 112.
Term Typically Offered: Fall, Spring

Community approach to the ecology of marine birds and mammals using experimental and sampling methodology; examine the distribution, abundance, trophic ecology, and behaviors of birds and mammals in Elkhorn Slough and Monterey Bay. Lecture two hours; laboratory six hours.

MSCI 212. Advanced Topics in Marine Vertebrates. 4 Units
Prerequisite(s): MSCI 112 or MSCI 113 and instructor permission.
Term Typically Offered: Fall, Spring

Advanced consideration of the ecology, physiology and phylogeny of fishes, birds, reptiles or mammals, emphasizing current literature and research. Topics and emphasis will vary with term and instructor. Lecture two hours; laboratory six hours.

Note: May be repeated once for credit.

MSCI 212A. Adv Ichthyology. 4 Units
Term Typically Offered: Fall, Spring

MSCI 212B. Ichthyoplankton. 4 Units
Term Typically Offered: Fall, Spring

MSCI 212C. Marine Bird+Mammal Ecology. 4 Units
Term Typically Offered: Fall, Spring

MSCI 212D. Sampling+Experimental Design. 4 Units
Term Typically Offered: Fall, Spring
MSCI 221. Advanced Topics in Marine Invertebrates.  4 Units
Prerequisite(s): MSCI 124 and instructor permission.
Term Typically Offered: Fall, Spring

Advanced considerations of the ecology, physiology and phylogeny of the various invertebrate phyla emphasizing current literature and research. Topics will vary from term to term. Lecture two hours; laboratory six hours.

MCSI 221A. Marine Symbioses.  4 Units
Term Typically Offered: Fall, Spring

MCSI 231. Biology Of Seaweeds.  4 Units
Prerequisite(s): MSCI 131 or instructor permission.
Term Typically Offered: Fall, Spring

Lecture-discussions in algal development, reproduction, and ecology. Extensive reading of original literature. Ecologically oriented individual research projects involving laboratory culture and field experimentation. Lecture two hours; laboratory six hours.

MCSI 233A. Adv Marine Ecology.  4 Units
Term Typically Offered: Fall, Spring

MCSI 233B. Sampling+Expermntl Design.  4 Units
Term Typically Offered: Fall, Spring

MCSI 233C. Coastal Ecology-Gulf of California.  3 Units
Prerequisite(s): MSCI 103, MSCI 104, MLML SCUBA certified, graduate status, instructor permission.
Term Typically Offered: Fall, Spring

Field-oriented examination of the interrelationships between intertidal and shallow subtidal organisms and their environment in the Gulf of California, Mexico. Information from lectures and review of primary literature on the ecology of the region will be used to write a research proposal. 1 hour lecture, 6 hours laboratory.

MCSI 233D. Immune Respn Marine Orgns.  2 Units
Term Typically Offered: Fall, Spring

MCSI 234. Advanced Biological Oceanography.  4 Units
Prerequisite(s): MSCI 144.
Term Typically Offered: Fall, Spring

Experimental techniques in biological oceanography with emphasis on problems important to plankton ecology. Includes lectures, labs, and discussions of current research problems. An individual research project involving analytical tools will be required. Lecture two hours; laboratory six hours.

MCSI 242. Plate Tectonics.  3 Units
Prerequisite(s): MSCI 141 or instructor permission.
Term Typically Offered: Fall, Spring

Historical background, modern theory, and geo-physical evidence of continental drift sea floor spreading and plate tectonics. Examinations of the impact of the recent revolution in historical geology. Lecture three hours.

MSCI 248. Marine Benthic Habitat Techniques.  4 Units
Prerequisite(s): Graduate standing and instructor permission.
Term Typically Offered: Fall, Spring

Collection and interpretation of geophysical data used to characterize marine benthic habitats. Basic geophysical principles will be reviewed. Application of techniques to identify and characterize marine benthic habitats, including echosounders, multibeam bathymetry and backscatter, sidescan sonar, seismic profiling, and GIS. Lecture two hours; laboratory six hours.

MSCI 251. Marine Geochemistry.  4 Units
Prerequisite(s): MSCI 143, quantitative analysis, one year calculus or instructor permission.
Term Typically Offered: Fall, Spring

Geochemical processes in the oceans; thermodynamics of low temperature aqueous reactions, processes occurring at the sea floor and air-sea interface. Lecture two hours; laboratory six hours.

MSCI 261. Ocean Circulation and Mixing.  4 Units
Prerequisite(s): MSCI 142; college physics strongly recommended or instructor permission.
Term Typically Offered: Fall, Spring

Mathematical description of the distribution of properties (salinity, density, etc.) in the oceans relating to physical and biochemical processes. Equations of motion, geotropic method, and theory of distribution of variables. Lecture two hours; laboratory six hours.

MSCI 262. Satellite Oceanography.  4 Units
Prerequisite(s): MSCI 142, MSCI 144, or instructor permission. MSCI 263 strongly recommended.
Term Typically Offered: Fall, Spring

Physical principles of remote sensing with application to the oceans including satellite image processing methods. Labs involve use of PC and Unix workstation. Lecture two hours; laboratory six hours.

MSCI 263. Application of Computers in Oceanography.  4 Units
Prerequisite(s): College math and instructor permission.
Term Typically Offered: Fall, Spring

Lecture, discussion and technical programming with MATLAB for computation and visualization with applications in marine sciences. Use of existing program libraries for data I/O and analysis. Semester project required. Lecture two hours; laboratory six hours.

MSCI 271. Population Biology.  3 Units
Prerequisite(s): MSCI 103, MSCI 104; or instructor permission.
Term Typically Offered: Fall, Spring

Principles of the interaction among marine organisms that result in the alteration of population structures. Techniques for assessment and management of populations. Lecture two hours; laboratory three hours.

MSCI 272. Subtidal Ecology.  4 Units
Prerequisite(s): MLML diver certification and marine ecology (knowledge of marine algae, invertebrates, and statistics recommended).
Term Typically Offered: Fall, Spring

Ecology of nearshore rocky subtidal populations and communities with emphasis on kelp forests. Lectures and discussions of original literature. Field work with SCUBA including group projects on underwater research techniques and community analysis, and individual research on ecological questions chosen by the student. Lecture two hours; laboratory six hours.
MSCI 274A. Electron Micros+Microanal. 3 Units
Term Typically Offered: Fall, Spring

MSCI 274B. Geol Central Ca Margin. 4 Units
Term Typically Offered: Fall, Spring

MSCI 274C. Chem Of Marine Pollution. 4 Units
Term Typically Offered: Fall, Spring

MSCI 274D. Global Change. 3 Units
Term Typically Offered: Fall, Spring

MSCI 280. Scientific Writing. 3 Units
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Techniques and strategies of scientific writing used for proposals, journal submissions, and abstracts for meetings. Students will develop their writing skills by preparing, editing, and rewriting manuscripts. Lecture three hours.

MSCI 281. Coastal Dynamics. 4 Units
Prerequisite(s): Graduate standing and MSCI 141 or MSCI 142.
Term Typically Offered: Fall, Spring

Addresses the oceanographic dynamics of coastal environments, within an emphasis on eastern boundary current systems influenced by coastal upwelling. Focuses on how physical and geological oceanography interact with each other and how both affect coastal ecosystem dynamics.

MSCI 285. Seminar in Marine Biology. 2 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar. Lecture two hours.

Note: May be repeated once for credit.

MSCI 285A. Social Biology. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285B. Repro+Dev Marine Organism. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285C. Recent Adv Deep-Sea Bio. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285D. Controversies Modern Biol. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285E. Paradigms In Commun Ecol. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285F. Appl Molecr Tech Mar Bio. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285G. Aspects Of Deep-Sea Biol. 2 Units
Term Typically Offered: Fall, Spring

MSCI 286. Seminar in Marine Geology. 2 Units
Term Typically Offered: Fall, Spring

Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar.

Note: May be repeated once for credit.

MSCI 287. Seminar In Oceanography. 2 Units
Term Typically Offered: Fall, Spring

Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar.

Note: May be repeated once for credit.

MSCI 298. Research in the Marine Sciences. 1 - 4 Units
Prerequisite(s): Graduate standing and instructor permission.
Term Typically Offered: Fall, Spring

Independent investigations of an advanced character for the graduate student with adequate preparation.

Note: CSUH students must file a petition with their home campus department before admission to this class. CSU Stanislaus students must file Individual Study forms. CSUF students must file Research Approval forms.

MSCI 299. Master's Thesis. 1 - 4 Units
Term Typically Offered: Fall, Spring

Marketing (MKTG)

MKTG 101. Principles Of Marketing. 3 Units
Prerequisite(s): You must be a Business major (any concentration), a business minor or in one of the following majors: Coms/Pub Relations, CM, MET, FACS (Apparel Mktg/Design), FACS (Cons Sci), FASH, GPHD, INTD (Mktg), Rec & Park Mgmt, Photography to enroll in this course.
Term Typically Offered: Fall, Spring

The purpose of this course is to help students develop a working knowledge of marketing. Students will learn about the role marketing plays in an organization, as well as how to plan, implement and evaluate marketing activities. This course builds a foundation for further study in marketing and related fields.

MKTG 115. Marketing Analytics. 3 Units
Prerequisite(s): MKTG 101; and either DS 101 or MKTG 121; or instructor permission
Term Typically Offered: Fall, Spring

The course covers current developments in marketing analytics. Topics include methodologies for market forecasting, estimating market size, and demand; evaluating marketing ROI and customer lifetime value; modeling of segmentation, positioning, competitive analysis, conjoint analysis, distribution channel analytics, and sales analytics. Students will also learn the latest datamining tools to collect, analyze, and visualize data for decision making and communicating to senior executives.

MKTG 121. Marketing Research and Information. 3 Units
Prerequisite(s): MKTG 101.
Corequisite(s): DS 101
Term Typically Offered: Fall, Spring

Examines the acquisition of information for marketing management decision making, including methods of collection and analysis applicable to secondary and primary data, as this process relates to the management information system. Seminar.
MKTG 122. Buyer Behavior. 3 Units  
**Prerequisite(s):** MKTG 101.  
**Term Typically Offered:** Fall, Spring  
Understanding buying as a process in order to develop more effective solutions to marketing problems; an interdisciplinary approach drawing on insights from the behavioral sciences; applications to practical marketing situations. Seminar.

MKTG 123. Public Relations and Ethics in Business. 3 Units  
**Term Typically Offered:** Fall, Spring  
Managerial function of evaluating public attitudes toward business firms and other organizations and institutions, and of adjusting policies and executing programs to earn public acceptance and support. Media and method of communicating with the various publics, and problems in responsible leadership.

MKTG 124. Retail Management. 3 Units  
**Prerequisite(s):** MKTG 101  
**Term Typically Offered:** Fall, Spring  
Development, trends, and institutions of retailing; organization and management of retail establishments; principles and policies of retail store operations including location and layout, planning and control of budgets, personnel, pricing and customer services.

MKTG 125. Advertising. 3 Units  
**Prerequisite(s):** MKTG 101  
**Term Typically Offered:** Fall, Spring  
Examination of advertising as a marketing communications tool in profit and nonprofit organizations. Emphasis will be placed on creative methods, alternative media, measurements of effectiveness, and coordination with other aspects of the marketing program through class discussion and written projects. Seminar.

MKTG 126. Salesmanship. 3 Units  
**Term Typically Offered:** Fall, Spring  
Principles of the sales process including prospecting, structuring a sales presentation, handling objections, closing and customer relationship management. Application of sales techniques in product and service situations, integration of technology as a sales tool. Includes lectures, role playing, and practice in sales presentations.

MKTG 127. Sales Management. 3 Units  
**Prerequisite(s):** MKTG 101  
**Term Typically Offered:** Fall, Spring  
Individual problems of manufacturer or wholesaler in merchandising; intensive development of the "selling" function of marketing; duties of the sales manager.

MKTG 128. Marketing Management. 3 Units  
**Prerequisite(s):** MKTG 101 and senior status.  
**Term Typically Offered:** Fall, Spring  
Application of marketing principles to the solution of a wide variety of problems and cases including target markets, product selection, channels of distribution, promotion and pricing.  
**Note:** It is a capstone course. It is recommended that students take MKTG 121 and MKTG 122 prior to taking MKTG 128. Seminar.

MKTG 129. Marketing Management. 3 Units  
**Prerequisite(s):** MKTG 101 and senior status.  
**Term Typically Offered:** Fall, Spring  
Application of marketing principles to the solution of a wide variety of problems and cases including target markets, product selection, channels of distribution, promotion and pricing.  
**Note:** It is a capstone course. It is recommended that students take MKTG 121 and MKTG 122 prior to taking MKTG 129. Seminar.

MKTG 130. Digital Marketing. 3 Units  
**Prerequisite(s):** MKTG 101 and Business majors or Marketing minors only.  
**Term Typically Offered:** Fall, Spring  
The purpose of this course is to help students learn and apply emerging marketing techniques to become efficient and effective marketers in the 21st century. Topics covered center on effective marketing in an online environment to help students refine their strategic marketing skills, ability to work effectively in diverse teams, and understanding of the local marketing environment.

MKTG 140. Sports Marketing. 3 Units  
**Prerequisite(s):** MKTG 101  
**Term Typically Offered:** Fall, Spring  
The purpose of this course is to help students integrate principles of marketing and sports industry management. It examines the marketing of sports, teams, athletes, sport arenas, as well as the use of sports related marketing tools (such as sponsorships, celebrity athlete endorsements, promotional licensing) for promoting non-sport consumer and industrial products.

MKTG 150. Management. 3 Units  
**Prerequisite(s):** MKTG 101  
**Term Typically Offered:** Fall, Spring  
Managerial function of evaluating public attitudes toward business firms and other organizations and institutions, and of adjusting policies and executing programs to earn public acceptance and support. Media and method of communicating with the various publics, and problems in responsible leadership.

MKTG 160. Principles of Quality Management. 3 Units  
**Term Typically Offered:** Fall, Spring  
Study of the major principles of quality management: customer focus, continuous improvement, employee involvement, and process improvement. Use of case studies and a project to gain knowledge in implementing quality management principles. Seminar.

MKTG 181. Supply Chain Logistics Management. 3 Units  
**Prerequisite(s):** OPM 101  
**Term Typically Offered:** Fall, Spring  
Delivery of enhanced customer and economic value through synchronized management of the flow of physical goods and associated information from sourcing through consumption. Examines the management of those activities that facilitate the movement, control and direction of goods and services to create time, place, form and ownership utilities in the global market. Topics include transportation, warehousing, information systems, sourcing, strategic alliances, modeling, purchasing and international operations.

MKTG 185. Advanced Operations Planning and Control. 3 Units  
**Prerequisite(s):** OPM 101  
**Term Typically Offered:** Fall, Spring  
Focuses on effective operations strategies for companies that operate in a dynamic business environment, with an emphasis on in-depth treatments of the decision situations facing managers in charge of related to the planning and control of the flow of goods and services in supply chain systems.

MKTG 186. Supply Chain Modeling and Analysis. 3 Units  
**Prerequisite(s):** OPM 101  
**Term Typically Offered:** Fall, Spring  
Covers modeling and analytics for designing, managing and improving supply chain systems in order to achieve competitive advantages: cost, quality, service, flexibility, adaptability, and sustainability which support business level strategies of cost leadership and differentiation.
MKTG 190. Multinational Marketing. 3 Units
Prerequisite(s): MKTG 101 or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Environmental factors affecting international trade, such as culture and business customs, political factors and constraints, economic development and legal differences, are integrated with the marketing management functions of market potential, analysis marketing research, international organization, channels and distribution, sales promotion, prices, credit, and financing.

MKTG 195. Internship in Marketing. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.

Note: Open to upper division students, subject to permission of the Marketing Area. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030. Open to declared business administration majors only.

Credit/No Credit

MKTG 199. Special Problems in Marketing. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.

Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

MKTG 199A. Special Problems in Supply Chain Management. 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.

Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

Masters Business Admin (MBA)

MBA 201. Accounting. 2 Units
Term Typically Offered: Fall, Spring

Concepts and models of financial accounting are introduced. Included are the analysis, interpretation and reporting of financial events.

MBA 202. Business Communication. 2 Units
Term Typically Offered: Fall, Spring

Stresses fundamental communication principles and techniques for effective business writing in diverse managerial situations. Participants complete a variety of writing activities, including responding to management communication cases and evaluating written communications using holistic and analytic tools. Within this context, participants are provided an opportunity to achieve an understanding of syntactical and grammatical patterns while improving analytical and logical business writing skills.

Note: This requirement will be waived for students who achieve a score of 4.5 or higher on the Analytical Writing Assessment (AWA) exam. Graduate Writing Intensive (GWI) course.

MBA 203. Legal Environment of Management. 2 Units
Term Typically Offered: Fall, Spring

Intensive study of important aspects of law for managers, including law as an instrument of social and political control. Analyzes selected problems in areas of private law such as contract, tort, business organizations, and agency. In addition, selected issues of administrative law and government regulation of business will be investigated.

MBA 204. Management and Organization Concepts. 2 Units
Term Typically Offered: Fall, Spring

Evolution of management and organization thought; examination of behavioral science variables influencing working relationships among managers, individuals and groups; the study of political and social behavior in organizations; identification, analysis, and synthesis of contemporary concepts and administrative practices; investigation of organization structure, function, and properties leading to an understanding of administration and organization.

MBA 205. Introduction to Managerial Issues in Information Technology. 2 Units
Term Typically Offered: Fall, Spring

Explores from a management perspective, the impact of IT on individuals, organizations, and society. Focuses on how organizations use information systems to solve strategic and operational problems. Topics may include functional information systems, decision support systems, enterprise systems, interorganizational information systems, e-commerce, and business analytics. The relationship between managers and IT personnel will be defined. May include case studies and appropriate software packages.

MBA 206. Managerial Statistics Analysis. 2 Units
Term Typically Offered: Fall, Spring

Computer-based course in data analysis. Business case studies are used to differentiate between common and specific sources of statistical variation and to construct statistical models such as multiple regression, times series, and statistical quality control. Emphasis is placed on intuitive statistical thinking and communication of results.

MBA 207. Finance. 2 Units
Prerequisite(s): ECON 204, MBA 201, MBA 206.
Term Typically Offered: Fall, Spring

Theory and practice in determining the need for, the acquisition of, and the use of funds by organizations. Topics include time value of money, financial analysis, management of working capital, cost of capital, capital budgeting, long-term financing, dividend policy, and internal financing.
MBA 208. Marketing.
Prerequisite(s): ECON 204, MBA 201, MBA 203.
Term Typically Offered: Fall, Spring
Application of decision making in solving marketing problems; such as product, place, promotion and price decisions with reference to consumers and users.

MBA 209. Production and Operations Analysis.
Prerequisite(s): ECON 204, MBA 201, MBA 206.
Term Typically Offered: Fall, Spring
Study of operational systems; fundamental concepts, tools, and methodologies required to analyze and solve problems of the operations manager. Topics include: work design, facilities design, scheduling, quality control, and inventory management.

MBA 210. Managerial Accounting.
Term Typically Offered: Fall, Spring
Management accounting data characteristics and application to internal decisions made by managers. Topics cover management accounting as a tool of business management. Topics generally include product costing, managers’ use of accounting data in specific decision frameworks, performance evaluation, and relevant versus strategic analysis. Class participation is encouraged.

MBA 220. Financial Management.
Term Typically Offered: Fall, Spring
Financing of corporations and management of corporate resources, short-term and long-term, stressing maximizing shareholder wealth. The case method is used extensively. Both oral and written communication skills are stressed.

MBA 221. Financial Markets.
Prerequisite(s): MBA 220 or instructor permission.
Term Typically Offered: Fall, Spring
Behavior of equity, debt, currency, and derivatives markets and the linkages between these markets. Presents the principles of valuations of instruments traded in these markets and the use of these instruments to investors, speculators, hedgers and arbitrageurs.

MBA 222. Security Analysis and Portfolio Management.
Prerequisite(s): MBA 220 or instructor permission.
Term Typically Offered: Fall, Spring
Evaluation of stocks and bonds from the investor’s viewpoint. Interpretation of issuers’ financial statements to estimate potential future earnings and dividends; and evaluation of the securities’ risks and expected returns through analysis of economic, industry and market environment in order to develop conclusions as to the securities’ suitability for inclusion in various types of portfolios. Ethical issues faced by practicing security analysts and portfolio managers.

MBA 223. Asset Valuation.
Prerequisite(s): MBA 220 or instructor permission.
Term Typically Offered: Fall, Spring
Advanced concepts and techniques essential to asset valuation. Key topics include, but not limited to, free cash flow, price multiples, asset-based and contingent claim valuations. Applications of various valuation techniques are emphasized.

MBA 224. Advanced Investment Strategies.
Prerequisite(s): MBA 222 (may be taken concurrently) or permission of instructor.
Term Typically Offered: Fall, Spring
Theoretical and empirical applications of fund formation models. Emphasis is placed on model development strategies based on analyzing secondary sources of financial data. The quality of models is assessed in terms of their logical consistency, robustness of underlying theoretical assumptions, and predicative power. Development, analysis and predicative assessment are conducted within the Excel environment.

Term Typically Offered: Fall, Spring
Financing in health care institutions will be studied; including planning and control features involving budgets, funds flow, funding sources, and factors affecting finance in the health care industry. Analyzes will be made of the relationships and effects on health care finance of such factors as labor, business, government, insurance, research, and demography.

MBA 230. Behavior Science Applications in Management.
Term Typically Offered: Fall, Spring
Behavioral science theories, concepts, and practices in current use in private and public organizations. Critical evaluation of research supporting those practices.

MBA 231. Managing in High Performance Work Organizations.
Term Typically Offered: Fall, Spring
This course focuses on contemporary problems, issues, and objectives relating to the value of collaboration with control in maximizing human capital effectiveness in high performance work organizations. Course work will include research projects, experiential case studies and in-class simulations to help students better understand human capital effectiveness and learn how to serve multiple stakeholders’ interests across different sectors such as private, public, healthcare and information technology.

MBA 232. Negotiation and Relationship Management.
Term Typically Offered: Fall, Spring
Investigation of the formal and informal methods of dispute resolution including negotiating, litigation, administrative hearings, arbitration, mediation, ombudsperson, summary jury trial, private judging, and fact finding. Emphasizes the application of these methods to organization, business, and public sector disputes.

MBA 233. Seminar in Organization Development.
Prerequisite(s): MBA 230 or equivalent.
Term Typically Offered: Fall, Spring
Seminar focusing on individual and organization responses to a changing environment. Includes assumptions and values of organization development; action research; personal, team and intergroup interventions; consultant-client relationships and instrumentation. Cases, laboratory experience, workshop and field analysis techniques are utilized.
MBA 234. Industrial Relations. 3 Units
Term Typically Offered: Fall, Spring

Dual approach emphasizing in-depth analysis of both the philosophical and the practical aspects of industrial relations. The impact of social, economic, and political forces, and their interaction with union and management institutions and public policies. Analyzes relationships between organized employees and employers, the bargaining process, strategies and issues, contract administration, and impasse resolution processes.

MBA 235. Management Of Innovation. 3 Units
Term Typically Offered: Fall, Spring

Synthesis of specialized problems relating to the acquisition, introduction, and utilization of innovations and technological advances by managers in business, industry, government, profit or nonprofit organizations. Current research, thinking methodology dealing with the economics and social impact, sources, barriers, and transfer mechanisms of innovations and technological advances will be investigated.

MBA 240. Marketing Management. 3 Units
Term Typically Offered: Fall, Spring

Marketing policy for channels of distribution, pricing brands, advertising, and sales as interrelated at the executive level. Designed to develop capacity for sound decision making by marketing managers.

MBA 241. Marketing and Its Environments. 3 Units
Term Typically Offered: Fall, Spring

Analyzes the firm's or public agency's external environments, forces of change within them, and their influence on the organization's strategies and actions.

MBA 242. Marketing Problems. 3 Units
Term Typically Offered: Fall, Spring

Consideration of current problems and issues in marketing from the perspective of the individual firm or public agency.

MBA 243. Global Marketing Environment. 3 Units
Term Typically Offered: Fall, Spring

An in-depth coverage of a marketing functions in global environment. Explores traditional and contemporary theories, strategies, practices, and issues of international marketing, develops skills required for entry and maintaining presence on the foreign markets.

MBA 244. Research Methodology. 3 Units
Term Typically Offered: Fall, Spring


MBA 251. Real Estate Finance and Investment. 3 Units
Term Typically Offered: Fall, Spring

Concept and methods used to analyze equity investment in income-producing properties such as apartments, office buildings, and retail. Topics include market analysis, leasing and property income streams, financial structuring, taxation of real estate operations and transactions, the theory and methods used to assess the performance of individual real estate projects, alternative ownership structures, recent innovations in real estate capital markets, material on regulatory restrictions, taxation, and mixed assets portfolio analysis. Use of computer models for investment decision-making.

MBA 252. Mortgage Markets: Institutions, Securities, and Strategies. 3 Units
Term Typically Offered: Fall, Spring

Provides an understanding of mortgage markets and the knowledge required to make financing and lending decisions. Topics include sources of funds, mortgage design and analysis of financing alternatives; mortgage origination, risks in real estate loans, forecasting loan performance, loan modifications and workout strategies, foreclosure, bankruptcy and REOs; secondary mortgage markets and mortgage-backed securities; development and construction financing, risks in construction performance and project management; and management of interest rate risk. Use of computer models for decision-making.

MBA 253. Seminar in Real Estate Development. 3 Units
Prerequisite(s): MBA 251, PPA 250, advanced to candidacy, and instructor permission.
Term Typically Offered: Fall, Spring

Capstone course in urban land development. Case problems and theoretical issues in such areas as debt and equity financing, feasibility analysis, land use regulation, market analysis, risk management, site selection, and taxation of income-producing properties.

MBA 260. Management of Technology Intensive Enterprises. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Use of information technology (IT) as management resource. Focus is on management decision-making related to telecommunications, data-bases, system development, and decision support systems. Use of technology to reengineer the business organization.
MBA 261. Integrated Business Process Management. 3 Units
Term Typically Offered: Fall, Spring

Study the concept of integrated business process management using ERP tools and software to enhance growth and productivity as the diverse functions of an organization are combined into one comprehensive, interrelated, and optimized system. Demonstrate how enterprise level information systems can achieve organizational goals by providing decision makers with accurate, consistent, current, timely, and relevant information and knowledge. Understand the techniques and skills for successful implementation of ERP systems. Explore the latest trends and development in ERP technologies.

MBA 262. Integrated IT in Healthcare. 3 Units
Term Typically Offered: Fall, Spring

This course examines methodologies, tools and applications used for developing and managing information to improve service and make decisions in healthcare. Topics include design, implementation and management of enterprise information systems, health information systems, and electronic medical records, along with other managerial issues such as information privacy and security.

MBA 263. Project and Outsourcing Management. 3 Units
Term Typically Offered: Fall, Spring

Cover the knowledge, skills, and principles required to organize, plan, and control projects and outsourcing activities. Topics include a review of project characteristics and risks, development executive objectives, organization structure and interfaces, information management, and control techniques.

MBA 264. Business Intelligence. 3 Units
Term Typically Offered: Fall, Spring

Cover the processes, methodologies, infrastructure, framework, and current practices used to transform business data into useful information and knowledge for IT-enabled managerial decision support and performance improvement. Data-oriented techniques for corporate performance management and decision making, as well as methodologies for business process improvement, are emphasized. Foundation knowledge in data storage and retrieval, logical data models for database management systems and data warehouses, and security-related issues are discussed.

MBA 270. Global Business Management. 3 Units
Term Typically Offered: Fall, Spring

Provides graduate students an understanding of the management approaches of multinational corporations in dealing with operational differences in various countries. Topics include such areas as: foreign investment decisions, relations with host governments, and organizational planning.

MBA 271. Integrated Entrepreneurship Management. 3 Units
Term Typically Offered: Fall, Spring

Explore multi-dimensions of entrepreneurship including the entrepreneurial initiatives in a corporate context. As a nascent entrepreneur, students are to evaluate new venture opportunities and to understand the entire process of a new venture creation. In corporate settings, students are to understand the innovation and change management of established firms to accomplish their sustainable competitive advantages.

MBA 272. Entrepreneurial Resources Management. 3 Units
Term Typically Offered: Fall, Spring

Study the concepts of identifying and managing talent in entrepreneurial ventures. Demonstrate through theories, empirical evidence, case studies and simulations, the value of sustainable human resource management in new and established enterprises.

MBA 280. Value Chain Integration. 3 Units
Prerequisite(s): classified or conditionally classified graduate student in the College of Bus Admin
Term Typically Offered: Fall, Spring

Study the current state of enterprise value chains from an operation management perspective. Discuss contemporary issues regarding supply and operations management of organizations including profit and nonprofit, service and manufacturing organizations. Integrative topics will be selected among issues affecting an organization's value chain at operational, strategic, and economic levels.

MBA 281. Quality and Process Improvement in Healthcare. 3 Units
Prerequisite(s): classified or conditionally classified graduate student in the College of Bus Admin
Term Typically Offered: Fall, Spring

Discuss contemporary developments and methods in managing quality and process improvement in the healthcare industry. Topics include: Healthcare quality, leadership, teambuilding and project management; quality management processes and tools; quality measurement and management; human participation and organizational design in healthcare quality management; quality and process improvement initiatives; Lean and Six Sigma methodologies for continuous process improvement; process and systems integration; and emerging trends in healthcare quality management.

MBA 282. Global Supply Chain Management. 3 Units
Prerequisite(s): classified or conditionally classified graduate student in the College of Bus Admin
Term Typically Offered: Fall, Spring

A comprehensive study of the basic concepts, methods, processes, and strategies used in the design, development and management of global supply chains. Topics include: defining the supply chain on a global scale, designing global supply chain networks, global procurement, strategic alliances, global logistics, supply chain-oriented product design, quantitative and qualitative tools for supply chain management and current industry initiatives.

MBA 294. Cooperative Education Experience in Management. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 3.0.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in management for the purpose of exposing the students to comprehensive management experience in business, government, or service agencies.

Note: Open to all classified graduate students, subject to permission of the Associate Dean for Graduate and External Programs. Units do not apply toward degree.

Credit/No Credit
MBA 295A. Internship In Finance. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization’s operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.
Credit/No Credit

MBA 295B. Internship In Marketing. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization’s operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.
Credit/No Credit

MBA 295C. Internship In Operations Management. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization’s operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.
Credit/No Credit

MBA 295D. Internship In Organizational Behavior and Management. 3 Units
Prerequisite(s): Classified graduate status; completion of graduate foundation courses plus 6 units of the second year requirement, minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization’s operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.
Credit/No Credit

MBA 295E. Internship in Urban Land Development. 3 Units
Prerequisite(s): Classified graduate status; completion of graduate foundation courses plus 6 units of the second year requirement, minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization’s operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.
Credit/No Credit

MBA 296. Experimental Offerings in MBA. 3 Units
Term Typically Offered: Fall, Spring

When a sufficient number of qualified students apply, a faculty member may conduct a seminar on a designated advanced topic in the MBA program.
Note: May be repeated for credit

MBA 299A. Special Problems in Finance. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions are obtained from Tahoe Hall 1035.
Credit/No Credit

MBA 299B. Special Problems in Marketing. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions are obtained from Tahoe Hall 1035.
Credit/No Credit

MBA 299C. Special Problems in Operations Management. 1 - 3 Units
Prerequisite(s): Classified graduate status
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions are obtained from Tahoe Hall 1035.
Credit/No Credit
Math Learning Skills (MLSK)

MLSK 7A. Making Sense Of Algebra. 4 Units
Prerequisite(s): Score of 34 or below on the ELM Test.
Term Typically Offered: Fall, Spring

Review of fundamental mathematics concepts, measurement geometry, and beginning algebra.

MLSK 7B. Making Sense Of Algebra. 4 Units
Prerequisite(s): LS 7A or MLSK 7A.
Term Typically Offered: Fall, Spring

Review of beginning algebra, algebra topics, and measurement geometry.

MLSK 8A. Individualized Algebra. 2 Units
Prerequisite(s): Instructor permission and pre-algebra competency.
Term Typically Offered: Fall, Spring

First in a three course sequence to prepare students for Math 1. Delivered at a slower pace than other preparatory math courses. Upon completion of the three course sequence, students must enroll in MATH 1.

MLSK 8B. Individualized Algebra. 2 Units
Prerequisite(s): Instructor permission and pre-algebra competency.
Term Typically Offered: Fall, Spring

Second in a three course sequence to prepare students for Math 1. A continuation of topics in MLSK 8A. Delivered at a slower pace than other preparatory math courses. Upon completion of the three course sequence, students must enroll in MATH 1.

MLSK 8C. Individualized Algebra. 2 Units
Prerequisite(s): Instructor permission and pre-algebra competency.
Term Typically Offered: Fall, Spring

Last in a three course sequence designed to prepare students for Math 1. A continuation of topics addressed in MLSK 8B. Delivered at a slower pace than other preparatory math courses. Upon completion of the three course sequence, students must enroll in MATH 1.

MLSK 10A. Elementary Algebra with Geometry. 4 Units
Prerequisite(s): Score of 36-48 on the ELM Test.
Term Typically Offered: Fall, Spring

Review of fundamental mathematical concepts, basic measurement geometry and beginning algebra. Instruction provided through lecture or structured tutorial format.
Note: May utilize computers.

MLSK 10X. Geometry Adjunct to Math 9. 1 Unit
Prerequisite(s): Score of 44-48 on the ELM.
Corequisite(s): MATH 9.
Term Typically Offered: Fall, Spring

Review of measurement geometry and tutorial support for students concurrently enrolled in Math 9.

MLSK 195A. Learning Skills Tutoring Internship. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Practical application of learning through the tutoring of students.
Note: May be repeated for credit.

Credit/No Credit
Mathematics (MATH)

MATH 1. Mathematical Reasoning. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring
Recommended for students whose majors do not include a specific mathematics requirement. Objectives are to show some of the essence and quality of mathematics, and to enhance precision in the evaluation and expression of ideas, thereby developing a student's quantitative reasoning skills. Designed to give students an understanding of some of the vocabulary, methods, and reasoning of mathematics with a focus on ideas.

MATH 10. Essentials of Algebra. 3 Units
Term Typically Offered: Fall, Spring, Summer
Prepares students for courses requiring fundamental algebra skills. Topics include: review of basic algebra; scientific notation, rounding, and percents; factoring; exponents; linear equations and inequalities with applications; quadratic equations with applications; graphing with applications; absolute value equations and inequalities; systems of linear equations and inequalities; and an introduction to exponential and logarithmic expressions.

MATH 12. Algebra for STEM Courses. 4 Units
Term Typically Offered: Fall, Spring
Prepares students for Precalculus and other higher math courses requiring intermediate algebra. Topics include: linear equations and inequalities, absolute value equations and inequalities, systems of linear equations, quadratic equations, polynomial expressions and equations, rational expressions and equations, roots and radicals, and exponential & logarithmic properties and equations.
Note: Students who have received a C- or higher in a college level precalculus or calculus course are not eligible to enroll for credit without the permission of the instructor.

MATH 15H. Honors Mathematical Reasoning. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring
Introduction to the composition and interpretation of mathematical ideas and to the mathematical reasoning necessary to derive results in a variety of mathematical topics. Emphasis on developing concepts and analyzing results.

MATH 17. An Introduction to Exploration, Conjecture, and Proof in Mathematics. 3 Units
Prerequisite(s): Score of 46 or higher on ALEKS PPL exam or MATH 10
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring
Prepares students for MATH 107A and MATH 107B. Students will explore mathematical patterns and relations, formulate conjectures, and prove their conjectures. Topics from number theory, probability and statistics, and geometry.

MATH 24. Modern Business Mathematics. 3 Units
Prerequisite(s): Score of 51 or higher on ALEKS PPL exam or MATH 10
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer
Mathematics for business world, including functions, math of finance, linear programming and rates of change. Applications to economics and business will be emphasized throughout.

MATH 26A. Calculus I for the Social and Life Sciences. 3 Units
Prerequisite(s): Score of 61 or higher on ALEKS PPL exam or MATH 12
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer
Limits, differentiation with applications, integration and applications in the Social Sciences and Life Sciences.

MATH 26B. Calculus II for the Social and Life Sciences. 3 Units
Prerequisite(s): MATH 26A or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring
Continuation of MATH 26A, integration and applications to the Social Sciences and Life Sciences. Multi-variate analysis including partial differentiation and maximization subject to constraints; elementary differential equations; sequences and series. Calculus of the trigonometric functions as time allows.
Note: Not open to students already having credit for MATH 31 or equivalent.

MATH 29. Pre-Calculus Mathematics. 4 Units
Prerequisite(s): Score of 61 or higher on ALEKS PPL exam or MATH 12
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer
Designed to prepare students for calculus. Topics: trigonometry, points and lines in the Cartesian plane; lines and planes in space; transformation of coordinates; the conics; graphs of algebraic relations; the elementary transcendental functions.

MATH 29A. Pre-Calculus Mathematics A. 2 Units
Prerequisite(s): MATH 12
Term Typically Offered: Fall, Spring, Summer
First semester of a two semester course that is designed to prepare students for calculus. Topics: functions and graphs, polynomial functions, rational functions and applications. Lecture two hours.
MATH 29B. Pre-Calculus Mathematics B. 2 Units
Prerequisite(s): MATH 29A.
Corequisite(s): MATH 29M.
Term Typically Offered: Fall, Spring, Summer

Second semester of a two semester course that is designed to prepare students for calculus. Topics: exponential and logarithmic functions, trigonometric functions, analytic geometry, and applications. Lecture two hours.

MATH 29M. Lab for Pre-Calculus Math B. 1 Unit
Corequisite(s): MATH 29B.
Term Typically Offered: Fall, Spring

Workshop designed to deepen the understanding of pre-calculus developed in MATH 29A.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree. Laboratory

MATH 30. Calculus I. 4 Units
Prerequisite(s): Score of 76 or higher on ALEKS PPL exam or MATH 29 or MATH 29B
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Functions and their graphs; limits; the derivative and some of its applications; trigonometric and hyperbolic functions and their inverses; the integral; the fundamental theorem; some applications of the integral. Laboratory

MATH 30L. Laboratory for First Semester Calculus. 1 Unit
Corequisite(s): Enrollment in a designated section of MATH 30.
Term Typically Offered: Fall, Spring

Workshop designed to deepen the understanding of calculus developed in MATH 30.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree. Laboratory

Credit/No Credit

MATH 31. Calculus II. 4 Units
Prerequisite(s): MATH 30 or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

MATH 30 continuation. Methods of integration; improper integrals; analytic geometry; infinite sequences and series.
MATH 96E. Elem Math Content Adv Viewpoin. 1 Unit
Term Typically Offered: Fall, Spring, Summer
MATH96E is a 1-unit, 1-week early start course for baccalaureate credit designed to prepare students for fall GE area B4. Working independently and collaboratively, students will use an inquiry-based approach to learning through research, reflection, and engagement with real world scenarios. Students will develop various academic literacies in order to understand the conventions of quantitative reasoning required for success in a college setting.
Cross listed: ALS 96
Credit/No Credit

MATH 96F. Mathematical Programming. 3 Units
Prerequisite(s): MATH 30 or appropriate high school based AP credit
Term Typically Offered: Fall, Spring
Computational strategies in mathematical problem solving; implementation of mathematical algorithms; programming concepts including variables, control flow, data structures, and functions; data visualization, typesetting, and report generation.

MATH 99. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Permits a student to pursue study and research in an area not otherwise available through the regular curriculum.
Note: Open only to students who appear competent to carry on individual work; admission requires the approval of the faculty member under whom individual work is to be conducted, and approval of the advisor and the Department Chair.
Credit/No Credit

MATH 100. Applied Linear Algebra. 3 Units
Prerequisite(s): MATH 26B or MATH 31.
Term Typically Offered: Fall, Spring
Linear algebra and its elementary applications. Topics: Matrix algebra; simultaneous linear equations; linear dependence and vector spaces; rank and inverses; determinants; numerical solution of simultaneous linear equations; linear transformations; eigenvalues and eigenvectors; unitary and similarity transformations; quadratic forms.
Note: May not be taken for credit toward a mathematics major.

MATH 101. Combinatorics. 3 Units
Prerequisite(s): MATH 31
Term Typically Offered: Spring only
Introduction to the art of counting. The focus will be on actually listing the objects being counted in small cases and using the knowledge gained in working with small cases to build toward general principles. Sum and product principles, models of counting, permutations and combinations, equivalence relations and partitions, inclusion-exclusion principle, recurrence relations, and generating functions.

MATH 102. Number Theory. 3 Units
Prerequisite(s): MATH 31.
Term Typically Offered: Fall, Spring
Theory of divisibility; some number theoretical functions; congruencies (linear and quadratic); some Diophantine equations. Simple continued fractions.
MATH 108. Introduction to Formal Mathematics.
Prerequisite(s): MATH 31, MATH 35.
Term Typically Offered: Fall, Spring
Logic of mathematical proof, set theory, relations, functions. Examples and applications from set cardinality, algebra, and analysis.

MATH 110A. Modern Algebra.
Prerequisite(s): MATH 108.
Term Typically Offered: Fall, Spring
First half of a one-year introductory course in algebraic concepts. Topics include: groups, subgroups, properties of groups, permutation groups, factor groups, homomorphism theorems.

MATH 110B. Modern Algebra.
Prerequisite(s): MATH 110A.
Term Typically Offered: Fall, Spring
Continuation of MATH 110A.
Note: Topics include

MATH 117. Linear Algebra.
Prerequisite(s): MATH 110A.
Term Typically Offered: Fall, Spring
Abstract linear spaces and linear transformations; invariant subspaces; canonical forms.

MATH 121. College Geometry.
Prerequisite(s): MATH 31; MATH 32 or MATH 35.
Term Typically Offered: Fall, Spring
Study of the axioms and theorems of Euclidean geometry. A comparison of several geometry axiom systems and their theorems, including those of some non-Euclidean and finite geometries.

MATH 130A. Functions of a Real Variable.
Prerequisite(s): MATH 32 and MATH 108.
Term Typically Offered: Fall, Spring
First half of a one-year upper division course in functions of a real variable. The first semester will consist of a rigorous development of the theory of real-valued sequences and continuity and differentiation for functions of one real variable.

MATH 130B. Functions of a Real Variable.
Prerequisite(s): MATH 130A.
Term Typically Offered: Fall, Spring
Continuation of MATH 130A. This semester will be devoted to a rigorous development of the theory of Riemann integration, infinite series, and sequences and series of functions.

MATH 134. Functions of a Complex Variable and Applications.
Prerequisite(s): MATH 32.
Term Typically Offered: Spring only
Complex plane; analytic functions; integration and Cauchy’s Theorem; sequences and series; residue calculus; applications to potential theory; Fourier and Laplace transforms.

MATH 150. Introduction to Numerical Analysis.
Prerequisite(s): MATH 31
Term Typically Offered: Spring only
Numerical solutions of algebraic and transcendental equations; interpolation, inverse interpolation, finite differences, cubic splines, and applications; numerical differentiation and integration; direct and iterative numerical solutions of linear systems; discrete and continuous least squares approximation.

MATH 161. Mathematical Logic.
Prerequisite(s): MATH 108.
Term Typically Offered: Fall, Spring
Advanced study of logic with special application to mathematics.

MATH 162. Set Theory.
Prerequisite(s): MATH 108.
Term Typically Offered: Fall only
Axiomatic study of set theory. Topics usually considered include: relations and functions; set theoretical equivalence; finite and infinite sets; cardinal arithmetic; ordinal numbers and transfinite induction; variants of the Axiom of Choice.

MATH 170. Linear Programming.
Prerequisite(s): MATH 31; MATH 35 or MATH 100.
Term Typically Offered: Fall only
Theory of linear programming, duality, simplex method, integer programming, applications.

MATH 190. History Of Mathematics.
Term Typically Offered: Fall, Spring
Study of the development of mathematical ideas and techniques and their impact on the general course of the history of western civilization.

MATH 193. Capstone Course for the Teaching Credential Candidate.
Term Typically Offered: Fall, Spring
Successful completion of at least five of the following:
MATH 102, MATH 110A, MATH 110B, MATH 121, MATH 130A, MATH 130B or MATH 190; MATH 110A or MATH 130A may be taken concurrently.

MATH 196K. Introduction to Differential Geometry.
Prerequisite(s): MATH 31, and MATH 35 or instructor’s permission
Term Typically Offered: Spring only
Reviews the major themes presented in the upper division program in Mathematics, and relates the themes to junior high school and high school curriculum. Required for all subject matter students.
Note: Not accepted for credit for non-Teaching Credential students.

MATH 199. Introduction to Numerical Analysis.
Term Typically Offered: Spring only
Numerical solutions of algebraic and transcendental equations; interpolation, inverse interpolation, finite differences, cubic splines, and applications; numerical differentiation and integration; direct and iterative numerical solutions of linear systems; discrete and continuous least squares approximation.

MATH 31. Functions of One and Several Variables.
Term Typically Offered: Fall, Spring
Continuation of MATH 130A. This semester will be devoted to a rigorous development of the theory of Riemann integration, infinite series, and sequences and series of functions.

MATH 32. Functions of One and Several Variables.
Term Typically Offered: Fall, Spring
Continuation of MATH 130A. This semester will be devoted to a rigorous development of the theory of Riemann integration, infinite series, and sequences and series of functions.

MATH 35. Functions of One and Several Variables.
Term Typically Offered: Spring only
Continuation of MATH 130A. This semester will be devoted to a rigorous development of the theory of Riemann integration, infinite series, and sequences and series of functions.

MATH 102. Introduction to Linear Algebra.
Term Typically Offered: Fall
Systems of linear equations; matrix algebra; vector spaces; linear transformations; standard canonical forms.

MATH 107. Introduction to Numerical Analysis.
Term Typically Offered: Fall, Spring
Numerical solutions of algebraic and transcendental equations; interpolation, inverse interpolation, finite differences, cubic splines, and applications; numerical differentiation and integration; direct and iterative numerical solutions of linear systems; discrete and continuous least squares approximation.

MATH 108. Introduction to Formal Mathematics.
Term Typically Offered: Fall, Spring
Logic of mathematical proof, set theory, relations, functions. Examples and applications from set cardinality, algebra, and analysis.

MATH 110A. Modern Algebra.
Term Typically Offered: Fall, Spring
First half of a one-year introductory course in algebraic concepts. Topics include: groups, subgroups, properties of groups, permutation groups, factor groups, homomorphism theorems.

MATH 110B. Modern Algebra.
Term Typically Offered: Fall, Spring
Continuation of MATH 110A.
Note: Topics include

MATH 117. Linear Algebra.
Term Typically Offered: Fall, Spring
Abstract linear spaces and linear transformations; invariant subspaces; canonical forms.

MATH 121. College Geometry.
Term Typically Offered: Fall, Spring
Study of the axioms and theorems of Euclidean geometry. A comparison of several geometry axiom systems and their theorems, including those of some non-Euclidean and finite geometries.

MATH 130A. Functions of a Real Variable.
Term Typically Offered: Fall, Spring
First half of a one-year upper division course in functions of a real variable. The first semester will consist of a rigorous development of the theory of real-valued sequences and continuity and differentiation for functions of one real variable.

MATH 130B. Functions of a Real Variable.
Term Typically Offered: Fall, Spring
Continuation of MATH 130A. This semester will be devoted to a rigorous development of the theory of Riemann integration, infinite series, and sequences and series of functions.

MATH 134. Functions of a Complex Variable and Applications.
Term Typically Offered: Spring only
Complex plane; analytic functions; integration and Cauchy’s Theorem; sequences and series; residue calculus; applications to potential theory; Fourier and Laplace transforms.
MATH 198. Seminar for Mathematics Tutors. 2 Units
Prerequisite(s): Students must be working as tutors in a campus-based program.
Term Typically Offered: Fall, Spring
Supports Sacramento State students who are working in tutorial and related roles in mathematics programs on campus. Focus on questioning as a fundamental strategy for teaching mathematics, on classroom observation, and on communication among mathematics instructors in support of effective teaching and learning.
Note: May be repeated up to two times for credit.

Credit/No Credit

MATH 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Open only to those students who appear competent to carry on individual work. Admission to this course requires the approval of the faculty member under whom the individual work is to be conducted, in addition to the approval of the advisor and the Department Chair.
Credit/No Credit

MATH 202. Theory of Numbers. 3 Units
Prerequisite(s): Math 110A or equivalent; Math 110B is recommended.
Term Typically Offered: Fall, Spring
Divisibility properties of the integers, primes, modular arithmetic, Chinese Remainder Theorem, quadratic reciprocity and quadratic forms, arithmetic functions, the Möbius inversion formula, and Diophantine equations. Possible additional topics include elliptic curves, algebraic numbers, primes in arithmetic progressions, the geometry of numbers, p-adic numbers, primality tests, modular forms, and encryption.

MATH 210A. Algebraic Structures. 3 Units
Prerequisite(s): MATH 110B.
Term Typically Offered: Fall only
Graduate level course in algebraic structures. Topics include group theory including permutation groups, subgroups, homomorphisms, quotient groups, group actions, Sylow theorems and the theory of finite Abelian groups, as well as an introduction to ring theory including ideals, quotient rings, and integral domains.

MATH 210B. Algebraic Structures. 3 Units
Prerequisite(s): MATH 210A.
Term Typically Offered: Fall, Spring
Fields; vector spaces; Galois theory.

MATH 220A. Topology. 3 Units
Prerequisite(s): MATH 130B.
Term Typically Offered: Fall, Spring
Point set topology, continuity, compactness, connectedness.

MATH 220B. Topics In Topology. 3 Units
Prerequisite(s): MATH 220A.
Term Typically Offered: Fall, Spring
Continuation of MATH 220A with topics selected from: General topology/Foundations, Geometric Topology, Continuum Theory, Homology Theory, Homotopy Theory, Topological Dynamics.
Note: May be taken twice with approval of the graduate coordinator.

MATH 230A. Real Analysis. 3 Units
Prerequisite(s): MATH 130B.
Term Typically Offered: Fall, Spring
Metric topology; the theory of the derivative; measure theory.

MATH 230B. Real Analysis. 3 Units
Prerequisite(s): MATH 230A.
Term Typically Offered: Fall, Spring
Continuation of MATH 230A, with topics selected from: Theory of the integral, including Riemann, Riemann-Stieltjes, and Lebesgue integrals.
Note: May be taken twice with approval of the graduate coordinator.

MATH 234A. Complex Analysis. 3 Units
Prerequisite(s): MATH 130B; MATH 105B or MATH 134 is recommended.
Term Typically Offered: Fall, Spring
Complex numbers, complex functions, analytic functions, complex integration, harmonic functions.

MATH 234B. Topics in Complex Analysis. 3 Units
Prerequisite(s): MATH 234A.
Term Typically Offered: Fall, Spring
Continuation of MATH 234A with topics selected from: Partial Fractions and Infinite Products, Entire Functions, Riemann Zeta Function, Normal Families, Riemann Mapping Theorem, Conformal Mapping of Polygons, Dirichlet Problem, Analytic Continuation.
Note: May be taken twice with approval of the graduate coordinator.

MATH 241A. Methods of Applied Mathematics. 3 Units
Prerequisite(s): MATH 241A.
Term Typically Offered: Fall, Spring
Note: May be repeated for credit provided topic is not repeated.

MATH 241B. Topics in Applied Mathematics. 3 Units
Prerequisite(s): MATH 241A.
Term Typically Offered: Fall, Spring
Continuation of MATH 241A with topics: Calculus of Variations, Functional Analysis, Dynamical Systems, Integral Equations, Sobolev Spaces, Fourier Analysis, Potential Theory, and Optimal Control Theory.
Note: May be taken twice with approval of the graduate coordinator.

MATH 248. Lie Theory. 3 Units
Prerequisite(s): Math 110A and Math 130A, or consent of instructor.
Term Typically Offered: Fall, Spring
Introduction to Lie algebras, Lie groups, and their connection. Emphasis is placed on examples given by matrices. Representation theory of Lie algebras or groups. Additional topics may include: applications to physics, the Baker-Campbell-Hausdorff Formula, one-parameter subgroups, root systems, the structure and classification of simple Lie algebras, and the topology of Lie groups.
MATH 296B. Theory of Numbers. 3 Units
Prerequisite(s): Math 110A or equivalent.
Term Typically Offered: Fall, Spring

This class will cover divisibility properties of the integers, primes and primality tests, modular arithmetic, Chinese Remainder Theorem, quadratic reciprocity and quadratic forms, arithmetic functions, the Mobius inversion formula, and Diophantine equations. Possible additional topics include elliptic curves, algebraic numbers, primes in arithmetic progressions, the geometry of numbers and encryptions.

MATH 296C. Lie Theory. 3 Units
Prerequisite(s): Math 110A and Math 130A, or consent of instructor.
Term Typically Offered: Fall, Spring

The course gives a basic introduction to Lie algebras and their connections to Lie groups. Emphasis will be on examples given by matrices. Beyond an introduction to Lie algebras and groups, possible specific topics are: the classification and construction of simple Lie algebras; ADE classification; universal enveloping algebras; semi-simple Lie algebras and their representation theory; Lie group representations; subgroups and subalgebras; one-parameter subgroups; and the exponential map.

MATH 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem may do so if the proposed subject is acceptable to the supervising instructor and to the student's advisor. Credit/No Credit

MATH 316. The Psychology of Mathematics Instruction. 2 Units
Prerequisite(s): Admission to the Mathematics Blended Program.
Term Typically Offered: Fall only

A survey course for students in the Blended Program in Mathematics that relates broad areas of educational psychology and theories of learning to instruction in the secondary mathematics classroom. The focus is on practical applications of theories through the design of lesson and unit plans. Students will design learning activities for diverse classes of learners, including English Language Learners, and build and refine assessment plans that include formative assessments. Lecture two hours.

MATH 371A. Schools and Community A. 2 Units
Corequisite(s): Enrollment in EDTE 470A.
Term Typically Offered: Fall, Spring

The first of a two-part sequence supporting student teachers in the Mathematics Blended Program. Focus is on strategies for secondary mathematics instruction, the process of reflection on teaching, communication among mathematics teachers in support of effective teaching and learning, strategies for engagement, questioning, creating a safe classroom environment, classroom management, assessment, and familiarity with school and community resources. Emphasis on issues related to English Language Learners, special needs students, and intervention strategies. Seminar two hours. Credit/No Credit

MATH 371B. Schools and Community B. 2 Units
Corequisite(s): Enrollment in EDTE 470B.
Term Typically Offered: Fall, Spring

The second of a two-part sequence supporting student teachers in the Mathematics Blended Program. Focus is on strategies for secondary mathematics instruction, the process of reflection on teaching, communication among mathematics teachers in support of effective teaching and learning, strategies for engagement, questioning, creating a safe classroom environment, classroom management, assessment, and familiarity with school and community resources. Emphasis on issues related to English Language Learners, special needs students, and intervention strategies. Seminar two hours. Credit/No Credit

MATH 500. Culminating Experience. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Directed reading programs for master's candidates preparing for written comprehensive examinations.

Mechanical Engineering (ME)

ME 37. Manufacturing Processes. 3 Units
Term Typically Offered: Fall, Spring, Summer

Principles of manufacturing processes in the areas of metal removal, forming, joining and casting and fundamentals of numerical control. Study includes applications of equipment, e.g., lathe, milling machine, drill press, saw, grinder, welder, molding equipment and core makers. Emphasis on safety during hands-on operations. Two hours lecture, one three-hour lab.

ME 76. Programming and Problem Solving in Engineering. 2 Units
Prerequisite(s): Math 30; Phys 11A; Phys 11A may be taken concurrently
Term Typically Offered: Fall, Spring, Summer

Introduction to the use of computers for engineering, science and mathematical computations. Provides basic computer operation skills, and includes the use of modern interactive symbolic and numerical computation packages as well as an introduction to programming methods for solving engineering problems. Both analytical and graphical tools will be used for applications. Sample applications will be drawn from a variety of science and engineering areas.

ME 105. Introduction to Technical Problem Solving. 3 Units
Prerequisite(s): ENGR 17 and ENGR 30.
Term Typically Offered: Fall, Spring, Summer

Introduction to the use of computers for engineering, science and mathematical computations. Introduction to linear algebra and matrix applications. Introduction to concepts of programming and visualization using MATLAB and PBasic. Practical applications involving design using a microcontroller. Applications will be drawn from a variety of science and engineering areas. Lecture two hours, Laboratory three hours.
ME 106. Applications of Programming in Mechanical Engineering. 1 Unit
**Prerequisite(s):** ME 76 or equivalent
**Term Typically Offered:** Fall, Spring, Summer
Application of programming in the solution of practical engineering problems. Topics include problem formulation, algorithm development, advanced graphical user-interface development, and generating simulations using software packages such as Simulink. A project that involves programming a robot to perform designated tasks is included.

ME 108. Professional Topics for Mechanical Engineers. 2 Units
**Prerequisite(s):** MATH 31. MATH 31 may be taken concurrently.
**Term Typically Offered:** Fall, Spring
Introduction to statistical methods applied to analysis of engineering systems. Topics include data collection, distribution characteristics, probability, uses of regression analysis, and decision-making under uncertainty. Introduction to economic analysis applied to engineering designs. Topics include marginal or incremental economic analysis using multiple standard methods while addressing organizational constraints and market factors. Investigations into the roles engineers play in society in working toward sustainability, and ethical decision making in a technological world.

ME 114. Vibrations. 3 Units
**Prerequisite(s):** ENGR 110, ME 105.
**Term Typically Offered:** Fall, Spring

ME 115. Dynamics of Machinery and Multi-Body Systems. 3 Units
**Prerequisite(s):** ENGR 110, ME 105.
**Term Typically Offered:** Fall, Spring
Kinematic and kinetic analysis of mechanisms. Rigid and flexible multi-body assembly models in two and three dimensions. Use of solid modeling, dynamic analysis and finite element methods. Study of loads on linkages, cams, gears as integral functioning components of machines, ground and space vehicles. Study of forces and moments in machinery under impulsive and impact forces, balancing, and elements of vibration.

ME 116. Machinery Design I. 2 Units
**Prerequisite(s):** ENGR 112, and ME 37. ENGR 112 and ME 37 may be taken concurrently.
**Term Typically Offered:** Fall, Spring, Summer
Introduction to basic design methodology for mechanical systems and devices. Detail design of machine components; application of analytical methods in the design of complex machines. Failure mode analysis, theories of failure, yield, fracture, deflection, and fatigue analysis of machine elements. Design of common machine elements such as bearings and shafts.

ME 117. Machinery Design II. 2 Units
**Prerequisite(s):** ME 116.
**Term Typically Offered:** Fall, Spring
Introduction to design of machine components; application of analytical methods in the design of complex machines. Design of common machine elements such as threaded fasteners, springs, flexible drive components, gears, and friction devices. Introduction to stress and deflection analysis using finite element software.

ME 120. Fluid Mechanics for Mechanical Engineers. 3 Units
**Prerequisite(s):** ENGR110 or concurrent enrollment.
**Term Typically Offered:** Fall, Spring, Summer
Fundamentals of fluid mechanics, including fluid statics; mass, momentum and energy conservation laws and analysis; inviscid and viscous (laminar, turbulent) flow; pumps, turbines, internal flow in pipes; external flow on moving or submerged objects; dimensional analysis, modeling, applications. Lecture. 3 units.

ME 121. Solar Thermal and Energy Storage Systems. 2 Units
**Prerequisite(s):** ENGR 124.
**Term Typically Offered:** Fall, Spring
Study of solar thermal heat and power and energy storage including the characterization, theory, operation, analysis and modeling of solar thermal and energy storage systems.

ME 122. Geothermal and Bioenergy Systems. 2 Units
**Prerequisite(s):** ENGR 124.
**Term Typically Offered:** Fall, Spring
Study of geothermal and bioenergy systems including the characterization, theory, operation, analysis and modeling.

ME 123. Wind, Hydro and Ocean Energy. 3 Units
**Prerequisite(s):** ENGR 124 and ME120.
**Term Typically Offered:** Fall, Spring
Exploring sustainable energy and power generation, through study of wind, hydro and ocean energy systems, including the characterization, theory, operation, analysis, modeling, planning impacts and design process.

ME 126. Heat Transfer. 3 Units
**Prerequisite(s):** ENGR 124 and ME 120.
**Term Typically Offered:** Fall, Spring, Summer
Basic principles of heat transfer, including processes of conduction, convection, radiation, evaporation and condensation. Lecture three hours.

ME 126W. Heat Transfer Workshop. 1 Unit
**Corequisite(s):** ME 126.
**Term Typically Offered:** Fall, Spring, Summer
Problem solving and discussion of heat transfer to enhance students’ understanding of subject matter.
**Note:** May be repeated for credit.
**Credit/No Credit**
ME 128. Thermal-Fluid Systems. 3 Units
Prerequisite(s): ME 126 (may be taken concurrently).
Term Typically Offered: Fall, Spring, Summer
Fundamentals of the Otto, Diesel, Brayton and Rankine power cycles, vapor-compression refrigeration, psychrometric processes and chemical reactions. Theory and application of temperature, pressure, flow, and velocity instruments, introduction to experiment design, errors, uncertainty and data acquisition, data analysis and presentation.

ME 129. Power Plant Engineering. 3 Units
Prerequisite(s): Thermodynamics (ENGR 124) and Thermal-Fluid Systems (ME 128). ME 128 may be taken concurrently.
Term Typically Offered: Fall, Spring
In this course, the students will be able to understand the fundamentals of power industry, including electricity production, transmission, and distribution. They will also apply their engineering knowledge gained in the fundamental courses to understand and conceptually design various modern power plant technologies for electric power generation and cogeneration, including steam power plants, gas turbines, combined cycles, and nuclear power plants and their components.

ME 132. Solar Energy, Geothermal Energy, and Bioenergy Systems. 3 Units
Prerequisite(s): Thermodynamics (ENGR 124)
Term Typically Offered: Fall, Spring
In this course, the students will study solar energy, geothermal energy, and bioenergy systems. They will apply their engineering knowledge gained in the fundamental courses to design these systems. They will also learn about theoretical foundations, characterization, operation, and environmental impacts of these energy systems.

ME 136. Numerical Control Programming. 3 Units
Prerequisite(s): ME 37 and ME 105; ME 105 may be taken concurrently.
Term Typically Offered: Fall, Spring
Computer programming languages for automated manufacturing, including CNC manual programming, cutter compensation, geometric definition of products, cutting tool definition, continuous path part programming, computation, decision, looping, computer graphics programming and intelligent machines.

ME 137. Product Design for Manufacturing and Automation. 3 Units
Prerequisite(s): ME 117.
Term Typically Offered: Fall, Spring
Various manufacturing and automation aspects of product design, including design for machining, design for automation, applications of CAD/CAM software in product design and automation, and rapid prototyping. Virtual design and manufacturing and agile manufacturing will also be discussed.

ME 138. Concurrent Product and Process Design. 3 Units
Prerequisite(s): ME 37 and ME 116.
Term Typically Offered: Fall, Spring
Manufacturing considerations in product design including: design for manufacturing (DFM), design for assembly (DF A), design to cost (DTC), design to life cycle cost (DTLCC), design for quality and reliability (DFQR); introduction to concurrent engineering. Two hours lecture, three-hour lab.

ME 140. Introduction to Motors and Actuators. 2 Units
Prerequisite(s): ME 172 or EEE 184.
Term Typically Offered: Fall, Spring
Power conversion hardware used in electromechanical systems. Operation and sizing of electric motors, both DC and AC systems, motor controllers, and power electronics; sensors; design in fluid power systems, both pneumatic and hydraulic; and power transmission systems such as ball screws and belt drivers.

ME 141. Introduction to Tolerance Analysis. 2 Units
Prerequisite(s): ME 116
Term Typically Offered: Fall, Spring
Introduction to techniques used in manufacturing tolerance analysis. Assembly tolerance analysis using standard industry practices; application of geometric dimensioning techniques to tolerance analysis; drawing practices for indicating dimensional tolerances; statistical techniques; tolerance allocation. Introduction to computer aided tolerance analysis.

ME 143. Vehicle Dynamics and Design. 3 Units
Prerequisite(s): ENGR 110 and ME 117.
Term Typically Offered: Fall, Spring

ME 145. Vehicle Crash Reconstruction. 3 Units
Prerequisite(s): ENGR 110
Term Typically Offered: Fall, Spring
Study of forensic engineering using state of the art technology. Application of principles of dynamics for forensic investigation and reconstruction of vehicle collisions. Cases involving, cars, motorcycles, bicycles and commercial vehicles. Study of devices that contribute to passenger safety and stability. Analysis of seat belts, airbags, and electrohydraulic stabilizers. Data analysis of Event Data Recorders (EDRs) and verification with real cases using state of the art reconstruction techniques, photogrammetry and the use of computer simulations in two and three dimensions.

ME 151. Fundamentals of Combustion. 3 Units
Term Typically Offered: Fall, Spring
Principles of combustion and pyrolysis of gaseous, liquid, and solid materials. Applications of principles, including analysis and design of stationary and mobile powerplants, waste management, and fire safety.

ME 152. Turbomachinery Design. 3 Units
Prerequisite(s): ME 120 and ENGR 124
Term Typically Offered: Fall, Spring
Theoretical analysis of energy transfer between fluid and rotor; principles of axial, mixed, and radial flow compressors and turbines. Applications and computer-aided design of various types of turbomachines.
ME 153. Thermodynamics of Combustion Engines. 3 Units
Prerequisite(s): ENGR 124, ENGR 132, ME 105.
Term Typically Offered: Fall, Spring

Application of thermodynamic and fluid mechanical analysis to various kinds of engines, including those based on Otto, Diesel, Brayton, Rankine, and Stirling cycles. Development of computer models and comparison of cycles in terms of applications to land, marine, and aerospace propulsion.

ME 154. Alternative Energy Systems. 3 Units
Prerequisite(s): ENGR 124.
Term Typically Offered: Fall, Spring

Study of alternative energy technologies, such as renewable fuels, wind, solar, oceanic and geothermal power. Concentration on fundamental thermodynamic principles, modern design features and non-technical aspects of each technology.

ME 155. Gas Dynamics. 3 Units
Prerequisite(s): ME 105.
Term Typically Offered: Fall, Spring


ME 156. Heating and Air Conditioning Systems. 3 Units
Prerequisite(s): ENGR 124, ENGR 132.
Term Typically Offered: Fall, Spring

Theory and design of heating, ventilating and air conditioning for industrial and comfort applications. Topics include refrigeration cycles, heating and cooling load calculations, psychrometrics, solar heating and cooling component, and system design.

ME 157. Solar Energy Engineering. 3 Units
Prerequisite(s): ME 126; may be taken concurrently.
Term Typically Offered: Fall, Spring

In-depth study of the basics of solar engineering, including the nature and availability of solar radiation; operation, theory and performance of solar collectors; energy storage and model of solar systems.

ME 159. High Efficiency HVAC. 3 Units
Prerequisite(s): ME 156 or instructor permission.
Term Typically Offered: Fall, Spring

Starts with a review of the theory and design of HVAC systems. Recent improvements and new developments in cooling and heating equipment are studied in detail. Computer models such as the Trane TRACE Program are used to size an HVAC system with an emphasis on high efficiency. Computer based controls and energy management systems are discussed and demonstrated. Field trips to energy efficient installations are included. Field trip(s) may be required.

ME 164. Introduction to Test Automation. 3 Units
Prerequisite(s): ME 105, ME 117.
Term Typically Offered: Fall, Spring

Basic concepts to automate testing procedures. Introduction to sensors, signal conditioning, sampling theory, design of experiments, data acquisition software, and data reduction techniques. Hands-on experience with PC based data acquisition software and hardware which will be used to create testing programs. Lecture two hours; laboratory three hours.

ME 165. Introduction To Robotics. 3 Units
Prerequisite(s): ME 105, ME 116.
Term Typically Offered: Fall, Spring

Fundamentals of design and application of industrial robotics. Manipulator kinematics, trajectory planning and controller design, design of end effectors and actuators, sensors, programming languages, and machine vision. Applications in manufacturing, approach to implementing robotics, economic analysis for robotics. Lecture two hours; laboratory three hours.

ME 171. Modeling and Simulation of Mechatronics and Control Systems. 3 Units
Prerequisite(s): ENGR 110, ME 105.
Term Typically Offered: Fall, Spring, Summer

Computer modeling and mathematical representation of mechanical, electrical, hydraulic, thermal, and electronic systems or combinations of these. Development of system design criteria and solutions using computer simulation. Use of state of the art automated modeling and simulation methods to build models of multi-energy mechatronics and control systems. Vibration concepts, applied, natural frequencies, eigenvectors, and solution of differential equations using computer simulation. Introduction to state variable feedback control systems. A design project is required.

ME 172. Control System Design. 3 Units
Prerequisite(s): ME 171.
Term Typically Offered: Fall, Spring, Summer

Use of mathematical models for the generation of equations of motion for mechanical and electrical systems. Evaluation of single and multiple degrees of freedom systems in the time and frequency domain. Topics include feedback control systems, Laplace transform, state space representation, transfer functions, error analysis, stability of control systems and system response. Automatic control system design using root locus and frequency response methods. Design of compensating controls using state of the art software and automation tools. Introduction to digital control.

ME 173. Applications of Finite Element Analysis. 3 Units
Prerequisite(s): ENGR 112, ME 105.
Term Typically Offered: Fall, Spring


ME 176. Product Design & CAD. 3 Units
Prerequisite(s): ENGR 6, ME 105 and ME 116.
Term Typically Offered: Fall, Spring

Digital product development using an integrated CAD system. Philosophy of parametric design. Component and assembly design, basic drawing creation, and simulations. Team product design investigating the effects of variations in geometry, dimensions, and material selection. Lecture two hours; laboratory three hours.
ME 177. Product Design and 3D Parametric Solid Modeling. 3 Units
Prerequisite(s): ENGR 6, ME 105 and ME 116.
Term Typically Offered: Fall, Spring

Introduction to Solid Modeling and its application to mechanical product design. Digital product development using 3D Parametric Solid Modeling tools. Also covers component and assembly design, basic drawing creation. Reverse design project engineering investigating the effects of variations in geometry, dimensions, and material selection. Lecture two hours; laboratory three hours.

ME 180. Mechanical Properties of Materials. 3 Units
Prerequisite(s): ENGR 112
Term Typically Offered: Fall, Spring, Summer

Principles of mechanical properties of metals, including strength under combined loads, fatigue, and fracture mechanics. Laboratory includes study of strengthening mechanisms, and principles of experimental stress analysis. Lecture two hours; Laboratory three hours.

ME 180W. Mechanical Properties of Materials Workshop. 1 Unit
Corequisite(s): ME 180.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of mechanical properties of materials to enhance students' understanding of subject matter. Credit/No Credit

ME 182. Introduction to Composite Materials. 3 Units
Prerequisite(s): ME 180.
Term Typically Offered: Fall, Spring

Properties, mechanics, and applications of anisotropic fiber-reinforced materials with an emphasis on the considerations and methods used in the design of composite structures.

ME 183. Materials Selection in Engineering Design. 3 Units
Prerequisite(s): ENGR 45 and ME 116. ME 116 may be taken concurrently.
Term Typically Offered: Fall, Spring

Quantitative treatment of materials selection for engineering applications. Discussion of the relationship between design parameters and materials properties. Emphasis on the influence of processing and fabrication on the properties of metals, ceramics, polymers and composites as related to the overall design process. Sustainability, Eco-Design, and manufacturability considerations.

ME 184. Corrosion and Wear. 3 Units
Prerequisite(s): ME 180.
Term Typically Offered: Fall, Spring

Introduction to the phenomena of corrosion and wear, including the electro-mechanical bases of corrosion, examples of corrosion of iron, steel and stainless steels, and prevention of corrosion. Fundamentals of wear are covered including effects of loads, material properties, and lubrication on wear rates.

ME 186. Fracture Mechanics in Engineering Design. 3 Units
Prerequisite(s): ME 180.
Term Typically Offered: Fall, Spring

Fracture mechanics approach to mechanical design; role of microstructure in fracture toughness and embrittlement; environmentally-induced cracking under monotonic and fatigue loads; laboratory techniques; service failures in various industries and failure mechanisms.

ME 190. Project Engineering I. 3 Units
Prerequisite(s): ME 117
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer

Beginning of a two semester project; design of a product, device, or apparatus that will be fabricated in ME 191. Students work in small groups, interacting with product users, vendors, technicians, and faculty advisors. Lecture two hours; laboratory three hours.

ME 191. Project Engineering II. 2 Units
Prerequisite(s): ME 190.
Term Typically Offered: Fall, Spring, Summer

Continuation of the project begun in ME 190. Part II consists of fabrication and assembly of equipment, testing and evaluation, and reporting. Seminar one hour; laboratory three hours.

ME 194. Career Development in Mechanical Engineering. 1 Unit
Prerequisite(s): Senior status.
Term Typically Offered: Fall, Spring

Designed for Mechanical Engineering students making career decisions. Instruction will include effective career planning strategies and techniques including skill assessment, employment search strategy, goal setting, time management, interview techniques and resume writing. Lecture one hour.

Note: Units earned can not be used to satisfy major requirements.

ME 195. Professional Practice. 1 - 6 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report. Credit/No Credit

ME 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report. Credit/No Credit

ME 196A. Motion and Dynamic Analysis using Solid Modeling. 3 Units
Prerequisite(s): ENGR 6 and ME 117.
Term Typically Offered: Fall, Spring

Practical approach to study of motion and dynamic analysis of machine components and assemblies in two or three dimensions. Uses solid modeling software to analyze the forces, moments and dynamic loads for parts and entire assemblies in motion. Topics include stress and strain during motion, kinematics, kinetics, drop tests in two and three dimensions, frequency analysis, buckling, dynamic fatigue and finite element analysis, time history of motion, harmonics, and vibrations.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Term Typically Offered</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 196B</td>
<td>Engineering Systems Approach to Product Design</td>
<td>2</td>
<td>Prerequisite(s): ME 116</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>ME 196C</td>
<td>Computer Programming for Mechanical Engineering Applications</td>
<td>2</td>
<td>Prerequisite(s): ME 105</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>ME 196D</td>
<td>Air Resources Engineering</td>
<td>2</td>
<td>Prerequisite(s): ENGR 124 and ENGR 132. ENGR 132 may be taken concurrently.</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>ME 196E</td>
<td>Vehicle Safety and Crash Reconstruction</td>
<td>3</td>
<td>Prerequisite(s): ENGR 132</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>ME 196F</td>
<td>Materials Selection in Engineering Design</td>
<td>3</td>
<td>Prerequisite(s): ENGR 45 and ME 116. ME 116 may be taken concurrently.</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>ME 196G</td>
<td>Engineering Research Methodology and Communication for Undergraduate Students.</td>
<td>3</td>
<td>Prerequisite(s): ME 108</td>
<td>Fall, Spring, Summer</td>
<td></td>
</tr>
<tr>
<td>ME 196H</td>
<td>Ceramic Materials</td>
<td>3</td>
<td>Prerequisite(s): ENGR 112</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>ME 196I</td>
<td>Engineering Research Methodology and Communication for Undergraduate Students.</td>
<td>3</td>
<td>Prerequisite(s): ENGR 112</td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>ME 196J</td>
<td>Special Problems</td>
<td>1 - 3</td>
<td></td>
<td>Fall, Spring</td>
<td></td>
</tr>
<tr>
<td>ME 196K</td>
<td>Stochastic Modeling for Engineers</td>
<td>3</td>
<td>Prerequisite(s): MATH 45 or equivalent.</td>
<td>Fall, Spring</td>
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</tr>
</tbody>
</table>

**Prerequisite Notes:***

- ENGR 112
- ENGR 132
- ENGR 45
- ME 116
- MATH 45

**Course Descriptions:**

- **ME 196B:** Study of product design process and formal design methodologies. Various topics in product and system design including creativity, visualizations and communications, human factors, design for X methodology decision science, economics, product design and robust quality design.

- **ME 196C:** Computer programming languages such as C/C++, Java, Processing, and their applications to engineering problem solving using computer graphics, simulations, and physical prototyping. Programming computer communications with microprocessors for controlling sensors and motors.

- **ME 196D:** Study of forensic engineering using state of the art technology in vehicles that contribute to passenger safety and stability. Application of principles of dynamics for forensic investigation and reconstruction of vehicle collisions. Study of seat belts, airbags, and electrohydraulic stabilizers. Study of the Event Data Recorders (EDRs), data analysis and verification of real cases using classical reconstruction techniques, and the use of computer simulations in two and three dimensions.

- **ME 196E:** Study of forensic engineering using state of the art technology in vehicles that contribute to passenger safety and stability. Application of principles of dynamics for forensic investigation and reconstruction of vehicle collisions. Study of seat belts, airbags, and electrohydraulic stabilizers. Study of the Event Data Recorders (EDRs), data analysis and verification of real cases using classical reconstruction techniques, and the use of computer simulations in two and three dimensions.

- **ME 196F:** Quantitative treatment of materials selection for engineering applications. Discussion of the relationship between design parameters and materials properties. Emphasis on the influence of processing and fabrication on the properties of metals, ceramics, polymers and composites as related to the overall design process. Sustainability, Eco-Design, and manufacturability considerations.

- **ME 196G:** Air quality standards. Stationary and transportation emission sources. Chemical and physical interactions of air pollutants, including greenhouse gases, with the atmosphere. Introduction to air quality modeling, including atmospheric temperature effects due to longwave thermal radiation. Air Quality measurement. Emission control strategies and design. Air resources economics and policy.

- **ME 196H:** Thermodynamics and kinetics of common phase transformations and metal alloys with emphasis on relationships between them. Industrial applications for ceramic and glass components along with the processing and materials selection options available for a given material and application. Topics covered include common ceramic structures, thermal and physical properties of ceramics, powder processing, creep resistance and toughening mechanisms, electronic properties of ceramics, and glass forming.

- **ME 196I:** Fundamentals of structure, processing and properties of engineering ceramics with an emphasis on the relationships between them. Industrial applications for ceramic and glass components along with the processing and materials selection options available for a given material and application. Topics covered include common ceramic structures, thermal and physical properties of ceramics, powder processing, creep resistance and toughening mechanisms, electronic properties of ceramics, and glass forming.

- **ME 196J:** Fundamentals of structure, processing and properties of metals and metal alloys with emphasis on relationships between them. Thermodynamics and kinetics of common phase transformations and resulting microstructures and mechanical properties. Slip mechanisms in single crystals, and metallic alloy strengthening mechanisms including grain size, solute, precipitation, cold-work, and martensite. Specific heat treatment and mechanical processing procedures for steel and aluminum alloys as well as application of these processes to other alloy systems.

- **ME 199:** Individual projects or directed reading. Note: Open only to students who appear competent to carry on individual work. Admission requires approval of an instructor and the student’s advisor. May be repeated for credit.

- **ME 206:** Fundamentals and applications of stochastic processes for engineers, including a review of engineering statistics, autoregression moving average (ARMA) models, characteristics of ARMA models, ARMA modeling and forecasting, and transformation from discrete models to continuous models. Applications of stochastic processes in engineering field, e.g., precision manufacturing, monitoring and diagnosis of machines, tools, and processes, system identification, vibrations, and statistical process control (SPC).
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<tr>
<td>ME 209</td>
<td>Research Methodology.</td>
<td>2</td>
<td>ME 105, ME 138.</td>
<td>Fall, Spring</td>
<td>Research methodology and engineering approach to problem solving. Includes an orientation to the requirements for Master's thesis in Mechanical Engineering. Students will be exposed to a variety of possible thesis topics. Students will be required to complete an essay concerning aspects of engineering research. The student will be required to prepare a presentation and also review other students work. Note: Graduate Writing Intensive (GWI) course.</td>
</tr>
<tr>
<td>ME 236</td>
<td>Computer Controlled Manufacturing Processes.</td>
<td>3</td>
<td>ME 105, ME 138.</td>
<td>Fall, Spring</td>
<td>Applications of logic and motion controls in manufacturing. Computer controlled open and feedback systems. CNC machining processes, CNC programming. Applications of robots in manufacturing, programming for robots. PLC logic controls, sensors and output devices, creating ladder logic diagrams for the PLCs. Design for Manufacturing (DFM) and Design for Assembly (DFA) of modern computer controlled machines. Note: Lectures as well as some tutorial activities are covered in two 75-minute classes per week.</td>
</tr>
<tr>
<td>ME 237</td>
<td>Digital Control of Manufacturing Processes.</td>
<td>3</td>
<td>ME 105, ME 138, MATH 45.</td>
<td>Fall, Spring</td>
<td>Introduction to both the theory and applications of digital control of manufacturing processes, including the discrete controller for manufacturing, digital controlled systems for manufacturing, sensors of control loop for manufacturing, discrete process models for manufacturing, manufacturing system input and response, and stability analysis of manufacturing systems.</td>
</tr>
<tr>
<td>ME 238</td>
<td>Automated Inspection.</td>
<td>3</td>
<td>ME 105, ME 138.</td>
<td>Fall, Spring</td>
<td>Introduction to measurement for machine accuracy and process quality including the use of coordinate measuring machines; system considerations and sensor technology in automated visual inspection; applications of pattern recognition in automated inspection.</td>
</tr>
<tr>
<td>ME 240</td>
<td>Mechanical Design &amp; Failure Analysis.</td>
<td>3</td>
<td>ME 105, ME 138.</td>
<td>Fall, Spring</td>
<td>Advanced multidisciplinary design analysis, finite element modeling, computer simulations, and statistical methods to increase product safety and reduce product liability. Investigate and recreate cases of failures of machines, vehicles, structures and assemblies under dynamic or static loads or material failures using current software tools. Design with safety considerations. Use of two and three-dimensional models to study failures. Use of the theory of reliability and forensic engineering to increase product safety.</td>
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<tr>
<td>ME 241</td>
<td>Optimum Mechanical Design.</td>
<td>3</td>
<td>ME 105, ME 138.</td>
<td>Fall, Spring</td>
<td>Mathematical methods of optimum design using linear and non-linear optimization; constrained and unconstrained optimum design. Optimization of mechanical elements and assemblies to meet design requirements, material characteristics and geometry. Numerical methods and computer usage in optimal design. Application of these principles to realistic design problems.</td>
</tr>
<tr>
<td>ME 243</td>
<td>Accident Biomechanics Reconstruction.</td>
<td>3</td>
<td>ME 105, ME 138.</td>
<td>Fall, Spring</td>
<td>Study of the interaction of the human body kinematics and dynamic biomechanics in accidents involving the work place, activities and vehicles. Impact injury mechanisms, response of the human body using computer models and software analysis tools. Biomechanical response to impact, and tolerance levels. Human factors that influence the biomechanical reactions of people with their vehicles and the environment. Photographic and video analysis, computer graphics, and computer simulations. Forensic engineering to determine the dynamic forces that cause injury in different situations.</td>
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<tr>
<td>ME 240</td>
<td>Mechanical Design &amp; Failure Analysis.</td>
<td>3</td>
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<td>Fall, Spring</td>
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</table>
Analytical and numerical analysis of Navier-Stokes equations for laminar flow; stability of laminar flow and its transition to turbulence. Analyzes stream functions and the velocity potential, and vorticity dynamics. The mathematical analysis of incompressible turbulent flows; development of Reynolds stress equations, turbulent boundary layer equations, turbulent flow in pipes and channels, and turbulent jets and wakes.

**ME 255. Advanced Heat Transfer.** 3 Units
*Term Typically Offered:* Fall, Spring

Advanced topics in heat transfer including analytical and numerical solutions to heat conduction equations in both the steady and unsteady state; use of approximate and analytical techniques for the prediction of convective heat transfer in laminar and turbulent flows, heat transfer in high-velocity flows; analysis of the nature of thermal radiation and radiative heat transfer in enclosures.

**ME 256. Mechanics and Thermodynamics of Compressible Flow.** 3 Units
*Prerequisite(s):* ENGR 201 or ENGR 202; ENGR 201 or ENGR 202 may be taken concurrently.
*Term Typically Offered:* Fall, Spring

Application of the laws of fluid mechanics and thermodynamics to problems of compressible flow in two and three dimensions; small perturbation theory, hodograph method and similarity rules for supersonic flow. Method of characteristics, shock wave analysis for steady, unsteady and supersonic, one-dimensional flows.

**ME 258. Advanced Thermodynamics.** 3 Units
*Prerequisite(s):* ENGR 202.
*Term Typically Offered:* Fall, Spring

Advanced topics in thermodynamics including applications of fundamental postulates to chemical, mechanical, magnetic and electric systems, theory of fluctuations, and irreversible thermodynamics.

**ME 259. Introduction to Computational Fluid Dynamics.** 3 Units
*Prerequisite(s):* ENGR 132, ME 105 and ME 126.
*Term Typically Offered:* Fall, Spring

Fundamentals of computational fluid dynamics, modeling of physical processes, including the fluid flow, heat and mass transfer, and computer skills. Basic concepts of numerical analysis using computer, including the solutions of ordinary and partial differential equations. Basic hands-on experience on using commercial computational fluid dynamics software packages.

**ME 270. Advanced Computer-Aided Design of Dynamic Systems.** 3 Units
*Prerequisite(s):* ME 114 or ME 171.
*Term Typically Offered:* Fall, Spring

Computer analysis, synthesis and modeling of physical systems including single and multiple degree of freedom, and linear/nonlinear systems. Use of Computer-Aided Modeling software (CAMP-G) and Advanced Digital Simulation Languages (ADSL). Design and analysis of multi-energy systems using Block Diagrams, Bond Graphs, and state space equation representation. Design of electromagnetic, electro-hydraulic servomechanisms, actuators and driven systems; introduction to multi-variable control of complex systems; stability, controllability, and observability.

**ME 272. Finite Element Modeling in Computer-Aided Design.** 3 Units
*Prerequisite(s):* ME 105, ME 173.
*Term Typically Offered:* Fall, Spring

Finite-element methods in the analysis and optimal design of machine components, structures, and distributed systems. Generation of FEA models using computers. Theoretical and practical application of a finite element code such as PATRAN to the solution of engineering problems. Topics include static and vibration analysis, stress analysis buckling, normal modes, direct and modal frequency response, transient analysis, and heat transfer.

**ME 273. Multibody Dynamics of Rigid and Flexible Systems.** 3 Units
*Prerequisite(s):* Graduate standing.
*Term Typically Offered:* Fall, Spring

Analysis and design of rigid and flexible multi-body assemblies in two and three dimensions with applications to mechanisms, machinery, ground and space vehicles. Kinematic and kinetic analysis in two and three dimensions; impulse and impact forces; modes of vibration. Use of solid modeling, dynamic analysis and finite element analysis methods.

**ME 274. Introduction to Flight Dynamics.** 3 Units
*Prerequisite(s):* MATH 45, ENGR 110.
*Term Typically Offered:* Fall, Spring


**ME 275. Analysis of Aircraft Structures.** 3 Units
*Prerequisite(s):* Graduate standing.
*Term Typically Offered:* Fall, Spring


**ME 276. Advanced Vibration Theory.** 3 Units
*Prerequisite(s):* ME 114, ME 171, or CE 166.
*Term Typically Offered:* Fall, Spring


**ME 277. Space Systems Engineering Management.** 3 Units
*Prerequisite(s):* ENGR 110.
*Term Typically Offered:* Fall, Spring

Systems Engineering approach to plan and direct engineering projects. Emphasizes systems engineering process, requirement design fundamentals, subsystem fundamentals, trade studies, integration, technical reviews, case studies and ethics. Space exploration used as an example; skills applicable to any engineering project. Project-orientated course to plan the design of space and ground vehicles, satellites, airplanes and multidisciplinary subsystems.
ME 280. Advanced Mechanical Properties of Materials. 3 Units
Prerequisite(s): ME 180
Term Typically Offered: Fall, Spring

Mechanical properties of materials, with special attention to dislocations/defects and deformation and fracture control mechanisms. Mechanical properties of conventional engineering materials as well as advanced materials such as nanostructured materials are considered. Effects of defects on mechanical behavior at ambient and elevated temperature are discussed with attention given to strengthening mechanisms, creep, fatigue and fracture.

ME 285. Materials for Extreme Environments. 3 Units
Prerequisite(s): ME 180 or PHYS 110
Term Typically Offered: Fall, Spring

Comprehensive study of material applications in extreme environments, with special attention to mechanical, thermal and electronic behavior. Extreme temperature, pressure, corrosive or toxic environments and high rate deformation are considered. Currently available materials as well as emerging materials are explored for specific applications such as undersea, outer space, ballistic, nuclear, combustion, and other extreme application arenas.

ME 295. Fieldwork. 1 - 3 Units
Prerequisite(s): Permission of Graduate Coordinator or Department Chair.
Term Typically Offered: Fall, Spring

Supervised employment in industry or government that provides practical work experience. Requires satisfactory completion of the work assignment and a written report.

Note: Units may not be applied toward meeting the 30-unit requirement of the degree.

Credit/No Credit

ME 296L. Creative Engineering Design for Quality Products. 3 Units
Prerequisite(s): ME 138 and ME 180.
Term Typically Offered: Fall, Spring

Introduction to analytical and systematic design methodologies in creative and quality product design. Topics include product design process, creative conceptual design tools such as axiomatic design, theory of inventive problem solving (TRIZ), and engineering decision making. Quality product design including design of experiments, robust design techniques, and design optimization. Assignments include application of these principals to solving open-ended design problems using computing tools. Two hour lecture; Three hour laboratory.

ME 296M. Space Mission Design and Analyses. 3 Units
Term Typically Offered: Fall, Spring

This course examines the methods of systems design and analyses required to design and optimize the space mission over its life cycle. The process of optimization covers all the major elements of a space mission such as the ground systems, launch vehicles, spacecraft/payload, space environment, in-orbit operation and maintenance, and end-of-life disposal. The optimization of the overall mission must balance between performance, cost and reliability of all the major elements.

ME 296O. Advanced Heat Transfer. 3 Units
Prerequisite(s): ME 126 and ENGR 202.
Corequisite(s): ENGR 202.
Term Typically Offered: Fall, Spring

Advanced topics in heat transfer including analytical and numerical solutions to heat conduction equations in both the steady and unsteady state; use of approximate and analytical techniques for the prediction of convective heat transfer in laminar and turbulent flows, heat transfer in high-velocity flows; analysis of the nature of thermal radiation and radiative heat transfer in enclosures.

ME 296P. Advanced Dynamics. 3 Units
Prerequisite(s): Graduate Standing
Term Typically Offered: Fall, Spring


ME 296Q. Advanced Solid Modeling. 3 Units
Prerequisite(s): Student must pass ME 116.
Term Typically Offered: Fall, Spring

Advanced topics in computer-aided design for mechanical product design. Reviews on fundamental part and assembly modeling, and engineering drawings. Advanced modeling topics such as surface modeling, top-down assembly, macros and API programming, manufacturing oriented design such as sheet metal, plastic and mold design.

ME 296S. Advanced CAD for Aerospace Applications. 3 Units
Term Typically Offered: Fall, Spring

Design of aerospace systems including profile definition, constraints, operations and visualizations, component design, transformation features, and insertions using advanced CAD software such as CATIA. Creation of complete assembly design including creation of product files, identifying, inserting and displacing components, constraining parts, numbering parts and scene creation. Specifics of sheet metal design for aerospace design including creation of flange, cut-out, joggle, holes, stampings and patterns.

ME 296U. Advanced Computer-Aided Product Design. 3 Units
Prerequisite(s): ENGR 6 and ME 116, or graduate-level status
Term Typically Offered: Fall, Spring

Advanced topics in computer-aided design and applications for mechanical product design. Reviews of fundamental parts, assembly modeling, and engineering drawings. Advanced modeling topics such as surface modeling, design for manufacturing, simulation-based design, top-down assembly, macros and API programming.
ME 296V. Advanced Control System Design. 3 Units
Prerequisite(s): ME 172
Design of Multi-Input/Multi-Output controllers using linear quadratic regulator method and advanced controls architectures. Architectures include Proportional, Proportional Integral and Proportional Integral Derivative (filter) schemes. The course also includes Digital Control, Optimal Control, Introduction to Guidance, Navigation and Control techniques.

ME 296W. Accident Biomechanics. 3 Units
Prerequisite(s): ENGR 110
Study of the interaction of human body kinematics and dynamic biomechanics in accidents involving human activities and vehicles. Impact injury mechanisms, response of the human body using computer models and software analysis tools. Biomechanical response to impact, and tolerance levels. Human factors that influence the biomechanical reactions of people with their vehicles and the environment. Photographic and video analysis, computer graphics, and computer simulations. Forensic engineering to determine the dynamic forces that cause injury in different situations.

ME 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Any properly qualified student who wishes to pursue a problem of his/her own choice may do so if the proposed subject is acceptable to the faculty member with whom he/she works and to his/her advisor. Credit/No Credit

ME 500. Master's Thesis. 1 - 6 Units
Prerequisite(s): Open to students who have advanced to candidacy and have secured approval of a Thesis proposal form one full semester prior to registration
Term Typically Offered: Fall, Spring
Completion of a thesis. Credit given upon successful completion of a Master's Thesis (4 - 6 units; maximum 6 units).
Note: Course may be repeated for no more than 6 units total.

Military Science (MILS)

MILS 14. Introduction to Military Science I. 1 Unit
Term Typically Offered: Fall, Spring
Discussion of the military as one element of national power; its role in American defense; its purpose, weapons and organizations; its participation in international treaties. Discussion of other subjects required for a student to understand the military and its place in modern society. Fall only.

MILS 15. Introduction to Military Science II. 1 Unit
Term Typically Offered: Fall, Spring
Discussion of the military's role in American Society, current society attitudes, sources of its leaders, and an examination of its structure. Spring only.

MILS 24. Principles and Tactics of the Soldier. 1 Unit
Term Typically Offered: Fall, Spring
Familiarizes students with the nine principles of war, and gain an appreciation for the role of the commander in warfare. A study of small unit level will enable the student to understand the nature of the battlefield environment, and will put the decisions of the commander into perspective. These discussions will lead to the discussion of the elements of leadership to be presented in MILS 25. Fall only.

MILS 25. Leadership Assessment and Beginning Counseling Skills. 1 Unit
Term Typically Offered: Fall, Spring
Students will gain insight and practical experience in the manager-leader skills of counseling using the Army's sixteen leadership dimensions as a model. The student will understand the elements of leadership, and undergo the Army's Leadership Assessment Program in class. Interactive role playing scenarios will be conducted and behavior recorded in a group setting. The student will be given individual feedback on the results of the assessment by scheduling a private appointment with the instructor. Spring only.

MILS 99. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Intensive examination of one or more special problems in Military Science. Possible areas of study include examination of the structure of the military and its place in modern society, participation in international treaties, leadership skills, decision making, as well as other topics in military science.

MILS 134. Principles Of Instruction. 2 Units
Term Typically Offered: Fall, Spring
Principles and practice in fundamentals applicable to military instruction to include planning, presentation, execution and evaluation. Student presentations exemplify lecture material. Application of small combat unit tactics (squad and platoon) will solidify concepts discussed in class. Fall only.

MILS 135. Military Operations. 2 Units
Prerequisite(s): Upper division standing, MILS 134 or instructor permission.
Term Typically Offered: Fall, Spring
Military small unit tactical theory and application are taught and serve as a basis for leadership development. Introduces principals of combat contemporary operating environment, Geneva Law of Land Warfare, and military offensive and defensive operations. Emphasis is placed on developing critical thinking, problem solving, and communication skills. Spring only.

MILS 144. Principles of Military Administration. 2 Units
Term Typically Offered: Fall, Spring
Comprehensive course in the organization, structure, and functions of the various types of staffs and an introduction to the theory and application of military law and legal systems focusing on the Uniform Code of Military Justice and the rights of the accused under the Constitution. Fall only.

MILS 145. Military Leadership and Ethics. 2 Units
Term Typically Offered: Fall, Spring
Capstone seminar designed to bring together all previous Military Science instruction. Examines contemporary leadership problems. Designed to provide the ROTC cadet with the basic management skills necessary for a foundation for future growth as a junior officer. Spring only.
MS Business Analytics (MSBA)

MSBA 201. Programming for Business Analytics. 3 Units
Term Typically Offered: Fall, Spring, Summer

The purpose of this course is to introduce and familiarize students with key aspects of Python and R programming languages that are necessary for computation in business analytics. Upon successful completion of this course, students will be familiar with Python and R programming constructs, data structures, retrieving data from Excel, databases and other online sources, pre-processing data, and various types of data analysis techniques.

MSBA 202. Data Management for Business Analytics. 3 Units
Term Typically Offered: Fall, Spring, Summer

The course is designed to provide the student with the essential knowledge needed to analyze, evaluate, design, implement, and administer a business database. The topics include: 1. The terminology and fundamental concepts associated with the relational database; 2. The design and implementation of a relational database; and 3. The business data analysis using Oracle SQLPlus.

MSBA 203. Data Visualization and Communication for Business Analytics. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course examines advanced information technologies that extract non-trivial, actionable, and novel knowledge from data to achieve strategic goals of organizations. The course emphasizes data visualization, data communication, business intelligence applications data warehousing, and data mining.

MSBA 204. Operations Analytics and Decision Models. 3 Units
Term Typically Offered: Fall, Spring, Summer

Introduces students to operations analytics and decision models for the solution and analysis of business problems. Topics include mathematical programming, decision theory, analysis of waiting lines, simulation, and Markov processes.

MSBA 205. Data Analytics for Business. 3 Units
Prerequisite(s): MSBA 201
Term Typically Offered: Fall, Spring, Summer

This data analytics course focuses on the application of statistical methods to business problems. Emphasis is placed on case studies, model building techniques, statistical reasoning, and communications of statistical results. A statistical computer package will be used in the course.

MSBA 206. Data Mining for Business. 3 Units
Prerequisite(s): MSBA 205
Term Typically Offered: Fall, Spring, Summer

This course covers data mining methods commonly used in business including advanced data visualization, dimension reduction, classification methods, association rules, cluster analysis, forecasting time series analysis. This course focuses on applications of data mining methods in the business environment.

MSBA 207. Machine Learning for Business. 3 Units
Prerequisite(s): MSBA 206
Term Typically Offered: Fall, Spring, Summer

This course provides an introduction to machine learning and statistical pattern recognition and covers basic concepts, principles, methods, implementation techniques, and applications of machine learning in business.

MSBA 211. Marketing Analytics. 3 Units
Prerequisite(s): MSBA 205
Term Typically Offered: Fall, Spring, Summer

The course covers current developments in marketing analytics. Topics include methodologies for market forecasting, estimating market size, and demand; evaluating marketing ROI and customer lifetime value; modeling of segmentation, positioning, competitive analysis, conjoint analysis, distribution channel analytics, and sales analytics. Students will also learn the latest analytics tools to collect, analyze, and visualize data for decision making and communicating to senior executives.

MSBA 212. Social Media Analytics. 3 Units
Prerequisite(s): MSBA 206
Term Typically Offered: Fall, Spring, Summer

This course prepares students to draw business insights and make business decisions by mining social media data.

MSBA 213. Financial Analytics. 3 Units
Prerequisite(s): MSBA 205
Term Typically Offered: Fall, Spring, Summer

This course introduces and develops the collection, analysis, visualization, and interpretation of financial data. The course utilizes current statistical programming environments and techniques applied to analytics-friendly finance problems including optimum portfolio selection, quantitative security analysis, performance measurement, and back-testing.

MSBA 214. Big Data Technologies for Business. 3 Units
Prerequisite(s): MSBA 201, MSBA 202
Term Typically Offered: Fall, Spring, Summer

This course addresses the concepts and principles of Big Data and how Big Data can be used in the enterprise. The course starts with an overview of the fundamental principles of Big Data and its role in making better decisions and predictions in the organization. Following the fundamentals of Big Data, we address the technology, infrastructure and applications of Big Data.
Music (MUSC)

MUSC 3.  MIDI Sequencing and Notation.  2 Units  
Term Typically Offered: Fall, Spring

Introduction to professional music software applications and MIDI hardware. Exploration of various hardware options such as keyboards, computers, synthesizers, samplers, and drum machines. Topics include basic MIDI principles, creating, performing, and printing music using computer-based sequencing and notation software.

MUSC 4.  Elements Of Music.  2 Units  
Term Typically Offered: Fall only

Elements of Music is designed to introduce you to some of the fundamental materials of music and musicianship with the goal of attaining basic musical literacy. The course focuses on the understanding of some of the ways rhythm and pitch function in music, the interpretation of the most common elements of a musical score, and the association of music notation with sound.

MUSC 8.  Basic Music.  3 Units  
General Education Area/Graduation Requirement: Arts (Area C1)  
Term Typically Offered: Fall, Spring

Orientation designed to provide musical knowledge, skills, and competencies necessary for reading music or listening to music.  
Note: May not be taken for credit by music majors.

MUSC 9.  Music In World Cultures.  3 Units  
General Education Area/Graduation Requirement: Arts (Area C1)  
Term Typically Offered: Fall, Spring

Designed as a survey of world music for music majors. Explores how music is used as a form of human expression in all cultures. Musical instruments, forms and styles, and the roles and functions of music in traditional and contemporary societies in various cultures throughout the world.

MUSC 10A.  Survey of Music Literature I.  3 Units  
General Education Area/Graduation Requirement: Arts (Area C1)  
Term Typically Offered: Fall only

Survey of Medieval, Renaissance and Baroque music literature in Western art music, its stylistic development, and cultural context. Emphasis on score reading and listening. Introduction to primary source readings and musicological literature.

MUSC 10B.  Survey of Music Literature II.  3 Units  
General Education Area/Graduation Requirement: Arts (Area C1)  
Term Typically Offered: Spring only

Survey of Classical and Romantic music literature in Western art music, its stylistic development, and cultural context. Emphasis on critical listening and reading multi-part musical notation in treble and bass clefs. Introduction to primary source readings and musicological literature.

MUSC 10C.  Survey of Music Literature III.  3 Units  
Term Typically Offered: Fall only

Survey of 20th and 21st Century music literature in Western art music, its stylistic development, and cultural context. Emphasis on score reading and listening. Introduction to primary source readings and musicological literature.

MUSC 11A.  Music Theory I.  2 Units  
Prerequisite(s): MUSC 4 or placement by exam at the time of university enrollment.  
Corequisite(s): MUSC 12A for students enrolled in all music degree programs other than the BA Music degree.  
Term Typically Offered: Fall, Spring

Music theory I is designed to introduce students to some of the materials and structures of certain styles of tonal and modal music. The course begins with a brief review of fundamentals before moving quickly into the understanding of two important kinds of notational shorthand. The second half of the course is concerned primarily with the study of counterpoint. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 11B.  Music Theory II.  2 Units  
Prerequisite(s): MUSC 11A or placement by exam at the time of university enrollment.  
Corequisite(s): MUSC 12B for students enrolled in all music degree programs other than the BA Music degree.  
Term Typically Offered: Fall, Spring

Theory II is designed to deepen students’ understanding of some of the materials and structures of certain styles of tonal and modal music. The course is a balance of taking music apart through score analysis and putting music together through model composition, or creating original music that imitates a particular style. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 11C.  Music Theory III.  2 Units  
Prerequisite(s): MUSC 11B or placement by exam at the time of university enrollment.  
Corequisite(s): MUSC 12C for students enrolled in a music degree program other than the BA Music degree.  
Term Typically Offered: Fall, Spring

Theory III is designed to deepen students’ understanding of some of the materials and structures of certain styles of tonal and modal music. The course is a balance of taking music apart through score analysis and putting music together through model composition, or creating original music that imitates a particular style. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 12A.  Musicianship I.  2 Units  
Prerequisite(s): MUSC 4 or placement by exam at the time of university enrollment.  
Corequisite(s): MUSC 11A  
Term Typically Offered: Fall, Spring

Musicianship I is a skills-focused course designed to improve the way students associate music notation with sound. By improving their skills in this area, students will be able to read music more quickly and accurately, and understand better the music they are listening to. They will accomplish these tasks through a structured approach to sight-reading, transcription, improvisation, and keyboard playing. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.
MUSC 12B. Musicianship II. 2 Units
Prerequisite(s): MUSC 12A or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 11B.
Term Typically Offered: Fall, Spring

Musicianship II is a skills-focused course designed to improve the way students associate music notation with sound. By improving their skills in this area, students will be able to read music more quickly and accurately, and understand better the music they are listening to. They will accomplish these tasks through a structured approach to sight-reading, transcription, improvisation, and keyboard playing. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 12C. Musicianship III. 2 Units
Prerequisite(s): MUSC 12B or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 11C.
Term Typically Offered: Fall, Spring

Musicianship III is a skills-focused course designed to improve the way students associate music notation with sound. By improving their skills in this area, students will be able to read music more quickly and accurately, and understand better the music they are listening to. They will accomplish these tasks through a structured approach to sight-reading, transcription, improvisation, and keyboard playing. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 14B. Basic Piano for Majors. 1 Unit
Prerequisite(s): Music major or minor and instructor permission.
Term Typically Offered: Fall, Spring

Development of fundamental keyboard skills for the non-keyboard Music major. Sectioned according to the ability of the student. Completion of MUSC 14D meets the departmental piano requirement.

MUSC 14C. Basic Piano for Majors. 1 Unit
Prerequisite(s): Music major or minor and instructor permission.
Term Typically Offered: Fall, Spring

Development of fundamental keyboard skills for the non-keyboard Music major. Sectioned according to the ability of the student. Completion of MUSC 14D meets the departmental piano requirement.

MUSC 14D. Basic Piano for Majors. 1 Unit
Prerequisite(s): Music major or minor and instructor permission.
Term Typically Offered: Fall, Spring

Development of fundamental keyboard skills for the non-keyboard Music major. Sectioned according to the ability of the student. Completion of MUSC 14D meets the departmental piano requirement.

MUSC 17. Voice Class. 1 Unit
Term Typically Offered: Fall, Spring

Elementary instruction in the correct use of the singing voice and the development of style in singing. Open to all students beginning the study of voice. Recommended for elementary credential candidates. May be taken for credit four times.

MUSC 18. Music Appreciation. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Basic music orientation for the layman. A non-technical consideration of the various aspects of music literature designed to stimulate interest in all phases of music.

Note: Not open to music majors.

MUSC 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the meaning of higher education for a music major, to the resources of the University, and to skills for lifelong learning. Designed to help students develop academic success strategies, time management for the music major, and to improve information literacy, intercultural competence, and integrative thinking. Special attention to career readiness for music majors. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

MUSC 25. Voice For Music Theater. 1 Unit
Prerequisite(s): Instructor permission and proficiency examination.
Term Typically Offered: Fall, Spring

Training in vocal techniques and repertoire of the modern American musical theater. May be taken for credit twice.

MUSC 32A. Piano: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 32B. Piano: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 35A. Harpsichord/Organ: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only.

Note: May be taken for credit four times.
MUSC 35B. Harpsichord/Organ: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only.
Note: May be taken for credit four times.

MUSC 37A. Voice: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 37B. Voice: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 38S. Beginning Shakuhachi. 1 Unit
Term Typically Offered: Fall, Spring
Elementary class instruction in the fundamentals of playing the traditional Japanese flute known as the shakuhachi. The focus is on fundamental blowing and fingering techniques, as well as the basis of the fu ho u notation system.
Note: Open to Music majors and minors; others by instructor permission.

MUSC 39. Beginning Folk Guitar. 1 Unit
Term Typically Offered: Fall, Spring
Folk guitar for the beginner, with emphasis on chords and strums as well as the playing of melodies. Guitars are to be furnished by the student.

MUSC 40B. Brass Methods. 1 Unit
Term Typically Offered: Fall only
Class instruction in brass instruments including performance techniques and pedagogy. Required for Music Education majors; other music majors admitted if space permits.

MUSC 40P. Percussion Methods. 1 Unit
Term Typically Offered: Spring only
Class instruction in percussion instruments including fundamental performance techniques and pedagogy. Required for Music Education majors; other music majors admitted if space permits.

MUSC 40S. String Methods. 1 Unit
Term Typically Offered: Fall only
Class instruction in string instruments. Instruction of fundamental performance techniques and pedagogy of string instruments. Required for Music Education majors; other music majors admitted if space permits.

MUSC 40W. Woodwinds Methods. 1 Unit
Term Typically Offered: Spring only
Class instruction in woodwind instruments. Instruction of fundamental performance techniques and pedagogy. Required for Music Education majors; other music majors admitted if space permits.

MUSC 42. Introductory Composition. 2 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall only
Individual instruction in composition for the beginning composition major. Work will be designed to fit the preparation of the student, with emphasis on principles of sound melodic and harmonic construction. Original compositions will develop a mastery of the smaller forms. May be taken twice for credit.

MUSC 43A. Jazz Improvisation I. 2 Units
Prerequisite(s): MUSC 11B
Term Typically Offered: Fall, Spring
Part one of a two-semester study of jazz improvisation required of all jazz studies majors. This course will provide the student with basic and intermediate skills of creative improvisation styles in the jazz idiom. In order to expand the skill level of improvisation of each particular jazz student, this class will focus on four main areas: listening, scale and chord development, repertory development and transcribing jazz solos.

MUSC 43B. Jazz Improvisation II. 2 Units
Prerequisite(s): MUSC 43A
Term Typically Offered: Fall, Spring
Part two of a two-semester study of jazz improvisation required of all jazz studies majors. The course will provide the student with intermediate and advanced skills of creative improvisation styles in the jazz idiom. In order to expand the skill levels of improvisation of each particular jazz student, this class will focus on four main areas: listening, scale and chord development, repertory development, and transcribing jazz solos.

MUSC 45A. West African Drumming. 1 Unit
Term Typically Offered: Fall, Spring
Students will turn the classroom into a cross-cultural space as they engage and explore West African folkloric music through guided viewing of multimedia; discussion of culture as a living, evolving entity; and rehearsing and performing on West African percussion instruments as an ensemble. Students will improve their rhythm skills, learn about West African musical performance practice, experience and reflect on new modes of artistic expression, and deepen their understanding of African culture and its relationship to the West.
Note: Instruments will be provided to students at no charge.

MUSC 50. Jazz Applied: Intermediate. 1 Unit
Prerequisite(s): Approval by jazz area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction in jazz performance.
Note: May be taken for credit four times.
MUSC 55A. Violin: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 55B. Violin: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 56A. Viola: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 56B. Viola: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 57A. Cello: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 57B. Cello: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 58A. Double Bass: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 58B. Double Bass: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 60. Introduction to String Project Pedagogy. 1 Unit
Term Typically Offered: Fall, Spring
In this course students study pedagogical techniques and participate in a step-by-step practicum as assistant teachers in the Sacramento State String Project. Set in a rigorous teaching lab, the course gives students experience both observing and assistant teaching in the String Project program. Student assistants master effective methods of teaching fundamental string instrument skills to beginners, including correct position, tone production, reading proficiency, intonation, phrasing and listening.

MUSC 65A. Flute: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 65B. Flute: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 66A. Oboe: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 66B. Oboe: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 67A. Bassoon: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 67B. Bassoon: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 68A. Clarinet: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.
MUSC 68B. Clarinet: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 69A. Saxophone: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 69B. Saxophone: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 70A. Percussion: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 70B. Percussion: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 71A. Harp: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 71B. Harp: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 74A. Guitar: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 74B. Guitar: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 79A. Trumpet: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 79B. Trumpet: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 80A. Trombone: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 80B. Trombone: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 81A. Baritone: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 81B. Baritone: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 83A. French Horn: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission. Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.
MUSC 93B. French Horn: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 94A. Tuba: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 94B. Tuba: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 96. Intro to Hip-Hop Beat-Making. 1 Unit
Corequisite(s): MUSC 118D

This one-unit course is an optional lab supplement to the Area C1 GE course 118D: Hip-Hop in Urban America. Students will learn skills in hip-hop production software including Reason and Ableton Live. Students will learn to create beats including instrument building, sampling, and sequencing. The lab will offer students the opportunity to engage in a hands-on way with the course material in Music 118D, and will track the regional scope of the course schedule closely.

MUSC 96A. West African Drumming. 1 Unit

Term Typically Offered: Fall, Spring

Students will turn the classroom into a cross-cultural space as they engage and explore West African folkloric music through readings, critical listening, essay responses, and performance in an ensemble setting using several West African drums and percussion instruments. Students will improve their rhythm skills, learn about West African musical performance practice, experience and reflect on new modes of artistic expression, and deepen their understanding of African culture and its relationship to the West.

Note: Instruments will be provided to students at no charge.

MUSC 99. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the work is to be conducted and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for lower division students. Open only to students who appear competent to carry on individual work.

Credit/No Credit

MUSC 100A. Concert Attendance. 1 Unit
Term Typically Offered: Fall, Spring

Designed to develop critical listening, aural analysis, and the appreciation of a wide range of musical forms and genres. Each student will be required to attend a minimum of ten concerts approved by the Music Department and submit a portfolio of programs attended. Written reviews are required for a determined number of the ten concerts attended.

MUSC 100B. Concert Attendance. 1 Unit
Term Typically Offered: Fall, Spring

Designed to develop critical listening, aural analysis, and the appreciation of a wide range of musical forms and genres. Each student will be required to attend a minimum of ten concerts approved by the Music Department and submit a portfolio of programs attended with comments about the music and performance. May be taken for credit eight times.

MUSC 101. Experiences In Music. 3 Units
Term Typically Offered: Fall, Spring

Development of essential musical skills and knowledge for teaching music in the elementary classroom including competencies necessary for reading and notating music in the elementary classroom. The study of curriculum and literature through songs, rhythmic movement, instrumental activities, creating and improvisation, and listening. Lecture/lab.

Note: Required for the Liberal Studies major.

MUSC 104. Contemporary Music Theory and Musicianship. 3 Units
Prerequisite(s): MUSC 11C and MUSC 12C, or placement by exam at the time of university enrollment.
Term Typically Offered: Spring only

In this course, students will engage the art music of today from both a theoretical standpoint; that is, an understanding of musical materials and structures through analysis; and a creative standpoint; that is, creating your their music based upon the models they study through composition and improvisation.

MUSC 107. Composition. 2 Units
Prerequisite(s): Undergraduate major in music, MUSC 42, or instructor permission.
Term Typically Offered: Fall, Spring

Individualized practical experience in the composition of music. Students are allowed freedom in the development of a personal music style and the exploration of forms and genres. May be taken for credit four times.

MUSC 108A. Jazz Arranging I. 2 Units
Prerequisite(s): MUSC 3 or instructor permission.
Term Typically Offered: Fall, Spring

Part 1 of a two-semester study of arranging. Provides basic and intermediate tools of creative writing and arranging styles in the jazz idiom as applied to the small jazz ensemble (jazz combo).

MUSC 108B. Jazz Arranging II. 2 Units
Prerequisite(s): MUSC 108A or instructor permission.
Term Typically Offered: Fall, Spring

Part 2 of a two-semester study of arranging. Addresses creative writing in the idiom of the large jazz ensemble (big band). Two major projects are required, performed and recorded. Jazz orchestration is the central focus with special attention to the idiomatic demands from the sections of the big band and how they relate to each other.
MUSC 109. Instrumentation and Arranging. 3 Units
Prerequisite(s): MUSC 11C and MUSC 12C, or placement by exam at the time of university enrollment.
Term Typically Offered: Fall only

This class is designed to introduce students to two topics: instrumentation, or the properties of various instruments and voices, and how to write for them; and orchestration, or how to combine instruments effectively. The approach will be hands-on in nature: students will be called upon to demonstrate their instrument and perform in class, and they will often orchestrate music for their classmates to perform in class.

MUSC 110. Research in Music History. 3 Units
Prerequisite(s): MUSC 10A, 10B, and 10C; MUSC 11C, Music majors or minors only, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Capstone research in special topics of music history. Emphasis on critical reading, writing, and speaking. This course satisfies the writing intensive requirement for music majors.

MUSC 118B. American Popular Music: Jazz History. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A survey of jazz history. Emphasis is placed on the evolution of different jazz styles and trends, through the study of recorded examples and videos by some of the major artists of the 20th century. Discussion of the social conditions surrounding the evolution of jazz will be included.

MUSC 118C. History of Rock Music. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A survey of rock music history. Emphasis is placed on the diverse influences and subsequent development of classic rock musical styles through the study of recorded examples and videos by major artists of the 20th century. Discussion of the social conditions surrounding the evolution of rock music will be included.

MUSC 118D. Hip-Hop in Urban America. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A survey course of hip-hop history. Emphasis is on the musical and cultural evolution of hip-hop through the study of recorded examples, videos, and articles focused on five urban hip-hop centers: New York, Los Angeles, Chicago, and New Orleans.

MUSC 119A. World Music: Asia. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examines music from cultures in Asia. Music is examined as a cultural process, a cultural object and as sound. Musical instruments, forms and styles are discussed along with the roles and functions of music. Although traditional music will be emphasized, contemporary and popular music will also be discussed.

MUSC 119B. World Music: Africa. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examines music from cultures in Africa. Music is examined as a cultural process, a cultural object and as sound. Musical instruments, forms and styles are discussed along with the roles and functions of music. Although traditional music will be emphasized, contemporary and popular music will also be discussed.

MUSC 119C. World Music: Latin America. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examines music from cultures in Latin America. Music is examined as a cultural process, a cultural object and as sound. Musical instruments, forms and styles are discussed along with the roles and functions of music. Although traditional music will be emphasized, contemporary and popular music will also be discussed.

MUSC 125. Advanced Voice for Music Theater. 1 Unit
Prerequisite(s): MUSC 25 or instructor permission and proficiency examination.
Term Typically Offered: Fall, Spring

Designed to give singers advanced training in vocal techniques, interpretation, stage presence, audition preparation, through the utilization of modern musical theater repertoire commensurate with the individual abilities of each class participant.

Note: May be taken twice for credit.

MUSC 127. The American Musical Theater. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Study of Broadway musicals. Examination of the music, lyrics, dramatic structure, and use of dance in selected shows which demonstrate the evolution of the American musical from its inception through contemporary forms. Includes reading, discussion, listening assignments, and attendance at live performances.

MUSC 129. American Society and its Music. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Arts (Area C1)
Term Typically Offered: Fall, Spring

Introduction, through reading, discussion, taped assignments in the Music Department listening center, live music in the classroom, and outside live listening assignments, to all significant manifestations of American music, their roots, and their place in American life. Includes folk, religious, popular, jazz, and fine-art music.
MUSC 130. Pedagogy of Music Theory and Musicianship. 3 Units  
Prerequisite(s): MUSC 11C and MUSC 12C, or placement by exam at the time of university enrollment.  
Term Typically Offered: Fall only  

This course will serve as a laboratory in which you will learn about and try out effective written theory and aural skills pedagogical practices. You will read research by leading music theorists and cognitive scientists, survey textbooks, develop lesson plans and courses, practice-teach your classmates, and tutor Sacramento State students.  

MUSC 132A. Piano: Advanced. 1 Unit  
Prerequisite(s): Approval by applied area committee and instructor permission.  
Term Typically Offered: Fall, Spring  

Individual instruction. Music majors only. May be taken for credit four times.  

MUSC 132B. Piano: Advanced - BM. 1 Unit  
Prerequisite(s): Admission to the BM degree program, approval by applied area committee and instructor permission.  
Term Typically Offered: Fall, Spring  

Individual instruction. Music majors only. May be taken for credit four times.  

MUSC 135A. Harpsichord/Organ: Advanced. 1 Unit  
Prerequisite(s): Approval by applied area committee and instructor permission.  
Term Typically Offered: Fall, Spring  

Individual instruction. Music majors only.  
Note: May be taken for credit four times.  

MUSC 135B. Harpsichord/Organ: Advanced - BM. 1 Unit  
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.  
Term Typically Offered: Fall, Spring  

Individual instruction. Music majors only.  
Note: May be taken for credit four times.  

MUSC 136A. Diction For Singers. 3 Units  
Term Typically Offered: Fall, Spring  

International Phonetic Alphabet and its application to song literature in Latin, Italian, German, French, and English. Designed for advanced voice majors, others admitted by instructor permission.  

MUSC 136B. Vocal Pedagogy. 3 Units  
Term Typically Offered: Fall, Spring  

Study of the methods, problems and practical application of teaching singing. Topics will include the functional unity of the singing voice, pedagogical principles, and current methods/resources in voice training, teaching the beginning singer. Designed for voice majors; others admitted with instructor permission.  

MUSC 136C. Song Literature for Solo Performance and Study. 3 Units  
Prerequisite(s): Junior standing (must have completed 60 units prior to registration).  
Term Typically Offered: Fall, Spring  

A broad survey of classical song literature for solo voice and piano from the Baroque era to the present day. Topics will include the joining of music and poetry in the art song; identifying stylistic elements of classical song and poetry; cultural influences on its development; compositional techniques used by selected European, South American, and North American composers; and the use of art song in teaching. Designed for music majors; others admitted with instructor permission.  

MUSC 137A. Voice: Advanced. 1 Unit  
Prerequisite(s): Approval by applied area committee and instructor permission.  
Term Typically Offered: Fall, Spring  

Individual instruction. Music majors only. May be taken for credit four times.  

MUSC 137B. Voice: Advanced - BM. 1 Unit  
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.  
Term Typically Offered: Fall, Spring  

Individual instruction. Music majors only. May be taken for credit four times.  

MUSC 140. Jazz Theory and Harmony. 2 Units  
Prerequisite(s): MUSC 11C and instructor permission.  
Term Typically Offered: Spring only  

Introduction to the theoretical language of jazz improvisation: rhythms, articulations, style, harmony and melody, forms, simple analysis, chord/scale relationships, ear training and keyboard harmony.  

MUSC 141A. Piano Chamber Music. 2 Units  
Prerequisite(s): MUSC 11C and instructor permission.  
Corequisite(s): MUSC 132B or equivalent.  
Term Typically Offered: Fall, Spring  

Instruction in small ensemble rehearsal performance. Focus given to duos, trios, and quartets of various instrumentation with piano. Includes required performances, listening, reading, and examination.  

MUSC 141B. Piano Chamber Music. 2 Units  
Prerequisite(s): MUSC 141A.  
Corequisite(s): MUSC 132B or equivalent.  
Term Typically Offered: Fall, Spring  

Continued instruction in small ensemble rehearsal performance. Focus on duos, trios, and quartets of various instrumentation with piano. Includes required performances, listening, reading, and examination.  

MUSC 142B. Concert Band. 1 Unit  
Term Typically Offered: Fall, Spring  

Note: May be taken for credit eight times.
MUSC 142C. University Chorale. 1 Unit
Term Typically Offered: Fall, Spring
The University Chorale is a large performing ensemble open to students and experienced volunteers, pending a formal audition. On-campus and off-campus performances as announced each semester. This highly select ensemble performs music from historic periods as well as the most contemporary. This ensemble is often called upon to represent the University in various capacities, including recruitment and performance tours.

MUSC 142M. Marching Band. 2 Units
Term Typically Offered: Fall, Spring
Note: May be taken for credit eight times.

MUSC 142S. Orchestra. 1 Unit
Term Typically Offered: Fall, Spring
Note: May be taken for credit eight times.

MUSC 142T. Opera Theater. 1 Unit
Term Typically Offered: Fall, Spring
Note: May be taken for credit eight times.

MUSC 142U. Choral Union. 1 Unit
Term Typically Offered: Fall, Spring
Choral Union is a large performing ensemble open to students, faculty, or staff pending a brief audition. On-campus and off-campus performances as announced each semester. This ensemble performs music from historic periods as well as the most contemporary. This ensemble might be called upon to represent the University in various capacities.

MUSC 142W. Symphonic Wind Ensemble. 1 Unit
Term Typically Offered: Fall, Spring
Note: May be taken for credit eight times.

MUSC 142X. University Singers. 1 Unit
Term Typically Offered: Fall, Spring
University Singers is a large performing ensemble of treble voices (soprano & alto) and is open to students and experienced volunteers, pending a formal audition. On-campus and off-campus performances as announced each semester. This select ensemble performs music from historic periods as well as the most contemporary. This ensemble is sometimes called upon to represent the University in various capacities, including recruitment and performance tours.

MUSC 143J. Instrumental Jazz Ensemble. 1 Unit
Term Typically Offered: Fall, Spring
Rehearsal and performance of literature written for instrumental jazz ensemble.
Note: May be taken for credit eight times.

MUSC 143V. Vocal Jazz Ensemble. 1 Unit
Term Typically Offered: Fall, Spring
Rehearsal and performance of literature written for vocal jazz ensemble.
Note: May be taken for credit eight times.
MUSC 146. Camerata Capistrano Baroque. 1 Unit
Term Typically Offered: Fall, Spring
A conductor-less ensemble that explores in-depth score study, detailed techniques for stylistic performance, and advanced concertante playing of varied repertoire from the Renaissance to contemporary works in groupings of diverse size. Instrumentalists, keyboardists and singers are invited to experience repertoire not normally encountered in the symphony orchestra or traditional chamber groups. Students will achieve a more comprehensive understanding of musical preparation, ensemble discipline and conductor-less performance, culminating in a final concert for a public audience. Paired with MUSC 246.

Note: Each participant must be an enrolled student or registered volunteer, admitted with Instructor permission. Non-Music majors must purchase a music fee card (Lassen Hall) in order to participate. Registered volunteers will receive a parking pass for rehearsal times after required paperwork is completed. May be taken for credit eight times.

MUSC 150. Jazz Applied: Advanced BM. 2 Units
Prerequisite(s): Approval by jazz area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction in jazz performance.

Note: May be taken for credit four times.

MUSC 150A. Jazz Applied: Advanced Mus Ed Emphasis. 1 Unit
Prerequisite(s): Approval by jazz area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction in jazz performance for students pursuing the Music Education emphasis.

Note: May be taken for credit four times.

MUSC 151. Fundamentals of Conducting. 2 Units
Prerequisite(s): MUSC 2, MUSC 7.
Term Typically Offered: Fall only
Basic techniques and skills of conducting. Areas of concern are all basic patterns in simple, compound and asymmetrical meters, correct baton technique, styles, appropriate left hand usage, tempi, fermatas, and introduction to simple score reading.

MUSC 153. Advanced Choral Conducting. 2 Units
Prerequisite(s): MUSC 151.
Term Typically Offered: Spring only
Choral techniques, including rehearsal procedures, score analysis, choral/orchestral repertoire, and approaches to choral literature from the main history eras.

MUSC 154. Advanced Instrumental Conducting. 2 Units
Prerequisite(s): MUSC 151.
Term Typically Offered: Spring only
Instrumental conducting techniques including refinement of basic conducting skills, rehearsal procedures, score study, and familiarization with and interpretation of instrumental literature.

MUSC 155A. Violin: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 155B. Violin: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 156A. Viola: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 156B. Viola: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 157A. Cello: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 157B. Cello: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 158A. Double Bass: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 158B. Double Bass: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.
MUSC 160. Advanced String Project Pedagogy. 1 Unit
Prerequisite(s): MUSC 60 and instructor consent
Term Typically Offered: Fall, Spring

This course is a step-by-step practicum that prepares students to be lead teachers in the Sacramento State Strings Project. Set in rigorous teaching lab, the course gives students experience in creating lesson plans and teaching in the String Project program. Student teachers learn to apply effective pedagogical methods and techniques to teach fundamental skills to beginning level children and more advanced skills to intermediate-level children.

MUSC 161. Jazz Pedagogy. 2 Units
Term Typically Offered: Spring only

Develops skills in the teaching of jazz in all of its facets and dimensions by a variety of approaches to materials, techniques and philosophies surrounding jazz education. Choosing, editing, rehearsing and programming concert materials will be taught. Also taught are scheduling, music and equipment maintenance, basic administration concerns, and other factors pertinent to operating a jazz program.

MUSC 162. Foundations of Music Education. 2 Units
Prerequisite(s): Sophomore status in music or instructor permission.
Term Typically Offered: Fall only

For majors considering a teaching career. Overview of the history, principal philosophies, current issues, methodologies and materials related to Music Education in kindergarten through twelfth grade. Guided classroom and/or rehearsal observations at the elementary, middle/junior high school and senior high levels. Required for the Music Education major.

MUSC 164. Music in General Education. 2 Units
Prerequisite(s): Sophomore status in music or instructor permission.
Term Typically Offered: Spring only

Curricular and instructional strategies for non-performance music classes in kindergarten through twelfth grade. Teaching techniques for classroom instruments, with emphasis on folk guitar. Required for the Music Education major.

MUSC 165A. Flute: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 165B. Flute: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 166A. Oboe: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 166B. Oboe: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 167A. Bassoon: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 167B. Bassoon: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 168A. Clarinet: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 168B. Clarinet: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 169A. Saxophone: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 169B. Saxophone: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 170A. Percussion: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.
MUSC 170B. Percussion: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 171A. Harp: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 171B. Harp: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 172. Repertoire Class in the Performance Major. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Parallel class taken in conjunction with the performance major to supplement student’s knowledge of the literature, performance practice, pedagogy, and criticism of their chosen instrument or voice. May be taken for credit eight times.

MUSC 173A. Vocal Accompanying. 2 Units
Corequisite(s): MUSC 142.
Prerequisite(s): 4 semesters of MUSC 142.
Term Typically Offered: Fall, Spring
Introductory course to piano accompanying with an emphasis on vocal literature. Includes techniques of sight reading, elementary transposition, and interpretation of lieder from the pianist’s point of view.

MUSC 173B. Vocal Accompanying. 2 Units
Prerequisite(s): MUSC 173A.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring
Continuing study of piano accompanying with an emphasis on art song repertoire. Includes techniques of sight reading, transposition, rehearsing, as well as realization of orchestral reductions. Performances required.

MUSC 174A. Guitar: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 174B. Guitar: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 175. Junior Recital. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, or instructor permission.
Term Typically Offered: Fall, Spring
Formal recital demonstrating the performance abilities of the student. Contents of the program must be approved by instructor in the major performance medium, and permission to enroll approved by the appropriate faculty committee of the performance medium.

MUSC 176. Piano Pedagogy. 2 Units
Corequisite(s): 4 units of MUSC 32B or equivalent; admission to Bachelor of Music program, or instructor permission.
Term Typically Offered: Spring only
Study of the content, methods and problems of teaching the piano with an emphasis on the first years of instruction for both the child and adult beginner.

MUSC 177. Vocal Literature and Materials (Grades 4-12). 3 Units
Corequisite(s): Phase III Student Teaching.
Term Typically Offered: Fall only
Methods and materials for teaching voice and choral music in grades 4-12. Includes introduction to singing, care and development of the student voice, rehearsal techniques, and selection of materials appropriate for use in small and large choral ensembles.

MUSC 178. Instrumental Literature and Materials. 2 Units
Prerequisite(s): 4 units in MUSC 40.
Term Typically Offered: Fall, Spring
Methods and materials for teaching voice and choral music in grades 4-12. Includes introduction to singing, care and development of the student voice, rehearsal techniques, and selection of materials appropriate for use in small and large choral ensembles.

MUSC 179. Vocal Literature and Materials (Grades 4-12). 3 Units
Corequisite(s): Phase III Student Teaching.
Term Typically Offered: Fall only
Methods and materials for teaching voice and choral music in grades 4-12. Includes introduction to singing, care and development of the student voice, rehearsal techniques, and selection of materials appropriate for use in small and large choral ensembles.

MUSC 180. Advanced Counterpoint. 2 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
In this course, students learn contrapuntal techniques used in musical styles from the 16th century to the present. Students analyze extant works from a contrapuntal perspective, complete short composition exercises, and create original pieces in various historical styles. The styles and exercises will be designed to a large extent to fit the needs, preparation, and interest of individual students.

MUSC 183. Digital Synthesis and Sampling. 2 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Course for students with previous electronic music experience who wish to gain more technical background. Topics include various principles of digital synthesis with an emphasis on independent voice construction, principles of sampling synthesizers, computer-based digital synthesis, and advanced MIDI applications.
MUSC 184. Senior Seminar.
Prerequisite(s): Music major with senior standing
Term Typically Offered: Fall, Spring
Weekly seminar for senior students in the B.A. Music concentration. Senior portfolio preparation, resume preparation, and career planning. Credit/No Credit

MUSC 185A. Senior Audition.
Term Typically Offered: Fall, Spring
Informal program presented before a faculty committee and invited guests. It is designed to accommodate students who have special problems in developing their performance to Senior Recital level. Registration must be approved by the applied music faculty, and contents of the audition approved and supervised by instructor in the performing medium.

MUSC 185B. Trumpet: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185C. French Horn: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185D. Baritone: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185E. Senior Recital Music Education.
Term Typically Offered: Fall, Spring
Formal half recital, generally shared with another student. Required of students completing the BM in Music Education degree. Registration must be approved by the applied music faculty and contents of the audition approved and supervised by instructor in the performing medium.

MUSC 185F. Trombone: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185G. Tuba: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185H. Honors Recital.
Term Typically Offered: Fall, Spring
Applied music faculty may designate outstanding performers for an Honors Recital. Contents of the program must be approved and supervised by instructor in the performance medium.

MUSC 185I. Senior Recital Jazz.
Prerequisite(s): Permission by appropriate faculty committee.
Term Typically Offered: Fall, Spring
Formal recital demonstrating the performance abilities of the student in the Jazz Studies concentration. Contents of the program must be approved and supervised by instructor in the performance medium.

MUSC 185J. Trombone: Advanced -- BM.
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185K. Tuba: Advanced -- BM.
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185L. French Horn: Advanced -- BM.
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185M. Baritone: Advanced -- BM.
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185N. Trumpet: Advanced -- BM.
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185O. Harp: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185P. Vibraphone: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185Q. Percussion: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185R. Harpsichord: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185S. Organ: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185T. Piano: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185U. Voice: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185V. Music Theory: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185W. Ethnomusicology: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185X. Composition: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185Y. Conducting: Advanced.
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 185Z. Conducting: Advanced -- BM.
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Music majors only. May be taken for credit four times.

MUSC 186. Senior Portfolio.
Term Typically Offered: Fall, Spring
Senior portfolio preparation, resume preparation, and career planning. Credit/No Credit

MUSC 187. Senior Seminar.
Term Typically Offered: Fall, Spring
Weekly seminar for senior students in the B.A. Music concentration. Senior portfolio preparation, resume preparation, and career planning. Credit/No Credit
MUSC 195. Fieldwork in Music. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observation and work experience with public agencies. Field work is offered for the purpose of giving students orientation in occupational specialties. Supervision is provided by both university instructional staff and cooperating agencies. Each student is required to maintain a record of activities and assignments and to prepare periodic reports. The student must make arrangements with a faculty member for a work program prior to admittance.
Credit/No Credit

MUSC 196E. Extended Techniques for Piano. 1 Unit
Prerequisite(s): Upper Division students only, or Instructor approval.
Term Typically Offered: Spring only – odd years

Upper-division elective will survey unusual and important compositional techniques for piano, beginning with the 17th century and culminating with living composers of our time. Examples of both notation and execution techniques will be studied, demonstrated, and then applied in composition. Specific 20th and 21st century composers whose techniques will be discussed in depth may include Cowell, Ives, Cage, Crumb, Curtis-Smith, Diemer, Pärt, Pärt, Santiago, Bolcom, and Say.

MUSC 197. Music And Business. 3 Units
Term Typically Offered: Fall, Spring

Introduction to career possibilities in the area of music and business. Students will explore and develop directions of interest and opportunity through reading, discussion, lectures, and outside speakers. Individual field projects will provide the opportunity to see at close hand the workings of Sacramento area music businesses of the student’s choice.

MUSC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work. Admission requires the approval of the faculty member under whom the work is to be conducted and of the Department Chair.
Credit/No Credit

MUSC 201. Introduction to Graduate Study. 3 Units
Prerequisite(s): An undergraduate degree with music major or instructor permission.
Term Typically Offered: Fall, Spring

Systematic and historical study of the various disciplines related to music. Prepares the student to do advanced study and research. Required of all MM students in Music. Must be taken the first time scheduled after student is enrolled.
Note: Graduate Writing Intensive

MUSC 202A. Seminar in Music Education. 3 Units
Term Typically Offered: Fall, Spring

Study of current methodology in the development of reliable knowledge in the field of music education. Includes identification and formation of research problems, designing, and strategies.

MUSC 202B. Seminar in Music Education. 3 Units
Term Typically Offered: Fall, Spring

Review of current research trends in music education. Includes review of relevant literature and the definition, design, and justification of a research problem.

MUSC 206. Topics in Music History. 3 Units
Prerequisite(s): Undergraduate major in music or instructor permission.
Term Typically Offered: Fall, Spring

Detailed study of topics in music history and their relation to musical style, performance, reception, and cultural context. Designed to allow narrow focus on the historical contexts of a particular theory, repertoire, performance practice, or critical stance. May be repeated for credit with different topics.

MUSC 207. Topics in Music Analysis. 3 Units
Prerequisite(s): Undergraduate major in music or instructor permission.
Term Typically Offered: Fall, Spring

Detailed study of topics in music analysis and its relation to harmony, rhythm, style, and form. Designed to allow narrow focus on music of a select composer or small group of composers. May be repeated for credit with different topics.

MUSC 208. Topics in Ethnomusicology. 3 Units
Prerequisite(s): Undergraduate major in music or instructor permission.
Term Typically Offered: Fall, Spring

Current practices, methodologies, and scholarly agendas in the field of ethnomusicology including global studies of traditional, classical, folk, and popular musics. Readings from interdisciplinary literature. Students respond in discussion and writing to this scholarly discourse in order to familiarize themselves with theoretical approaches current in the discipline and to practice the spoken and written conventions of the field.

MUSC 210. Composition. 2 Units
Prerequisite(s): Undergraduate composition and instructor permission.
Term Typically Offered: Fall, Spring

Advanced work in composition for students seeking the MM degree with composition option. May be taken for credit twice.

MUSC 211. Graduate Music Theory. 3 Units
Term Typically Offered: Fall, Spring

Comprehensive and intensive overview of the major disciplines of music theory with an emphasis on application of skills. Focus is mainly on tonal practice (part writing, figured bass realization, chromatic harmony, melodic construction, phrase structure, reductive analysis, forms) but also includes discussion of post-tonal music and applicable analytical techniques (extended scalar resources, dodecaphony, set-theory).

MUSC 217A. Choral Conducting Applied Music. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Graduate music majors only. May be taken for credit four times.
Note: Limited to choral conducting students only.

MUSC 217B. Instrumental Conducting Applied Music. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Graduate music majors only. May be taken for credit four times.
Note: Limited to instrumental conducting students only.
MUSC 218A. Choral Conducting Techniques. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Training in technique and repertoire at the graduate level. May be taken for credit four times.
Note: Limited to choral conducting students only.

MUSC 218B. Instrumental Conducting Techniques. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Training in technique and repertoire at the graduate level. May be taken for credit four times.
Note: Limited to instrumental conducting students only.

MUSC 219. Graduate Applied Music. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Classified graduate Music majors and graduate music credential candidates only. May be taken for credit four times.

MUSC 220. Performance Techniques. 1 Unit
Prerequisite(s): Approval by area applied music committee to enter performance option for the MM; instructor permission.
Term Typically Offered: Fall, Spring
Individual instruction. Classified graduate Music majors only. Training in technique and repertoire at the graduate level. May be taken for credit four times.

MUSC 221. Graduate Applied Music for Performer's Certificate. 1 Unit
Prerequisite(s): Performance Certificate Students Only
Term Typically Offered: Fall, Spring
Individual instruction. Training in technique and repertoire at the post-baccalaureate level. May be taken for credit four times.

MUSC 222. Performance Techniques. 1 Unit
Prerequisite(s): Performance Certificate Students Only
Term Typically Offered: Fall, Spring
Individual instruction. Training in applied music performance at the post-baccalaureate level. May be taken for credit four times.

MUSC 242. Advanced Large Performance Ensemble. 1 Unit
Term Typically Offered: Fall, Spring
Study, rehearsal, and public performance of musical repertoire appropriate for the specific ensemble (e.g. orchestra, band, choir, opera, etc.).

MUSC 244. Advanced Chamber Music. 1 Unit
Term Typically Offered: Fall, Spring
Study, rehearsal, and public performance of musical repertoire appropriate for the specific ensemble (e.g. string quartet, wind quintet, etc.).

MUSC 246. Camerata Capistrano Baroque. 1 Unit
Term Typically Offered: Fall, Spring
A conductor-less ensemble that explores in-depth score study, detailed techniques for stylistic performance, and advanced concertante playing of repertoire from the Renaissance to newly composed works. In groupings of diverse size. Instrumentalists, keyboardists and singers are invited to experience repertoire not normally encountered in the symphony orchestra or traditional chamber groups. Students will ultimately achieve a more comprehensive understanding of musical preparation, ensemble discipline and conductor-less performance, culminating in a final concert for a public audience. Paired with MUSC 146.
Note: This course is paired with MUSC 146. Students who have received credit for MUSC 146 as an undergraduate student at CSU Sacramento will not receive credit for MUSC 246. Each participant must be an enrolled student or registered volunteer, admitted with Instructor permission. Non-Music majors must purchase a music fee card (Lassen Hall) in order to participate. Registered volunteers will receive a parking pass for rehearsal times after required paperwork is completed. May be taken for credit four times.

MUSC 285. Graduate Recital. 2 Units
Prerequisite(s): Approval by the student’s recital committee, consisting of student’s primary instructor in the area of concentration and two additional, qualified faculty members, preferably from the student’s area of concentration, chosen by the primary instructor in consultation with the student.
Term Typically Offered: Fall, Spring
Public recital of approximately fifty minutes of music demonstrating the student’s skill, artistry, and maturity in their degree concentration. The content and performance (MM in Conducting and Performance) of the recital, or the quality of the content (MM in Composition, Performer’s Certificate) of the recital, must be evaluated by a committee consisting of the student’s primary applied instructor and two additional, qualified faculty members, preferably from the student's area of concentration.

MUSC 295. Fieldwork in Music. 1 - 3 Units
Term Typically Offered: Fall, Spring
Directed observation and work experience. Fieldwork is offered for the purpose of giving students orientation in occupational specialties.
Supervision is provided by both the instructional staff of the university and cooperating agencies. Each student is required to maintain a record of activities and assignments and to prepare periodic reports. The student must make arrangements with a faculty member for a work program prior to admittance to the course.
Credit/No Credit

MUSC 297. Comprehensive Examination. 1 Unit
Prerequisite(s): MUSC 285 and Advancement to Candidacy
Term Typically Offered: Fall, Spring
Comprehensive oral examination covering student's major field of study. Credit / No Credit.
Credit/No Credit
MUSC 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the work is to be conducted and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work.
Credit/No Credit

MUSC 500. Culminating Experience. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission from the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of thesis or project approved for the Master's degree. Three options are available:

Natural Sciences and Mathematics (NSM)

NSM 12A. Peer-Assisted Learning for CHEM 4. 1 Unit
Corequisite(s): CHEM 4
Term Typically Offered: Fall, Spring

Students concurrently enrolled in CHEM 4 and under the guidance of a trained student leader (PAL leader) work collaboratively through problem sets designed by the CHEM 4 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in CHEM 4.
Note: May be repeated for credit
Credit/No Credit

NSM 12B. Peer-Assisted Learning for MATH 29. 1 Unit
Corequisite(s): MATH 29
Term Typically Offered: Fall, Spring

Students concurrently enrolled in MATH 29 and under the guidance of a trained student leader (PAL leader) work collaboratively through problem sets designed by the MATH 29 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in MATH 29.
Note: May be repeated for credit
Credit/No Credit

NSM 12C. Peer-Assisted Learning for CHEM 1A. 1 Unit
Corequisite(s): CHEM 1A
Term Typically Offered: Fall, Spring

Students concurrently enrolled in CHEM 1A and under the guidance of a trained student leader (PAL leader) work collaboratively through problem sets designed by the CHEM 1A instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in CHEM 1A.
Note: May be repeated for credit
Credit/No Credit

NSM 12D. Peer-Assisted Learning for CHEM 1B. 1 Unit
Corequisite(s): CHEM 1B
Term Typically Offered: Fall, Spring

Students concurrently enrolled in CHEM 1B and under the guidance of a trained student leader (PAL leader) work collaboratively through problem sets designed by the CHEM 1B instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in CHEM 1B.
Note: May be repeated for credit
Credit/No Credit

NSM 12E. Peer-Assisted Learning for MATH 30. 1 Unit
Corequisite(s): MATH 30
Term Typically Offered: Fall, Spring

Students concurrently enrolled in MATH 30 and under the guidance of a trained student leader (PAL leader) work collaboratively through problem sets designed by the MATH 30 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in MATH 30.
Note: May be repeated for credit
Credit/No Credit

NSM 12F. Peer-Assisted Learning MATH 31. 1 Unit
Corequisite(s): Enrollment in MATH 31
Term Typically Offered: Fall, Spring

NSM 12F Peer-Assisted Learning MATH 31. Discussion, 2 hours. Students concurrently enrolled in MATH 31 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a MATH 31 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in MATH 31.
Credit/No Credit

NSM 12G. Peer-Assisted Learning PHYS 11A. 1 Unit
Corequisite(s): Enrollment in PHYS 11A
Term Typically Offered: Fall, Spring

NSM 12G Peer-Assisted Learning Physics 11A. Discussion, 2 hours. Students concurrently enrolled in PHYS 11A and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a PHYS 11A instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in MATH 31.
Credit/No Credit

NSM 12H. Peer-Assisted Learning BIO 121. 1 Unit
Corequisite(s): Enrollment in BIO 121
Term Typically Offered: Fall, Spring

NSM 12F Peer-Assisted Learning BIO 121. Discussion, 2 hours. Students concurrently enrolled in BIO 121 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a BIO 121 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in BIO 121.
Credit/No Credit
NSM 12I. Peer-Assisted Learning BIO 22.
Corequisite(s): Enrollment in BIO 22
Term Typically Offered: Fall, Spring

NSM 12I Peer-Assisted Learning BIO 22. Discussion, 2 hours. Students concurrently enrolled in BIO 22 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by the BIO 22 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in BIO 22. Credit/No Credit

NSM 12J. Peer-Assisted Learning Math 32.
Corequisite(s): MATH 32

1 Unit

Students concurrently enrolled in MATH 32 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a MATH 32 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in MATH 32. Credit/No Credit

NSM 12K. Peer-Assisted Learning BIO 139.
Corequisite(s): BIO 139

1 Unit

Students concurrently enrolled in BIO 139 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a BIO 139 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in BIO 139. Credit/No Credit

NSM 12L. Peer-Assisted Learning BIO 184.
Corequisite(s): BIO 184

1 Unit

Students concurrently enrolled in BIO 184 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a BIO 184 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in BIO 184. Credit/No Credit

NSM 12M. Peer-Assisted Learning CHEM 5.
Corequisite(s): CHEM 5

1 Unit

Students concurrently enrolled in CHEM 5 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a CHEM 5 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in CHEM 5. Credit/No Credit

NSM 12N. Peer-Assisted Learning CHEM 24.
Corequisite(s): CHEM 24

1 Unit

Students concurrently enrolled in CHEM 24 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a CHEM 24 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in CHEM 24. Credit/No Credit

NSM 12P. Peer-Assisted Learning STAT 1.
Corequisite(s): STAT 1

1 Unit

Term Typically Offered: Fall, Spring

NSM 12P Peer-Assisted Learning STAT 1. Discussion, 2 hours. Students concurrently enrolled in STAT 1 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a STAT 1 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in STAT 1. Credit/No Credit

NSM 12Q. Peer-Assisted Learning STAT 50.
Corequisite(s): STAT 50

1 Unit

Term Typically Offered: Fall, Spring

NSM 12Q Peer-Assisted Learning STAT 50. Discussion, 2 hours. Students concurrently enrolled in STAT 50 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a STAT 50 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in STAT 50. Credit/No Credit

NSM 12R. Peer-Assisted Learning MATH 12.
Corequisite(s): MATH 12

1 Unit

Term Typically Offered: Fall, Spring

NSM 12R Peer-Assisted Learning MATH12. Discussion, 2 hours. Students concurrently enrolled in MATH 12 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a MATH 12 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in MATH 12. Credit/No Credit

NSM 12S. Peer-Assisted Learning CHEM 124.
Corequisite(s): CHEM 124

1 Unit

Term Typically Offered: Fall, Spring

NSM 12S Peer-Assisted Learning CHEM 124. Discussion, 2 hours. Students concurrently enrolled in CHEM 124 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a CHEM 124 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in CHEM 124. Credit/No Credit

NSM 12T. Peer-Assisted Learning PHYS 5A.
Corequisite(s): PHYS 5A

1 Unit

Term Typically Offered: Fall, Spring

NSM 12T Peer-Assisted Learning PHYS 5A. Discussion, 2 hours. Students concurrently enrolled in PHYS 5A and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a PHYS 5A instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in PHYS 5A. Credit/No Credit

Corequisite(s): STAT 50

1 Unit

Term Typically Offered: Fall, Spring

NSM 12U Peer-Assisted Learning Bio 39. Discussion, 2 hours. Students concurrently enrolled in Bio 39 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a Bio 39 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in Bio 39. Credit/No Credit

NSM 12V. Peer-Assisted Learning BIO 25.
Corequisite(s): BIO 25

1 Unit

Term Typically Offered: Fall, Spring

NSM 12V Peer-Assisted Learning BIO 25. Discussion, 2 hours. Students concurrently enrolled in BIO 25 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a BIO 25 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in BIO 25. Credit/No Credit
Field trip(s) may be required.

NSM 86A. STEM Learning Practices for Future Teachers. 3 Units
Prerequisite(s): Three years of high school mathematics and three years of high school science preferred.
Term Typically Offered: Fall only

The first course in a two-course pairing. The course is for freshmen intending to be elementary/junior high school teachers with special skills and knowledge in science curriculum and science pedagogy for the K-9 grade span. Students will learn course content through activities, tasks, and assignments that require them to expand their knowledge of science and mathematics concepts and skills as well as synthesize them in relation to real-world issues and problems.

Field trip(s) may be required.

NSM 86B. Advanced STEM Learning Practices for Future Teachers. 3 Units
Prerequisite(s): NSM 86A
Term Typically Offered: Spring only

The second course in a two-course pairing, intended for future elementary/junior high school teachers especially interested in science. This course extends the learning of mathematics and science content knowledge and disciplinary practices from NSM 86A by integrating engineering content and the engineering design cycle. Students will learn course content through activities, tasks, and assignments that require them to synthesize and apply their knowledge of science, engineering, and mathematics concepts and skills to complex and inter-disciplinary real-world issues and problems.

Note: Field trip. Observations in local public K-8 schools.

Field trip(s) may be required.

NSM 88. Exploring Health Careers. 1 Unit
Term Typically Offered: Fall, Spring

Designed for pre-professional students, this self exploration course will assist students in determining whether a career in the health professions is suitable to their interest, skills, and values. In addition to exploring the traditional health professions medicine, pharmacy, etc., students will have opportunity to explore alternative health professions and career options. This active learning course will include lectures, discussions, individual and group projects, informational interviews, and guest speakers. One hour per week.

Credit/No Credit

NSM 90. Biomedical Research Seminars. 1 Unit
Term Typically Offered: Fall, Spring

Professional scientists, graduate students and senior undergraduate researchers in biomedical sciences will present their research. Students will develop critical skills to become active participants in dialogs with seminar presenters. Students will explore and cultivate their interest towards biomedical research careers and compile a portfolio to archive their course achievements. During their senior year, undergraduate researchers will also deliver presentations of their own work.

Credit/No Credit

NSM 100B. Transfer Seminar II. 1 Unit
Prerequisite(s): second-semester transfer student

Designed for second-semester transfer students in the College of NSM. Series of at least 10 seminars related to campus and career-based opportunities, integration with peers, and promotion of academic mindset.

Credit/No Credit

NSM 175. Summer Undergraduate Research Experience Seminar. 1 Unit
Term Typically Offered: Summer only

This seminar supports students who have received a Summer Undergraduate Research Experience Award through the College of Natural Sciences and Mathematics. Seminar topics will include laboratory safety, research ethics and dissemination of research results. These sessions will prepare students to disseminate their research at the NSM Student Research Symposium.

Credit/No Credit
NSM 190. Senior Thesis Seminar. 3 Units
Term Typically Offered: Spring only

Develops the ability of undergraduate researchers to search, interpret, and add to the biomedical research literature. Students develop a senior thesis or proposal and an oral presentation. Includes analysis of primary research articles, peer review of student writing samples, and presentation of scientific information. These activities improve students’ understanding of how scientific questions are developed, posed, and answered through proposals and dissemination of research results.

NSM 193. Emerging Leaders in STEM. 1 Unit
Prerequisite(s): Sophomore standing (must have completed 30 units prior to registration).
Term Typically Offered: Fall, Spring

This course focuses on in-depth leadership training for professional STEM success. Students will explore aspects of effective leadership, uncover their own leadership capacity and skills, and enhance their leadership prowess by studying and applying recognized best practices. Topics include setting personal and professional goals, becoming a productive team member, how to step into a leadership role, how to motivate team members, and how to develop productive work-flow processes.

Cross listed: ENGR 193.

NSM 195A. STEM Pedagogical Practices. 1 Unit
Prerequisite(s): All lower division coursework for a NSM major must be completed.
Term Typically Offered: Fall, Spring

STEM Pedagogical Practices. Students will be introduced to research-supported pedagogical practices appropriate to Technology, Engineering, and Mathematics (STEM) instruction in secondary schools. Topics include: the Common Core Math Standards, the New Generation Science Standards (NGSS), classroom questioning strategies, active learning strategies, and different forms of assessment.

Note: NSM 195A will provide pedagogical context to support students in their field experience (NSM 195B).

Credit/No Credit

NSM 195B. Field Experience in Secondary STEM Classrooms. 1 Unit
Prerequisite(s): NSM 195A. NSM 195A may be taken concurrently.
Term Typically Offered: Fall, Spring

Field Experience in Secondary STEM Classrooms. Orientation to high quality Science, Technology, Engineering, and Mathematics (STEM) instruction in secondary schools. Coursework is divided into two components: field experience in either middle or high-school STEM classroom; and weekly meetings to reflect on field experiences.

Credit/No Credit

NSM 196. Conceptual Understanding of Science for Teachers. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Intensive examination of selected topics in science for teachers. The goal is to develop a deep conceptual understanding of the science under consideration, knowledge of common misconceptions about the concept, and effective ways to guide student learning of the selected topic.

Cross Listed: NSM 296; only one may be counted for credit.

Credit/No Credit

NSM 196A. Science Topics for Middle School. 1 - 3 Units
Prerequisite(s): Multiple Subject Credential and instructor permission
Term Typically Offered: Fall, Spring

Intensive examination of selected topics in science for teachers pursuing subject matter knowledge needed for a general science credential. The goal is to deepen and broaden students’ conceptual and factual knowledge base for selected topics. Course will involve hands-on tasks designed to enhance conceptual understanding as well as lectures, small group work and independent tasks necessary for learning the subject matter.

NSM 197. Seminar in Peer-Assisted Learning. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): Acceptance as PAL facilitator
Term Typically Offered: Fall, Spring

Specific classroom training for advanced students who are concurrently serving as PAL facilitators within NSM. Action research on learning theory as applied to classroom settings with culminating research presentation.

NSM 197B. Advanced Seminar in Peer-Assisted Learning. 2 Units
Prerequisite(s): NSM 197
Term Typically Offered: Fall, Spring

Specific classroom training for advanced students who are concurrently serving as PAL facilitators within NSM. Action research on learning theory as applied to classroom settings with culminating research presentation.

Instructor permission required for enrollment. Lecture & Discussion, 2 hours.

NSM 197C. Seminar for Lead & Supervisory Facilitators. 2 Units
Prerequisite(s): NSM 197A or NSM 197B
Specific classroom training for advanced students who are concurrently serving Lead or Supervisory PAL facilitators within NSM. Leadership and assessment of program effectiveness with a culminating research presentation. Instructor permission required for enrollment.

NSM 198. Co-curricular Activities in Natural Sciences and Mathematics. 1 - 3 Units
Prerequisite(s): Admission to this course requires approval of instructor.
Term Typically Offered: Fall, Spring

Earned credit by participating as tutor or teacher assistant in public schools, volunteering as an instructor or tutor in K-12 courses or programs offered by other community organizations, or engagement in community education programs, which are based in one or more disciplines in NSM. Participation requires three to twelve hours weekly.

Note: May be taken more than once but no more than three units may be applied toward the baccalaureate degree.

Credit/No Credit

NSM 296. Conceptual Understanding of Science for Teachers. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Intensive examination of selected topics in science for teachers. The goal is to develop a deep conceptual understanding of the science under consideration, knowledge of common misconceptions about the concept, and effective ways to guide student learning of the selected topic.

Note: May be repeated for credit. Cross listed: NSM 196.

Credit/No Credit
Nursing (NURS)

NURS 9. Reasoning and Critical Thinking on Health Topics. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring, Summer

Provides students with an introduction to critical thinking and reasoning in evaluating societal issues related to health. Students will examine sources of health information, including mass and social media to critically examine fact versus fiction. Emphasizes logical steps in problem-solving, decision-making, reasoning, and the construction of arguments about health problems and promotion. The study of critical thinking will be supplemented with readings, discussions, collaboration, presentations, dialogues, and written assignments around the topic of health.

NURS 10. Health Care: Issues and Delivery Systems. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Explores the relationships between social, political and economic systems, and the health care and delivery systems currently operational in the U.S. today. Provides a format to debate current biomedical issues and explores cross-cultural health practices. Lecture three hours.

NURS 14. Pharmacology. 2 Units
Prerequisite(s): Entry level physiology course, such as BIO 25 or BIO 26
Term Typically Offered: Fall, Spring

Basic principles of pharmacology with a focus on pharmacokinetics, pharmacodynamics and related therapeutic implications for major drug categories. May be taken by pre-nursing or non-nursing students. Lecture two hours.

NURS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

A first-year seminar intended to provide students with an introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. This course is designed to help students develop academic success strategies, and to improve information literacy, intercultural competence, and integrative thinking. The seminar also provides students with the opportunity to interact with fellow students, and seminar faculty to build a community of academic and personal support.

NURS 53. Paramedic Skills Part 1. 2 Units
Prerequisite(s): Admission to the Paramedic program
Corequisite(s): NURS 51
Term Typically Offered: Fall, Spring

Part 1 of foundational ALS skills content for pre-hospital care in the Emergency Medical System (EMS). Participants apply theoretical knowledge of Advanced Life Support in skills lab and simulated patient care experiences. Students will practice assessment and intervention of psychomotor skills for Advanced Life Support (ALS), Advanced Cardiac Life Support (ACLS), Pediatric Advanced Cardiac Life Support (PALS) and International Trauma Life Support (ITLS).

NURS 54. Paramedic Skills Part 2. 3 Units
Prerequisite(s): Admission to the Paramedic program, NURS 51 & NURS 53
Corequisite(s): NURS 52
Term Typically Offered: Fall, Spring

Part 2 of foundational ALS skills content for pre-hospital care in the Emergency Medical System (EMS). Participants apply theoretical knowledge of Advanced Life Support in skills lab and simulated patient care experiences. This is the skills section of NURS 52. Students will practice assessment and intervention of psychomotor skills for Advanced Life Support (ALS), Advanced Cardiac Life Support (ACLS), Pediatric Advanced Cardiac Life Support (PALS) and International Trauma Life Support (ITLS).

NURS 111. Introduction to Professional Nursing. 3 Units
Prerequisite(s): Admission to Nursing Program or instructor permission
Term Typically Offered: Fall, Spring

Provides a conceptual base for the practice of professional nursing. The changing and expanding roles of the professional nurse in the health care delivery system are explored, with an emphasis on professional behavior, ethics, evidence-based practice and informatics. Lecture three hours.

Note: may be repeated for credit

NURS 112. Nursing Care Of Adults. 5 Units
Prerequisite(s): Admission to the Nursing Program
Corequisite(s): NURS 111, NURS 113
Term Typically Offered: Fall, Spring

Introduction and application of nursing concepts in meeting health needs of adults. Emphasis is placed on health promotion and disease management across the adult life span. Lecture three hours; laboratory six-eight hours.

Note: This course require safety training and personal protective equipment (PPE).

NURS 113. Professional Nursing Communication, Assessment and Skills. 4 Units
Prerequisite(s): Admission to nursing program
Corequisite(s): NURS 111 and NURS 112
Term Typically Offered: Fall, Spring

Apply nursing practice concepts in assessment, skills, and professional communication in the context of laboratory scenarios and field experiences across the lifespan. Laboratory twelve hours.

NURS 119. Mental Health Nursing for the LVN 30-Unit Option. 4 Units
Prerequisite(s): Microbiology with a lab, Physiology with a lab, and California licensure as a Vocational Nurse.
Corequisite(s): NURS 123.
Term Typically Offered: Fall, Spring

Theoretical basis for the nursing care of individuals who require nursing intervention to achieve and maintain mental health through adaptive processes. The course includes a supervised practicum which incorporates therapeutic modalities. A variety of psychodynamic theories related to anxiety, interpersonal relationships, crisis intervention, and group process are discussed.
NURS 120. Nursing Application of Research and Critical Analysis.  
Prerequisite(s): NURS 111, NURS 112, NURS 113 or instructor permission.  
Term Typically Offered: Fall, Spring  
Evaluation and application of research to nursing practice. Emphasis is placed on application of evidence to improve quality and safety in healthcare and advance nursing practice. Develop an understanding of the humanities and diverse cultures through the lens of nursing practice. Application of a critical framework of sociocultural, historical, and economic perspectives to analyze scholarly inquiry of health and healthcare.

NURS 123. Nursing Families in Complex Illness.  
Prerequisite(s): NURS 111, NURS 112 and NURS 113; or instructor permission.  
Term Typically Offered: Fall, Spring  
Provides students with the opportunity to learn and apply nursing concepts through the care of individuals and families experiencing complex illness across the adult lifespan. The focus is on skill development and the synthesis of data from multiple sources to formulate nursing interventions. Lecture three hours; laboratory six-eight hours.  
Note: This course require safety training and personal protective equipment (PPE).

NURS 129. Mental Health Nursing.  
Prerequisite(s): NURS 111, NURS 112 and NURS 113; or instructor permission.  
Term Typically Offered: Fall, Spring  
Provides an overview of multidimensional factors, perspectives, and approaches associated with mental health across the lifespan. Mental health concepts and interventions are applied across multiple settings. Lecture three hours; laboratory six-eight hours.  
Note: This course require safety training.

NURS 130. Leadership and Management for the LVN to RN.  
Prerequisite(s): Microbiology with a lab; Physiology with a lab; NURS 119 and NURS 123  
Corequisite(s): NURS 137 and NURS 138  
Term Typically Offered: Fall, Spring  
This course is designed to present leadership and management skills for the Licensed Vocational Nurse transitioning to the Registered Nurse role. The principle and processes of administration, management, and supervision will be discussed within an organizational framework. Lecture two hours.

NURS 136. Nursing Laboratory for the Childbearing Family.  
Prerequisite(s): NURS 120, NURS 123 and NURS 129, or instructor permission.  
Corequisite(s): NURS 137  
Term Typically Offered: Fall, Spring  
Application of skills and assessment in the care of the childbearing family and women experiencing reproductive health changes across the lifespan. Lecture three hours; laboratory six-eight hours.  
Note: This course require safety training and personal protective equipment (PPE).

NURS 137. Nursing the Childbearing Family.  
Prerequisite(s): NURS 120, NURS 123, NURS 129 or instructor permission.  
Corequisite(s): NURS 136  
Term Typically Offered: Fall, Spring  
Application of nursing concepts in the care of the childbearing family and women experiencing reproductive health changes across the lifespan. Lecture three hours; laboratory six-eight hours.  
Note: This course require safety training and personal protective equipment (PPE).

NURS 138. Nursing the Childrearing Family.  
Prerequisite(s): NURS 120, NURS 123, NURS 129, or instructor permission.  
Corequisite(s): NURS 139  
Term Typically Offered: Fall, Spring  
Introduction and application of nursing concepts in meeting health needs of the child from birth through adolescence. Emphasis is placed on health promotion and disease management within the context of the family and applied across multiple settings. Lecture three hours; laboratory six-eight hours.  
Note: This course require safety training.

NURS 139. Nursing Laboratory for the Childrearing Family.  
Prerequisite(s): NURS 120, NURS 123, NURS 129, or instructor permission.  
Corequisite(s): NURS 138  
Term Typically Offered: Fall, Spring  
Acquisition of knowledge and practice using tools and techniques for assessing the child and the family in a variety of settings. Laboratory three hours.  
Note: May be repeated for credit  
Credit/No Credit

NURS 143. Leadership and Management in Nursing Practice.  
Prerequisite(s): NURS 136, NURS 137, NURS 138, and NURS 139, or instructor permission.  
Term Typically Offered: Fall, Spring  
Integration of leadership and management principles to promote health across the lifespan and care settings. Application of leadership and management principles in the examination of organizational structures, processes, and approaches to quality and safety concepts in health care systems and practice environments. Emphasis will be placed on career development and transition to professional practice.  
Note: May be repeated for credit. Lecture three hours.
NURS 144. Community Health Nursing. 5 Units
Prerequisite(s): NURS 136, NURS 137, NURS 138, and NURS 139, or instructor permission.
Term Typically Offered: Fall, Spring

Contemporary role of the community health nurse is presented within a public health framework, emphasizing the concept of community as client. Presents nursing interventions related to groups and aggregates identified as high risk for the development of health problems. Clinical experience is provided across community settings. Lecture and clinical hours.

NURS 145. Clinical Leadership and Professional Role Development. 6 Units
Prerequisite(s): NURS 136, NURS 137, NURS 138, NURS 139 or instructor permission.
Corequisite(s): NURS 144.
Term Typically Offered: Fall, Spring

The purpose of this culminating senior practicum is to facilitate the transition of the nursing student into the role of a professional BSN graduate nurse. The course will integrate the theoretical and clinical nursing concepts acquired throughout the curriculum into a precepted senior practicum. Students will apply principles of clinical nursing, nursing management and nursing leadership in a selected clinical setting. Credit/No Credit

NURS 146. Women's Health. 3 Units
Term Typically Offered: Fall, Spring

Designed for people seeking knowledge about women's health, women's health risks, and the delivery of traditional and non-traditional medical interventions for the maintenance of health and management of illness. Covers the physiological and psychological components of women's health. The leading acute and chronic illnesses which affect women are introduced. Discussions include: means of sustaining a wellness lifestyle; identification, management and consultation for acute and chronic illness; normal physiological life changes and adaptations to aging; mind/body connection in the control of health and illness; pharmacology and drug therapy for women; health management for infants and children; access and control of care for women in traditional and non-traditional health settings; and research in women's health. Lecture-discussion three hours.

NURS 147. Transitions: The Baccalaureate Nurse. 6 Units
Prerequisite(s): Acceptance into the RN to BSN Program or instructor permission.
Term Typically Offered: Fall, Spring

This course provides an overview of nursing research and application to practice. Students will identify components of evidence-based practice and develop skills in critiquing research and in professional writing.

NURS 148. Transitional Concepts: The Baccalaureate Nurse. 6 Units
Prerequisite(s): NURS 170, may be taken concurrently.
Term Typically Offered: Fall, Spring

This course expands students' knowledge of theories, concepts, and social issues which have implications for nursing practice. Assignments and experiences are designed to transition the RN to the baccalaureate level of proficiency.

NURS 149. Research for Evidence-Based Nursing Practice. 3 Units
Term Typically Offered: Fall, Spring

This course expands students' knowledge of theories, concepts, and social issues which have implications for health across the lifespan. Assignments and experiences are designed to transition the RN to the baccalaureate level of proficiency.
NURS 173. Theoretical Foundations for Leadership and Management. 6 Units
Prerequisite(s): NURS 170, may be taken concurrently.
Term Typically Offered: Fall, Spring

This course provides the theoretical foundations for leadership and management across multiple settings. Theories related to the principles and processes of leadership and management will be applied to select practice experiences.

NURS 173A. Theoretical Foundations for Leadership. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently
This course provides the theoretical foundations for leadership across multiple settings. Theories related to the principles and processes of leadership will be applied to select practice experiences.

NURS 173B. Theoretical Foundations for Management. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently
This course provides the theoretical foundations for management across multiple settings. Theories related to the principles and processes of management will be applied to select practice experiences.

NURS 174. Community Health Nursing: Concepts and Practice. 4 Units
Prerequisite(s): NURS 170, may be taken concurrently.
Term Typically Offered: Fall, Spring

This course presents the role of the community health nurse within a public health framework and examines public health systems, policies, and sociocultural factors that shape the health of individuals, groups, and communities. Students will be introduced to principles of population health, epidemiology, disease prevention, and health promotion, to plan community health nursing interventions.

NURS 174C. Community Health Nursing: Clinical Elective. 2 Units
Prerequisite(s): NURS 170, NURS 174, both may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

In this course students will integrate and apply knowledge of population-based nursing and evaluate the role of the community health nurse in various systems. Students will provide care to individuals, families, or communities within a public health framework. This course meets the California BRN clinical requirements for the Public Health Nurse Certificate.

Note: NURS 174C is an elective course that is only required for students wishing to apply for the California Board of Registered Nursing Public Health Nurse Certificate; students not planning to apply for a Public Health Nurse Certificate must petition for an exemption from this clinical course; students who are granted exemption for NURS 174C will only complete 44 units.

NURS 178. Culminating Project. 3 Units
Prerequisite(s): Completion of 19 units in the program or instructor permission.
Term Typically Offered: Fall, Spring

Students will apply leadership and management principles within a community to determine a defined need or issue, identify goals to meet or solve the issue, and complete the culminating project based on previous course work.

NURS 179. Professional Communication and Reasoning Development. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently; and either department permission or GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

This hybrid course is designed to expand communication and leadership skills among RN to BSN students in their professional practice. Students will develop an understanding of the humanities and diverse cultures through the lens of nursing practice. Specifically, students will reflect on how culture and experience determines the human condition which is reflected in their animating ideas and values towards health and healthcare.

NURS 180. Transition to Graduate Nursing Education through Writing. 2 Units
Prerequisite(s): Acceptance into the Advanced Nursing Bridge pathway or department permission.
Term Typically Offered: Spring, Summer

This course provides an introduction to the role of the nurse leader by exploring theoretical and ethical concepts, professional communication, and evidence-based practice. Students will undertake critical analysis of nursing practice and healthcare systems with a focus on professional role development.

NURS 181. Research as the Foundation for Evidence-Based Nursing Practice. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

This course provides students with a clear understanding of the interrelationship between research, theory, and evidence-based nursing practice. Interpretation of quantitative and qualitative research findings to determine statistical and clinical significance. Application of research and epidemiological concepts to improve patient and population health outcomes.

NURS 190A. Work Study in Nursing. 1 - 12 Units
Prerequisite(s): NURS 120, NURS 123 and NURS129; School of Nursing faculty recommendation; Instructor permission; Minimum 2.5 GPA
Corequisite(s): Enrollment in undergraduate nursing program
Term Typically Offered: Fall, Spring

Nursing students participate in clinical nursing experiences that reflect the realities of the healthcare environment and have opportunity to master learned skills.

Note: May be repeated for credit
Credit/No Credit

NURS 195. Field Study. 1 - 6 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Guided study and experience in a specified nursing area.
Credit/No Credit
NURS 199. Special Problems. 2 Units
Term Typically Offered: Fall, Spring
Individual projects and directed reading for students who are competent to assume independent work. Admission to this course requires approval of faculty member under whom the independent work is to be conducted. Credit/No Credit

NURS 209. Advanced Role Development in Nursing. 3 Units
Prerequisite(s): Admission to Graduate Program.
Term Typically Offered: Fall, Spring
Students will explore emerging issues in healthcare and consider how these issues shape their practice. Through examination of current issues and challenges confronting the nursing profession, analysis of the literature, examination of personal values, rights, and obligations, and the application of ethical decision-making processes, students’ ability to engage in ethical discussions will be enhanced, as will their ability to provide professional leadership.
Note: Satisfies the GWAR requirement.

NURS 210. Research as the Foundation for Advanced Nursing. 3 Units
Prerequisite(s): Admission to the graduate program for nursing
Term Typically Offered: Fall, Spring
Participants will explore nursing research as the foundation for clinical and organizational decision making. Content will include understanding key elements of evidence-based practice, developing skills to access data bases in nursing and healthcare, evaluation of evidence in nursing including published nursing research, problem identification within the practice setting, and incorporation of evidence in initiating change and improving clinical practice.

NURS 213. Seminar in Organizational and Systems Leadership. 3 Units
Prerequisite(s): NURS 209 and NURS 210, and 21 units of graduate coursework.
Term Typically Offered: Fall, Spring
This course requires that students operationalize knowledge, skills, and dispositions acquired in previous courses. Students will identify contemporary healthcare issues and apply graduate core competencies to guide nursing praxis in the planning, implementation and evaluation of quality healthcare for individuals, families, groups and communities.

NURS 213C. Seminar in Specialized Nursing Processes: School Nursing I. 4 Units
Prerequisite(s): Admission to School Nurse Credential Program.
Term Typically Offered: Fall, Spring
Provision and application of concepts needed for nursing practice in the schools. Focuses on the three major competencies of school nursing practice: providing health and wellness services, direct client care services for school age children (pre-k through age 22), and professional management of school nursing services. Emphasis is on the foundations of school nursing practice, legal and ethical issues, special education services, and management of episodic illness and chronic health conditions.

NURS 213D. Seminar in Specialized Nursing Processes: School Nursing II. 4 Units
Prerequisite(s): NURS 213C.
Term Typically Offered: Fall, Spring
Provision and application of concepts needed for nursing practice in the schools. Focuses on the three major competencies of school nursing practice: providing health and wellness services, direct client care services for school age children (pre-k through age 22), and health service program coordination and management. Emphasis is on ethical issues and federal laws addressing education for students with disabilities, health promotion programs, issues of adolescent health, and behavior assessment and management including considerations for students receiving special education services.

NURS 214. Educational Program Development in Nursing. 3 Units
Prerequisite(s): NURS 209 and NURS 210 or instructor’s permission
Term Typically Offered: Fall, Spring
Introduction to curriculum development and instructional design concepts in preparation for the role of educator in an educational institution or health care setting. Emphasis will be on instructional design, instructional strategies, and measurement of learner outcomes. Lecture three hours.
Note: FOCUS alternates between K-12 and higher education.

NURS 214C. Educational Program Development in Nursing II. 3 Units
Prerequisite(s): NURS 214B.
Corequisite(s): NURS 294C.
Term Typically Offered: Fall, Spring
Introduction to curriculum development and instructional design concepts in preparation for the role of educator in an educational institution or health care setting. Continues emphasis on instructional design, related to curriculum development and implementation, and to program evaluation. Lecture three hours.
Note: FOCUS alternates between K-12 and higher education.

NURS 215. Community Health Services and Policy. 3 Units
Prerequisite(s): NURS 209 and NURS 210, or instructor’s permission
Term Typically Offered: Fall, Spring
Examines issues of health policy, financing, and the organization and delivery of health services at the local, national, and global levels. Health promotion will be defined and the influence of community on the individual, group, and family’s health will be explored. Epidemiological data bases will be identified. These data bases will be critiqued and used to develop a health promotion program.

NURS 216. Vision and Scoliosis Screening. 1 Unit
Term Typically Offered: Fall, Spring
Theory and practice of detecting idiopathic scoliosis, and visual disorders resulting from inadequate refraction, ocular mal-alignment, and color deficiency in the school setting. The pathophysiology of said conditions will be presented, the nursing role delineated, and opportunities for paired screening practice provided.

NURS 230. Advanced Concepts in Pathophysiology. 3 Units
Term Typically Offered: Fall, Spring
Seminar designed to promote the understanding and application of fundamental disease processes and physiological principles in cross-clinical settings for the purpose of improving nursing assessments and patient care management. Lecture three hours.
NURS 231. Pharmacology for Advanced Practice. 3 Units
Term Typically Offered: Fall, Spring
Conceptual and systematic study of pharmacodynamics, pharmacokinetics, pharmacoeconomics and therapeutic implications for healthcare practitioners. Efficient use of traditional and web based pharmaceutical resources is encouraged. Designed to meet Board of Registered Nursing requirements for prescriptive privileges. Requires familiarity with disease process. Lecture three hours.

NURS 232. Advanced Physical Assessment Across the Lifespan. 3 Units
Prerequisite(s): NURS 209 and NURS 210.
Term Typically Offered: Fall, Spring
Advanced concepts and skills in health and physical assessment are essential to the clinical decision making and caring process for the nurse in advanced practice and leadership roles. The emphasis is on eliciting an accurate and thorough history considering the client's multiple dimensions, development of advanced physical examination skills and the development of documentation skills to provide a database for continuous improvement of nursing practice.
Note: Availability of a stethoscope is required. Individual practice outside of class is required.

NURS 232A. Advanced Physical Assessment: Infant, Child, Adolescent. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Seminar designed to present techniques related to the physical assessment, in the school or home setting, of the child, age birth through 18 years. Emphasis is on the common morbidities and mortalities of these age groups including interrelationship of the physical, emotional and socioeconomic causes of health problems and illnesses. Availability of an otoscope and stethoscope required. Individual practice required outside of class. Lecture three hours.

NURS 293. Practicum in Organizational and Systems Leadership. 3 Units
Prerequisite(s): NURS 209, NURS 210, NURS 214, NURS 230, NURS 231, NURS 232, and instructor permission.
Corequisite(s): NURS 213.
Term Typically Offered: Fall, Spring
This course provides supervised field experience to provide the student with an opportunity to apply theoretical concepts from NURS 213 in a clinical practice setting focusing on the care of adult clients. The emphasis of this experience will be to application of graduate core competencies to guide leadership in nursing praxis in the planning, implementation and evaluation of quality healthcare for individuals, families, and groups.
Credit/No Credit

NURS 293D. Practicum in Specialized Nursing Processes: School Nursing. 4 Units
Prerequisite(s): NURS 213C.
Corequisite(s): NURS 213D.
Term Typically Offered: Fall, Spring
Application of a planned sequence of supervised clinical experiences in one or more California public school districts offering nursing services to infants, children and adolescents for the purpose of developing a clinical leadership role in school nursing. Focuses on the three major competencies of school nursing practice: providing health and wellness services, providing direct client care services for school age-children (pre-k through age 22, including students with special health care needs), and professional management of school nursing services.
Credit/No Credit

NURS 294. Practicum in Educational Program Development in Nursing. 3 Units
Prerequisite(s): NURS 214, may be taken concurrently.
Term Typically Offered: Fall, Spring
Opportunity for analysis and synthesis of concepts of management and leadership in an educational setting while practicing the role of a nursing educator.
Credit/No Credit

NURS 295. Field Study. 1 - 6 Units
Term Typically Offered: Fall, Spring
Experiences in an off-campus facility are provided for the continued development of clinical or functional role skills. Each student spends 45 hours per unit. Field study is not designed to be used in lieu of regularly scheduled practicums. Enrollment in NURS 295 requires permission of a faculty member who will serve as sponsor and coordinator of the experience.
Credit/No Credit

NURS 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual research, study, and directed reading in an area not directly covered in the Division's core courses, role preparations or electives. Students pursue a particular course of study on a one-to-one basis with a faculty member. Educational objectives must be specified in advance.
Credit/No Credit

NURS 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy for the Master's degree and must be in the final semester of the program.
Term Typically Offered: Fall, Spring
The Culminating Experience is in the form of a comprehensive examination. The comprehensive examination is an original scholarly paper that reflects an in-depth problem-solving proposal or a business proposal. Students that wish to do a thesis or project as the culminating experience must petition the Division of Nursing Graduate Committee and will be approved on an individual basis.
Nutrition and Food (NUFD)

NUFD 5. Science of Food. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

Introduction to food science fundamentals including food composition, chemical and physical reactions, and nutritional properties of food. Overview of evidence-based practices for food selection, storage, and preparation. Examination of specific issues such as food safety, food technology, food supply, and food law. Lecture 3 hours.

NUFD 9. Food Safety and Sanitation. 3 Units
Term Typically Offered: Fall, Spring, Summer

Introduction to food safety principles and application, microbiology of food safety, infection control, and safety issues. Examination of laws and regulations related to consumer and food service operations. Preparation for national food service sanitation certification exam.

NUFD 10. Nutrition And Wellness. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Introduction to the basic principles of nutrition and the relationship of the human diet to health. Overview of the nutrition profession, the biological uses of nutrients and tools for dietary planning. Examination of specific issues such as weight loss, sports nutrition, food safety, the diet-disease relationship and global nutrition. Analysis of special nutritional requirements and needs during the life cycle. Evaluation of personal dietary habits using current dietary guidelines and nutritional assessment methods.

NUFD 11. Principles of Food Preparation. 3 Units
Prerequisite(s): NUFD majors and FACS majors only.
Term Typically Offered: Fall, Spring

Chemical, physical, sensory, and nutritional properties of food related to processes used in food preparation. Activity includes preparation and evaluation of individual food products.

NUFD 100. Research: Methods and Application in Nutrition and Food. 3 Units
Prerequisite(s): 6 NUFD units completed. NUFD majors or minors only.
Term Typically Offered: Fall, Spring, Summer

Study of methods and application of research in the field of Nutrition & Food. Focus on scientific inquiry, methodology, evidenced-based practice, interpretation of research results, program and project evaluation, and professional communication. Includes the examination of ethical practices, professional presentation skills, and technical writing skills.

NUFD 107. Nutrition Education, Communication, and Counseling. 3 Units
Prerequisite(s): NUFD 10 and an additional 3 NUFD units
Term Typically Offered: Fall, Spring

Nutrition Education, communication and counseling techniques for use by the nutrition/dietetcs professional. Introduction and application of various health behavior theories to promote change in diverse target audiences. Development of nutrition care plans, educational materials and activities for individual groups. Understand and apply methods of dietary assessment and motivational interviewing.

NUFD 110. Food Production and Sustainability. 4 Units
Prerequisite(s): NUFD 9, NUFD 10 and NUFD 11
Term Typically Offered: Fall, Spring, Summer

Study and laboratory experience in planning, procuring, production, serving and evaluation of food for individuals, families, commercial, and institutional foodservice operations. Application of menu development techniques such as recipe modification and standardization to various target populations. Examination and application of marketing analysis and promotion. Understanding of current issues and sustainability topics related to food production.

NUFD 111. Grocery Procurement & Merchandising. 3 Units
Prerequisite(s): NUFD 5 or NUFD 10; and NUFD 9
Term Typically Offered: Fall, Spring

This course examines the processes for purchasing and receiving food and non-food products in a retail market setting. The course focuses on procurement and merchandising strategies in the grocery industry which tap into consumer trends and preferences.

NUFD 112. Current Topics in Nutritional Sciences. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Further Studies in Area B (B5), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Examination of contemporary and controversial topics in nutrition science and how they relate to nutritional needs of different population groups. Analyzes the research process and evaluation of validity of nutrition research. Lecture, discussion.

NUFD 113. Nutrition And Metabolism. 3 Units
Prerequisite(s): NUFD 10; BIO 2 or BIO 10 or BIO 20; and Chem 1A or Chem 5 or Chem 6A
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

Study of the structures, types and metabolism of carbohydrates, lipids and proteins. Discussion of the biological roles of vitamins and minerals. Application and integration of metabolic knowledge with health promotion and chronic disease. Lecture, discussion.

NUFD 114. Cultural and Social Aspects of Food. 3 Units
Prerequisite(s): FACS/NUFD 10
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of the cross-cultural and social meaning of food and dietary behaviors. Regional, ethnic, religious, economic, and environmental influences on food habits and health status. Study of how cultural and societal values affect intake, health belief practices, and communication styles. Overview of health disparities in the context of socioeconomic status, race, ethnicity, and education. Understanding implicit bias, cultural differences, diversity, equity, and inclusion while working in a multicultural and diverse environment.
NUFD 115. Nutrition: Pre-conception Through Childhood. 3 Units
**Prerequisite(s):** NUFD 113
**Term Typically Offered:** Fall, Spring

Examination of nutritional requirements, metabolism and issues during stages of the early life cycle, including: pre-conception, pregnancy, lactation, infancy, and early and late childhood. Study of assessment and methods for achieving nutritional needs through dietary selection and promotion of maternal, infant, and child health. Analysis of social, environmental, physical and economic factors affecting nutritional status.

NUFD 116. Food Service Management. 3 Units
**Prerequisite(s):** NUFD 110.
**Term Typically Offered:** Fall, Spring

Study of financial, facility, human resource management in commercial and noncommercial foodservice operations. Application of accounting principles, evaluation and selection of equipment, layout and design, and principles and practices of human resource management as an entry-level manager.

NUFD 117. Community Nutrition. 3 Units
**Prerequisite(s):** NUFD 107, and either NUFD 115 or NUFD 119.
**Term Typically Offered:** Fall

Study of theory, concepts and philosophy affecting nutrition education and services in the community. Introduction to techniques of interviewing and counseling clients. Emphasis on culturally sensitive approaches to dietary assessment, counseling and community nutrition research. Use of a variety of teaching methods to improve nutrition status of the community. Field study involves practical experience in a community nutrition program. Lecture, discussion two hours; field study three hours.

NUFD 118A. Medical Nutrition Therapy I. 3 Units
**Prerequisite(s):** NUFD 113, NUFD 121, and BIO 131.
**Term Typically Offered:** Fall only

Study of the principles of medical nutrition therapy and the Nutrition Care Process. Use the Nutrition Care Process to make decisions, identify nutrition-related problems and determine and evaluate nutrition interventions with patients/clients with various conditions, including, cardiovascular and gastrointestinal disorders.

NUFD 118B. Medical Nutrition Therapy II. 3 Units
**Prerequisite(s):** NUFD 118A, and CHEM 161 or instructor permission.
**Term Typically Offered:** Spring only

Continuation of principles, methods, and skills as developed in NUFD 118A. Review of the etiology, development and dietary prevention and intervention of diseases influenced by nutrition such as: diabetes mellitus, hepatic and biliary diseases, cancer, renal disease, pulmonary disease, neurological disorders, HIV and AIDS, and inborn errors of metabolism. Lecture, discussion two hours; activity two hours.

NUFD 119. Nutrition: Adolescence Through Older Adulthood. 3 Units
**Prerequisite(s):** NUFD 113
**Term Typically Offered:** Fall, Spring

Examination of nutritional requirements, metabolism and issues during stages of the life cycle, including: adolescence, adulthood, and old age. Study of assessment and methods for achieving nutritional needs through dietary selection and promotion of adolescent, adult, and elderly adult health. Analysis of social, environmental, physical and economic factors affecting nutritional status.

NUFD 120. Practical Application in Sports Nutrition. 3 Units
**Prerequisite(s):** NUFD 113
**Term Typically Offered:** Fall, Spring

A survey course in nutrition with an emphasis on the relationship among diet, physical activity, and health; exploration of the changes in the metabolism of carbohydrates, lipids, protein and water; discussion of the function of vitamins and minerals; practical application of evidence-based dietary recommendations for common sports and varying physical intensity.

NUFD 121. Nutrition Assessment, Methods and Support. 3 Units
**Prerequisite(s):** NUFD 113
**Term Typically Offered:** Fall, Spring, Summer

Study of health care systems, the nutrition care process including assessment and support, and clinical implications of malnutrition. Topics include nutrition-focused physical examination, anthropometric, biochemical, dietary, body composition, and functional status evaluation and an understanding of advantages and disadvantages of assessment approaches. Application of various assessment methods and problem solving will be achieved through hands on training and clinical case studies in the context of malnutrition, nutrition support, cancer, eating disorders, and obesity.

NUFD 122. Social Media for Nutrition Communication. 3 Units
**Prerequisite(s):** NUFD 10 and NUFD 100 or NUFD 113
**Term Typically Offered:** Fall, Spring

Examine the uses of social media in the nutrition field and develop a framework to apply to future social media use in professional ventures. Focus on the critical analysis of the appropriateness, potential target populations, health behavior change strategies, the risks and benefits, and overall intended outcomes of social media communication. Create the design and evaluation framework of a social media campaign/initiative.

NUFD 168. Senior Seminar. 3 Units
**Prerequisite(s):** 21 NUFD and/or FACS units
**Term Typically Offered:** Fall, Spring, Summer

Designed to synthesize knowledge in the Nutrition and Food discipline. Examination of the major and career exploration. Analysis of public policy and ethical issues, professionalism and leadership strategies. Includes a capstone project and development of an academic and/or professional portfolio.

NUFD 190D. Dietetic Pathways. 1 Unit
**Prerequisite(s):** Senior standing in the Dietetics Concentration or instructor permission.
**Term Typically Offered:** Fall only

Examination of dietetics career paths, processes and options. Students will learn about the profession of dietetics, including professionalism, the professional organization, pathways, mentoring and the code of ethics.
NUFD 200. Research Methods. 3 Units
Prerequisite(s): Admittance to the NUFD graduate program or instructor permission.
Term Typically Offered: Spring only

A critical examination of quantitative and qualitative research methods used in the nutrition and food discipline. Develop skills in research design, selection, measurement, analysis, and interpretation and presentation of results. Study human research ethics and IRB submission protocol. Explore techniques to ensure assessment tools are valid, reliable, and culturally appropriate.

NUFD 213. Advanced Nutrition with Community Program Applications. 3 Units
Prerequisite(s): Admittance into the MS program or instructor permission.
Term Typically Offered: Fall only

In-depth review of current knowledge and research of nutrients in food application to nutrition policy and public health practice within the US and globally. Examination of physiological function, metabolism, transport, deficiency, toxicity, and interrelationships of macro and micronutrients in relation to the nutrient-disease relationship. Evaluating scientific findings relating to nutrient function, with an emphasis on nutrients of public health concern and food components that pose public health challenges.

NUFD 221A. Advanced Clinical Nutrition A. 3 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Perform nutrition assessment of patients with complex medical conditions. Integration of pathophysiology into medical nutrition therapy. Development, supervision and evaluation of nutrition care plans. Select, calculate, monitor and evaluate nutritional support regiments for patients. Lecture, composition.

NUFD 221B. Advanced Clinical Nutrition B. 1 Unit
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Spring only

Continuation of principles and skills as developed in FACS 221A with application to other complex disease conditions and integration to multiple diseases. Application of genetics and pathophysiology to complex disease conditions. Demonstration of skills in assignments and presentations. Lecture, composition.

NUFD 222. Advanced Community Nutrition and Nutrition Education. 3 Units
Prerequisite(s): Admission into NUFD graduate program, Dietetic Internship program, or instructor permission.
Term Typically Offered: Fall only

The course will examine the implementation of nutrition care for population groups across the lifespan. Explore assessment and evaluation methodologies of community based food and nutrition programs. Nutrition policy development and evaluation based on community needs and resources to address health disparities. Learn advanced nutrition education intervention techniques applying behavioral models and theories.

NUFD 223. Advanced Foodservice Management and Administration. 2 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Management of procurement, distribution, and service of food, and integration of financial, human, physical and material resources. Production of food that meets nutrition guidelines, cost parameters, and consumer acceptance; safety and sanitation issues related to food. Analysis of the operations of food service organization. Lecture, written assignments and practical experience.

NUFD 224. Advanced Community Nutrition and Policy. 3 Units
Prerequisite(s): Admission into NUFD graduate program, Dietetic Internship Program, or instructor permission.
Term Typically Offered: Spring only

Learn and apply the nutrition care process and manage nutrition care for population groups. Conclude outcome assessment, planning, implementation, marketing and evaluation of nutrition programs. Apply the research process and critically evaluate nutrition research. Develop an understanding of nutrition policy and resources.

NUFD 225. Food Production and Sustainability Policy. 3 Units
Prerequisite(s): Admittance into the NUFD graduate program or instructor permission.
Term Typically Offered: Fall only

Exploration of a variety topics including food policies, food systems and sustainable food production. The course will review the political landscape of both food and agriculture and current social movements towards sustainable and just food systems.

NUFD 280. Teaching Methods in Family and Consumer Sciences/Home Economics. 3 Units
Prerequisite(s): Current enrollment in a teaching credential program or instructor permission.
Term Typically Offered: Summer only

This course is designed to provide students with materials, classroom management strategies and methods necessary to successfully teach Family & Consumer Sciences (FCS)/Home Economics Careers and Technology (HECT) at the secondary level. Teacher candidates will become acquainted with legislation, standards, teaching strategies, resources, research and student leadership programs.

NUFD 295. Field Study. 1 - 7 Units
Prerequisite(s): Enrolled in Graduate Studies in NUFD Dietetic Internship Program
Term Typically Offered: Fall, Spring

Guided study, observation or work experience in an area in which the graduate student needs advanced and specialized study.
Note: May be repeated for credit

Credit/No Credit

NUFD 299. Special Problems. 1 - 3 Units
Prerequisite(s): Undergraduate major or minor in Family and Consumer Sciences.
Term Typically Offered: Fall, Spring

Any properly qualified student may pursue a problem after approval by his/her advisor and the staff member with whom he/she works.
Credit/No Credit
NUFD 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy or permission of the graduate coordinator.
Term Typically Offered: Spring only
Guides students through the completion of a thesis or project approved for the Master of Nutrition and Food degree.

Operations Management (OPM)
OPM 101. Operations Management. 3 Units
Prerequisite(s): Student must be a Business Major or Business Administration minor to enroll in this course
Corequisite(s): DS 101
Term Typically Offered: Fall, Spring
Introduction to the basic concepts and methods used to analyze and improve performance of operations in manufacturing and service organizations.

Overseas Student Program (REG)
REG 220. Enrolled in online class at a participating CSU Campus through CourseMatch. 1 - 10 Units
Term Typically Offered: Fall, Spring
Enrollment in an online class at a CSU campus through CourseMatch. Any questions or enrollment changes (drop, withdrawal, change of grade basis, etc.) must be done through the CSU campus hosting the class. Details about the class will be recorded on your Home campus record after completion.

Philosophy (PHIL)
PHIL 2. Ethics. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Examination of the concepts of morality, obligation, human rights and the good life. Competing theories about the foundations of morality will be investigated.

PHIL 4. Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring
Study of the basic skills of good reasoning needed for the intelligent and responsible conduct of life. Topics include: argument structure and identification, validity and strength of arguments, common fallacies of reasoning, use and abuse of language in reasoning, principles of fair play in argumentation.

PHIL 6. Introduction to Philosophy: Knowledge, World and Self. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Representative selection of philosophical problems will be explored in areas such as knowledge, reality, religion, science, politics, art and morals.

PHIL 60. Deductive Logic I. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring
Introduction to deductive logic. Topics include: basic concepts of deductive logic; techniques of formal proof in propositional and predicate logic.

PHIL 61. Inductive Logic I. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring
Introduction to inductive logic and the problem of decision under uncertainty. Topics include: the nature of inductive rationality, philosophical theories of induction and probability, cognitive biases and common errors in inductive reasoning, and philosophical problems in defining risk, rational agency, and the expected value of an action.
PHIL 99. Philosophical Methods. 2 Units
Prerequisite(s): Student must be a declared Philosophy Major.
Term Typically Offered: Fall, Spring

An introduction to philosophical methods and basic concepts to prepare students for coursework in the major. The survey of topics will emphasize developing skills in reading philosophical texts, writing philosophical analyses, and engaging in philosophical discussions.

PHIL 101. Ethics and Social Issues. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring, Summer

Moral controversies that divide society today, such as abortion, the death penalty, affirmative action, sexism, war and peace. Emphasis is on identifying the relevant values and moral principles underlying competing views and subjecting them to rational assessment.

PHIL 102. Professional and Public Service Ethics. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Prepares students planning careers in professional practice or public service to identify, understand, and resolve ethical problems. Includes examinations of (i) ethical theory, rights and duties, virtue ethics, utilitarian ethics, social contract theory, and role morality; (ii) the philosophical underpinnings of professional codes of conduct, regulations, and norms of professional and public service practices; (iii) moral reasoning and argumentation; (iv) the relation between ethical judgement and action; (v) the relation between professional practice, public service, and democratic principles.

PHIL 103. Business and Computer Ethics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Analytical treatment of controversial moral issues which emerge in the business world, e.g., affirmative action, corporate responsibility, the global economy, industry and environmental damage, social effects of advertising, the computer threat to personal privacy, ownership of computer programs. Discussion will focus on basic moral principles and concepts relevant to these issues.

PHIL 104. Bioethics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Ethical dilemmas faced by professionals and patients in the field of medicine, e.g., patient self-determination and informed consent, discrimination in health care, euthanasia, abortion, surrogate motherhood, genetic modification, and rights to health care. Emphasis is on the well-reasoned application of general moral principles to practical medical decisions.

PHIL 105. Science and Human Values. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

Examination of the values implicit in a scientific culture and the problems that arise as a commitment to the development of scientific knowledge and technology. These problems include: distinguishing good scientific practice from bad; the intrinsic value of scientific knowledge independent of its benefits in application; the proper and improper applications of scientific knowledge.

PHIL 106. Philosophy of Medicine. 3 Units
Term Typically Offered: Fall, Spring

Examination of philosophical issues arising in medical theory and practice. Topics include: concepts and theories of health, disease, disability, and death; causal inference, extrapolation, and statistical inference in medical research; ethical concepts and theories relevant to therapeutic treatment and research; animal experimentation; evidence-based medicine and randomized clinical trials; objectivity and bias; expertise and clinical judgment; public health policy and health inequalities.

PHIL 112. History Of Ethics. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Investigation of the main approaches to ethics in Western moral philosophy. Emphasis on Plato, Aristotle, Hume, Kant and Mill.

PHIL 115. Philosophy In Literature. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only – even years

Study of selected works of fiction which focus on philosophically controversial questions, e.g., basic moral dilemmas, the meaning of life, alienation, nihilism, the existence of God.
PHIL 117. Existentialism. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only
Study of the problem of the existing individual, or inner self – most especially the problem of choice in the context of radical freedom and finitude. Particular attention will be paid to the philosophical writings of Kierkegaard, Nietzsche, Heidegger and Sartre, through some major literary works of these figures and others (Camus, Dostoevsky) will also be considered.

PHIL 122. Political Philosophy. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
A philosophical examination of the individual, the community, and rights; the conflict between individual rights and the common good; various conceptions of justice, equality, liberty and the public good; and the relationship of politics to ethics, economics, law; war and peace.

PHIL 123. Philosophy and Feminism. 3 Units
Term Typically Offered: Spring only – even years
Study of feminist perspectives on important philosophical questions. Examples of the questions treated are: mind-body dualism; reason and emotion; the fact/value distinction; the nature of the public and private realms; equal rights; and whether knowledge is intrinsically “gendered.” Different feminist perspectives will be considered and compared with traditional approaches to these questions.

PHIL 125. Philosophy Of Science. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer
Study of the philosophical problems that arise in the sciences: the nature of scientific reasoning, the limits and styles of explanation, identifying pseudoscience, values in science, unity and diversity of the sciences, and science’s impact on our world view.

PHIL 127. History of Ancient Philosophy. 3 Units
Prerequisite(s): PHIL 89.
Term Typically Offered: Fall, Spring
Examination of the origins of Western philosophy, with emphasis on the works of the Pre-Socratics, Plato, and Aristotle.

PHIL 128. History of Modern Philosophy. 3 Units
Prerequisite(s): PHIL 89.
Term Typically Offered: Fall, Spring
Examination of the major developments in Western philosophy after the Middle Ages with emphasis on the period from Descartes to Kant.

PHIL 131. Philosophy Of Religion. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Summer only
Introduction to philosophical theology, the philosophical study of religious assertions, arguments, and beliefs: the existence and nature of God; the rationality of religious belief; the relation of faith to reason; the problem of evil, immortality and resurrection; the possibility of miracles; the meaning of religious language. Includes both traditional and contemporary approaches.

PHIL 136. Philosophy Of Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
Inquiry into the nature of art, beauty and criticism, with critical consideration of representative theories.

PHIL 145A. Chinese Philosophy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall only
Survey of the major philosophical traditions of China and Japan, focusing on concepts of nature, man, society, freedom and knowledge. Special attention will be given to Confucianism, Taoism, Buddhism, and recent philosophical movements. Taught alternate semesters with PHIL 145B.

PHIL 145B. Philosophies Of India. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall only
Survey of the major schools of Indian philosophical development. The emphasis will be on the Hindu and Buddhist traditions, with consideration given to competing notions of the self, consciousness, the origin of human suffering, and the possibility of transcendence.
Note: Taught alternate semesters with PHIL 145A.

PHIL 153. Philosophy Of Mind. 3 Units
Prerequisite(s): 3 units in philosophy or instructor permission.
Term Typically Offered: Spring only
Rival theories of the nature of the mind and mental activity, including dualism, materialism, functionalism. Difficulties in achieving a theoretical understanding of familiar psychological concepts such as belief, sensation, emotion, intention.
PHIL 154. Philosophy Of Language. 3 Units
Term Typically Offered: Fall only

Study of philosophical issues concerning language: theories of the nature of linguistic meaning, in particular those involving the concepts of sense, reference, truth conditions, intention, convention, speech act, and force. Topics include the relation between meaning and reference to objects, and between meaning and mental processes. Emphasis on contemporary views, including views on the promise of a theory of language to shed light on fundamental philosophical problems in metaphysics and the philosophy of mind.

PHIL 155. Philosophy Of Law. 3 Units
Term Typically Offered: Spring only

Theories of the nature of law, e.g., natural law, legal positivism, legal realism. Selected controversies in contemporary law will also be studied, such as the justification of punishment, the legislation of morality, judicial activism vs. judicial restraint.

PHIL 156. Philosophy of the Social Sciences. 3 Units
Term Typically Offered: Fall, Spring

An examination of concepts and problems arising in the philosophical study of the social sciences, including issues pertaining to ontology, epistemology, methodology, values & objectivity, scientific models, and explanation. Some questions explored are: What are social phenomena and social categories? What makes social science different from natural science? How do values influence the practice of social science? What kinds of mathematical and computational models are used in social science? How does social science explain social phenomena?

PHIL 157. Deductive Logic II. 3 Units
Prerequisite(s): CSC 28 or PHIL 60 or instructor permission.
Term Typically Offered: Spring only

Further study of deductive logic. Topics include: principles of inference for quantified predicate logic; connectives; quantifiers; relations; sets; modality; properties of formal logical systems, e.g. consistency and completeness; and interpretations of deductive systems in mathematics, science, and ordinary language.

PHIL 158. Twentieth Century Anglo-American Philosophy. 3 Units
Term Typically Offered: Spring only

Rise of the analytic tradition in contemporary Anglo-American philosophy represents a turn toward common sense, science, language, logic and rigor. Readings will cover the philosophical movements of common sense, logical atomism, logical positivism, ordinary language philosophy and more recent analytical philosophy.

PHIL 159. Knowledge and Understanding. 3 Units
Prerequisite(s): PHIL 60 or 61; PHIL 127 and 128 or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature of knowledge and understanding, as well as related concepts such as explanation, justification, and belief. Representative topics include: the Gettier problem, skepticism, the factivity of understanding, naturalized epistemology, pragmatic encroachment, and the value of knowledge. Emphasis is on contemporary formulations.

PHIL 181. Metaphysics. 3 Units
Prerequisite(s): PHIL 60 or 61; PHIL 127 and 128 or instructor permission.
Term Typically Offered: Fall, Spring

Examines arguments concerning the nature of reality. Representative topics include: substance, space, time, God, free will, determinism, identity, universals. Emphasis is on contemporary formulations.

PHIL 182. Ethical Theory. 3 Units
Prerequisite(s): PHIL 60 or 61; PHIL 127 and 128 or instructor permission.
Term Typically Offered: Fall, Spring

Examines major topics in normative ethics and meta ethics. Representative topics in normative ethics include principles of goodness, virtue, and right action as featured in utilitarianism, virtue theory, Kantianism, or rights-based theories. Representative topics in meta ethics include the semantics of moral terms, the epistemology of moral belief, and the metaphysics of moral properties.

PHIL 183. Rationality. 3 Units
Prerequisite(s): PHIL 60 or 61, PHIL 127, PHIL 128
Term Typically Offered: Fall, Spring

Examines the nature of rationality, its value, structure, limits, purpose, origins, operations, and proper use. Topics include the nature of deductive rationality, inductive rationality, bounded rationality, irrationality, reasoning under ignorance and uncertainty, probabilistic decision-making, expected value theory, utility theory, and game theory.

PHIL 184. Senior Seminar in Philosophy. 1 Unit
Prerequisite(s): Philosophy majors (any concentration), 21 upper-division units in Philosophy, and graduating semester; or instructor permission.
Corequisite(s): Philosophy major (any concentration) and graduating semester; or instructor permission.
Term Typically Offered: Fall, Spring

A required capstone experience in the philosophy major. The course involves: completion of a senior essay under direction of a faculty member; preparation for knowledge and skills examination; submission of written critiques for three public events in philosophy; completion of departmental assessment questionnaire.

PHIL 185. Selected Philosophers. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

An examination of the works of one or more important philosophers in different philosophical areas such as ethics, political philosophy, metaphysics, logic and epistemology.
Note: This course can be repeated for credit once if the second iteration focuses on a different philosopher than the first

PHIL 186. Topics in Bioethics. 3 Units
Prerequisite(s): 6 units of Philosophy or instructor permission
Term Typically Offered: Fall, Spring

Advanced in-depth study of an ethical dilemma faced by professionals and patients in the field of medicine, such as patient self-determination and informed consent, discrimination in health care, euthanasia, abortion, surrogate motherhood, genetic modification, or rights of health care.
### PHIL 192E. Topics in Epistemology.
**Prerequisite(s):** 6 units in Philosophy or instructor permission.
**Term Typically Offered:** Fall, Spring

Topics include: the nature of inquiry, knowledge, explanation, understanding, rationality, judgment, and decision.

**Note:** This course can be repeated for credit once if the second iteration focuses on a different specific topic within Epistemology.

### PHIL 192F. Topics in Ethics.
**Prerequisite(s):** 6 units in Philosophy or instructor permission.
**Term Typically Offered:** Fall, Spring

Topics include: animal rights, abortion, euthanasia and assisted suicide, poverty, race, gender, same-sex marriage, war and humanitarian intervention, environmental ethics, ethics of science or technology, and other advanced topics in bioethics.

**Note:** This course can be repeated once for credit if the second iteration focuses on a different specific topic within Ethics.

### PHIL 192L. Topics in Philosophy Language.
**Prerequisite(s):** 6 units in philosophy or instructor permission.
**Term Typically Offered:** Fall, Spring

Advanced topics in the philosophy of language. Topics may include: sense and reference, meaning and force, intentions vs. conventions, conditions for sameness of sense, conditions for successful reference, propositional content, indexical and demonstrative reference, and the semantics of propositional attitude and perceptual reports, linguistic pragmatics.

### PHIL 192M. Topics in Philosophy of Mind.
**Prerequisite(s):** 6 units in philosophy or instructor permission.
**Term Typically Offered:** Fall, Spring

Topics in Philosophy of Mind. Topics may include: Artificial Intelligence; Qualia; functionalism; philosophy of neuroscience; property dualism; eliminative materialism; or specific theories of consciousness. Emphasis is on contemporary formulations.

### PHIL 192O. Topics in Contemporary Metaphysics.
**Prerequisite(s):** 6 units in Philosophy or instructor permission.
**Term Typically Offered:** Fall, Spring

Contemporary topics in metaphysics. Topics may include: Ontology; realism and anti-realism; universals; individuals; substance; identity through time and change; kinds and degrees of necessity; physicalism; moral realism; realism regarding social entities. Emphasis is on contemporary formulations.

### PHIL 192P. Topics in Social and Political Philosophy.
**Prerequisite(s):** 6 units in Philosophy or instructor permission.
**Term Typically Offered:** Fall, Spring

Topics include: specific theories such as anarchism, libertarianism, and contractualism; feminist theories; critical race theory; philosophy of education; and other concepts such as authority, justice, rights, equality, and freedom.

**Note:** This course can be repeated for credit once if the second iteration focuses on a different specific topic within Social and Political Philosophy.

### PHIL 192R. Topics in Philosophy of Religion.
**Prerequisite(s):** 6 units of Philosophy or instructor permission.
**Term Typically Offered:** Fall, Spring

Topics may include: The problem of evil, atheism, modal arguments for God's existence, design arguments for God's existence, reformed epistemology, recent work in natural theology, divine hiddenness, skeptical theism, or Molinism. Emphasis is on contemporary formulations.

### PHIL 192S. Topics in Philosophy of Science.
**Prerequisite(s):** 6 units of Philosophy or instructor permission.
**Term Typically Offered:** Fall, Spring

Topics include: Issues in the epistemology and ontology of science; special problems in the philosophy of mathematics, physics, chemistry, cognitive science, and biology; naturalistic and non naturalistic approaches to understanding scientific inquiry.

**Note:** This course can be repeated for credit once if the second iteration focuses on a different specific topic within the Philosophy of Science.

### PHIL 192T. Topics in Philosophy of Social Science.
**Prerequisite(s):** 6 units in Philosophy or instructor permission.
**Term Typically Offered:** Fall, Spring

Topics include: the ontology of social kinds, social construction, individualism vs. structuralism, philosophy of economics, explanations of social injustice, critical theory, methodology of social sciences, and categorization and measurement in the social sciences.

**Note:** This course can be repeated for credit once if the second iteration focuses on a different specific topic within the Philosophy of Social Science.

### PHIL 195. Philosophy Internship.
**Prerequisite(s):** Instructor permission.
**Term Typically Offered:** Fall, Spring

Supervised work experience in an approved office or organization where significant philosophical issues are raised. The student must write regular reports on these issues. Supervision is provided by the faculty instructor and a managing official in the work situation. Open to majors only.

Credit/No Credit

### PHIL 196. Experimental Offerings in Philosophy.
**Term Typically Offered:** Fall, Spring

Experimental offerings will be scheduled as needed.

### PHIL 197. Honors Thesis.
**Prerequisite(s):** Admission into Philosophy Department Honors Concentration.
**Term Typically Offered:** Fall, Spring

Capstone seminar for Honors Program students in Philosophy major. Student will propose, research, write, and present an honors thesis; student will also provide comments and criticism of other honors theses.

### PHIL 199. Special Problems.
**Term Typically Offered:** Fall, Spring

Special projects calling for independent philosophical investigation under the supervision of an individual faculty member.

**Note:** Requires prior approval of the faculty member under whom work is to be conducted.

Credit/No Credit
PHIL 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Special projects calling for independent philosophical investigation under the supervision of an individual faculty member.
Note: Requires graduate status and prior approval of the faculty member under whom work is to be conducted.
Credit/No Credit

Photography (PHOT)

PHOT 11. Digital Photography I. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring
An introduction to digital photographic image making. Course acquaints students with photographic equipment and techniques used to create and disseminate digital images. Aesthetic, conceptual, and cultural issues surrounding the production and application of photographic images are also discussed.

PHOT 12. Digital Photography II. 3 Units
Prerequisite(s): PHOT 11. Fee course.
Term Typically Offered: Fall, Spring
An introduction to composited photographic images. Course provides a broad primer to digital editing and compositing techniques. Lectures and discussions provide artistic and ethical context for contemporary photographic practice.
Fee course.

PHOT 15. Survey of Photography. 3 Units
Term Typically Offered: Fall, Spring

PHOT 20. The Photographic Self. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
Focuses on photography’s influence on notions of self from its inception in 1938 to the present. Enhances students’ understanding of how and why photography became the powerful and ubiquitous tool that shaped a new form of visual self-expression.

PHOT 40. Darkroom Photography. 3 Units
Term Typically Offered: Fall, Spring
Course covers basic concepts and skills in chemical-process photography. Emphasis is placed on basic camera theory, film exposure and development, darkroom printing, and post processing techniques. Lectures, discussions, and assignments provide artistic and historical context for the creation and interpretation of photographic images.
Note: This course requires safety training. This course requires personal protective equipment (PPE).

PHOT 101. Photography, Inception to Mid-Century. 3 Units
Term Typically Offered: Fall only
Introduces students to the history of photography, from inception to Mid-20th Century. Practices of photographers and artists, working with photographic technologies, will be discussed. The course examines photographic vision and the impact of the medium through lectures and readings by art historians and photographers.
Cross-listed: ART 101.

PHOT 102. Photography, a Social History. 3 Units
Term Typically Offered: Spring only
Examines photographic vision and the impact of the medium on society through readings by both photographers and photographic critics. Establishes the importance of photography as a contemporary medium, explores the development of photographic vision and the relationship between photographs and cultural events. Lecture/discussion.

PHOT 111. Intermediate Digital Photography. 3 Units
Prerequisite(s): PHOT 11 and PHOT 40
Term Typically Offered: Fall, Spring
Covers intermediate to advanced concepts and techniques in digital photographic practice, providing students with the ability to explore both new and previously mastered software and hardware applications. Emphasis is on using digital techniques to generate and print effective and imaginative photographs. Lectures, discussions, and assignments focus on expanding the technical, aesthetic, and conceptual concerns surrounding the creation and application of photographic imagery.
Note: This course requires safety training. This course requires personal protective equipment (PPE).

PHOT 141. Intermediate Darkroom Photography. 3 Units
Prerequisite(s): PHOT 11 and PHOT 111
Term Typically Offered: Fall, Spring
Course covers intermediate level concepts and skills in chemical-process photographic practice. Emphasis is placed on the artistic potential of camera- and darkroom-based image production and manipulation. Lectures, discussions, and assignments focus on expanding the aesthetic and conceptual concerns surrounding the creation and application of photographic imagery.

PHOT 148. Artificial Light, Studio. 3 Units
Prerequisite(s): PHOT 111 and PHOT 141
Corequisite(s): PHOT 102 and PHOT 155
Term Typically Offered: Spring only
A commercially oriented course with assignments covering such topics as food, fashion and products photographed with artificial light in the studio. Business, legal and ethical practices in commercial and editorial photography are discussed as they apply to work done in a studio setting. Students are expected to become visually and technically competent with artificial light sources used in a studio setting.

PHOT 149. Artificial Light, Location. 3 Units
Prerequisite(s): PHOT 148 and PHOT 155
Corequisite(s): PHOT 165
Term Typically Offered: Fall only
A location lighting course covering the use of artificial light and non-studio photography. Assignments cover such topics as: interior and exterior architecture, food and fashion shot on location. Techniques for combining the use of hot lights, electronic flash and ambient light are discussed. Students will use a body of work demonstrating their visual and technical understanding of artificial light sources for editorial and commercial application.
PHOT 155. Advanced Photography Techniques. 3 Units
Prerequisite(s): PHOT 111 and PHOT 141
Corequisite(s): PHOT 102 and PHOT 148
Term Typically Offered: Spring only

Explores advanced techniques in the production of photographic imagery, with special emphasis on the hybridization of photographic processes. Lectures cover advanced chemical and digital photographic procedures in camera use and printing techniques. Students must demonstrate a high level of visual awareness and technical competency, and must be willing to take risks in the creative application of photographic processes.

PHOT 161. Photography in the Field. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring

The class visits specific sites followed by a group critique of the resulting photographic work. The course objective is to examine how one situation can be interpreted by many varied sensibilities, broadening the artist's visual vocabulary. Students are required to create visually unified portfolio that demonstrates a sense of place.
Cross-listed: ART 161.

PHOT 162. Alternative Photographic Processes. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring

Studio course exploring alternative photographic processes that may include: printing-out paper, new cyanotype, argyrotype, and platinum-palladium. Slide discussions, individual and class critiques.
Cross-listed: ART 162.

PHOT 163. Pinhole Photography. 3 Units
Prerequisite(s): PHOT 40 or equivalent.
Term Typically Offered: Fall, Spring

Intermediate course investigating the theory, history, and practice of pinhole photography. Use of student-made pinhole cameras of varying focal lengths using black and white and color materials. Emphasis on creative approach in both camera making and image formation, supported by intermediate-level photographic technique. Individual final portfolios and group exhibition of cameras and prints at conclusion of course.
Cross-listed: ART 163.

PHOT 165. Issues in Contemporary Photographic Practice. 5 Units
Prerequisite(s): PHOT 148 and PHOT 155 Fee course.
Term Typically Offered: Fall only

Covers advanced problems in the process of creating photographic work. Emphasis is on the ways which content/form relationships within a body of work are informed by the artist's conceptual and material engagement, as well as the way in which process and context shape meaning in photographic work. Course centers on readings in contemporary theory and aesthetics, discussion, the production of photographic work, and critique.
Note: Type III Fee, $45

PHOT 175. Studio Topics in Photography. 3 Units
Prerequisite(s): PHOT 148 and PHOT 155
Term Typically Offered: Fall, Spring

This class is a broad investigation of photography's potential. Each semester the class concentrates on a photographic strategy including but not limited to: documentary, journalism, fabrication, image and text, and the archive. Students are introduced to photography's varied application, new developments and conversations in the medium. Readings and discussions will enlist a range of theoretical and critical approaches. Course center on readings, discussion, production of photographic work and critique.

PHOT 180. Senior Portfolio. 5 Units
Prerequisite(s): PHOT 165 Fee course
Term Typically Offered: Spring only

A senior level course aimed at furthering student's knowledge of postgraduate opportunities. The required final portfolio of images will reflect the student's photographic education, experience and area of expertise. The content and format of this portfolio will depend on the student's future academic or professional goals.
Note: Type III Fee $45

PHOT 195. Studio Topics in Photography. 3 Units
Prerequisite(s): PHOT 148 and PHOT 155
Term Typically Offered: Spring only

A minimum of two upper division photography courses.

PHOT 199. Internship In Photography. 1 - 3 Units
Prerequisite(s): A minimum of two upper division photography courses.
Term Typically Offered: Fall, Spring

Directed observation and work experience with public agencies, organizations, publications, design or photography studios. Fieldwork is offered to give students experience, personal contacts and orientation in the area of professional photography. Supervision is provided by faculty and the cooperating community employer. Students are required to maintain a detailed record of activities and report regularly to the supervising faculty member. To receive credit the selected activity must be approved prior to adding the course. Ten hours weekly.
Credit/No Credit

PHOT 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed readings in photography. Open to students who are working at an advanced level of photography and competent to carry on individual work.
Credit/No Credit

PHOT 299. Special Problems. 1 - 3 Units
Prerequisite(s): Requires instructor approval.
Term Typically Offered: Fall, Spring

Individual projects or directed readings in photography for graduate level students. Open to students who are working at an advanced level of photography and competent to carry on individual work.
Credit/No Credit
Physical Science (PHSC)

PHSC 75. Introduction to Machine Shop Practices. 2 Units
Term Typically Offered: Fall, Spring
Safe machine operation techniques on common fabrication equipment. Study of materials and methods used to build testing and measuring equipment. Reading and calibrating measuring devices, gauging and optical gauging. Study of measuring conventions and understanding of precision. Interpretation of drawings, tolerances and tactics for maintaining tolerances. Jigs and mounts for dynamic data collection equipment. Prototype manufacturing. Students completing this course qualify to perform work in the shop with minimum supervision. Lecture one hour; Laboratory three hours.

PHSC 107. History of the Physical Sciences. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
Study of the development of the major physical laws presently used in describing our physical world. Some considerations of the influences of these developments on other areas of knowledge and on society in general. Cross Listed: HIST 107; only one may be counted for credit.

PHSC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading.
Note: Open only to students who appear competent to assume individual work on the approval of the instructor. Up to 4 units may be taken for grade.
Credit/No Credit

Physical Therapy (PT)

PT 280. Graduate PT Seminar II. 1 Unit
Term Typically Offered: Fall, Spring
Presented after the final clinical field experience, will review students' experiences in the clinic and promote reflection on the professional practice of physical therapy. Serves as a review of a variety of physical therapy subjects in preparation for the licensure examination. Students will use computer interactive software to assist with preparation for this standardized national test format.
Note: Open to Physical Therapy majors only.

PT 295. Physical Therapy Clinical Experience. 1 - 3 Units
Term Typically Offered: Fall, Spring
Supervised clinical affiliation equivalent to two full-time weeks up to six full-time weeks in a physical therapy setting under the direct supervision of a licensed Physical Therapist.
Note: Placement is arranged through the Program. Permission of Clinical Coordinator required.
Credit/No Credit

PT 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading designed for students capable of independent study.
Note: Admission requires written approval of instructor and program director.
Credit/No Credit

PT 510. Audiology Progress Exam. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 620, CSAD 620C, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 630, CSAD 630C, CSAD 631, CSAD 632.
Term Typically Offered: Summer only
Formative written and practical exam based on coursework and clinical experiences from the first year of the Doctor of Audiology program.
Credit/No Credit

PT 600. Pathokinesiology. 5 Units
Prerequisite(s): Open to Physical Therapy majors only.
Corequisite(s): BIO 633, PT 602, PT 608, PT 630.
Term Typically Offered: Fall, Spring
This course will address functional anatomy, surface anatomy with palpation, arthrology, biomechanics, pathologies related to the musculoskeletal and nervous systems. Both normal motion and pathological motion will be addressed. Students will gain competence in surface anatomy and palpation skills.

PT 602. Evidence Informed Practice I. 3 Units
Prerequisite(s): Open to Physical Therapy majors only.
Corequisite(s): BIO 633, PT 600, PT 608, PT 630.
Term Typically Offered: Fall, Spring
This course is designed to teach students to critically read and interpret the physical therapy scientific literature. Topics will include research design and statistical testing procedures commonly used in physical therapy. Students will review and critique current physical therapy articles utilizing the research designs and statistical testing procedures being studied.

PT 604. Principles of Human Movement. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 606, PT 614, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring
This course focuses on developing an understanding of components of human movement under normal and pathological conditions. Content includes the American Physical Therapy Association Model of Practice, models of disablement, contemporary concepts of motor learning and motor control, task analysis, and theories of the recovery of function. The course includes a review of the foundations of neuroanatomy for normal movement.
Note: Open to Physical Therapy majors only.
PT 606. Therapeutic Measurements and Techniques. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 614, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

In this course students acquire general physical therapy examination, evaluation and patient handling skills. Students will practice and demonstrate techniques under faculty supervision in the following areas: Measurement of vital signs, manual strength testing, testing of joint range of motion and muscle length, patient positioning, transfer techniques, gait training, use of wheelchairs, and use of assistive devices.

Note: Open to Physical Therapy majors only.

PT 608. PT/Patient/Professional Interactions. 2 Units
Corequisite(s): BIO 633, PT 600, PT 602, PT 630.
Term Typically Offered: Fall, Spring

The course prepares physical therapy students to learn about themselves, others, and the environment in which they will interact with others as professionals. It addresses professionalism, self-awareness, communication, cultural competence, ethics, documentation, and end-of-life care. This course assists students with transitioning into their professional roles.

Note: Graduate Writing Intensive (GWI) course that is part of the Writing Enriched Curriculum (WEC) of the program; open to Physical Therapy majors only

PT 614. Neuroscience for Physical Therapy. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 606, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

This course is designed to prepare clinicians to better understand the neurological control of human behavior. A systems approach is used to examine the major anatomical and physiological principles and mechanisms by which the nervous system controls behavior under normal and pathological conditions. Because the course is being taught to health care professionals, clinical correlates of each system will also be presented. One class session is dedicated to presentation of human gross anatomical specimens.

PT 618. Foundations for Patient Management. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 606, PT 614, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

This course introduces the disablement model that forms the conceptual framework for understanding and organizing the practice of physical therapy. The model delineates the possible consequences of disease and injury for the person and society. The course goes on to identify how the model informs the five elements of patient management: Examination, Evaluation, Diagnosis, Prognosis (including Plan of Care), and Intervention. The course will further expand on professionalism introduced in PT 608.

Note: Open to Physical Therapy majors only.

PT 620. Physical Therapy Interventions I. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 606, PT 614, PT 618, PT 622.
Term Typically Offered: Fall, Spring

In this course students learn, practice and demonstrate the clinical application of basic exercise regimes for the prevention of limitations, improvement of functional abilities and the treatment of disorders associated with the neuromuscular, skeletal and cardiopulmonary systems. In addition, the application of motor control principles to exercise and aquatic therapy are addressed.

Note: Open to Physical Therapy majors only.

PT 622. Evidence Informed Practice II. 3 Units
Corequisite(s): PT 604, PT 606, PT 614, PT 618, PT 620.
Term Typically Offered: Fall, Spring

Designed to build upon the data analysis and research design topics covered in PT 602. Emphasis will be placed on evidence based methodologies currently used in the physical therapy literature evaluating the effectiveness of interventions, the validity of outcome measures, the validity of diagnostic measures, and the identification of prognostic measures.

Note: Open to Physical Therapy majors only. Prerequisite

PT 624. Adult Neuromuscular Patient Management I. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 638.
Corequisite(s): PT 625, PT 626, PT 636, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course is first in a three course sequence focused on acquisition and integration of knowledge and skills needed to manage patients with movement dysfunction caused by neurological damage (Refered to in the Guide as Neuromuscular Practice Patterns). Focus is on development and implementation of plans of care based on sound evaluative, treatment and problem-solving skills.

Note: Open to Physical Therapy majors only.

PT 625. Musculoskeletal Patient Management I. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 638.
Corequisite(s): PT 624, PT 626, PT 636, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course, the first of three, focuses on acquisition, integration, knowledge and skills involved in developing and implementing a patient management plan for the patient with musculoskeletal dysfunction based on sound evaluative findings. Lectures address etiology, signs and symptoms, medical, surgical, and physical therapy management of musculoskeletal dysfunction. Labs address skill development for performing evaluation and interventions safely and effectively. The course addresses the management of lower extremity dysfunction.

Note: Open to Physical Therapy majors only.
PT 626. Clinical Agents. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 638.
Corequisite(s): PT 624, PT 625, PT 636, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course presents theory, demonstration and laboratory practice in physical therapy modalities and techniques including thermal agents, hydrotherapy, ultrasound (US), ultraviolet, diathermy and massage. Theory, demonstration and practice using electrical modalities are included. Case studies will be utilized for decision making in the proper application of modalities based on current research evidence, knowledge of indications, contradictions and physiologic effects.

Note: Open to Physical Therapy majors only.

PT 627. Physical Therapy Educator. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 646.
Corequisite(s): PT 644, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course presents the role of the physical therapist as health educator. The course introduces teaching and learning theory, learning domains, the identification of learning styles, and teaching strategies to address different learner needs across the life-span. Students will practice instructional formats and prepare and analyze patient education materials. Students will practice applications of appropriate technology for the design of professional presentations. Self-assessment, reflection and peer-assessment are required course components.

Note: Open to Physical Therapy majors only.

PT 630. Pathophysiology. 3 Units
Prerequisite(s): Admission to the Doctor of Physical Therapy Program.
Corequisite(s): BIO 633, PT 600, PT 602, PT 608.
Term Typically Offered: Fall, Spring

This course is designed to promote the understanding and application of fundamental disease processes in clinical settings. General concepts of disease, including etiology, pathogenesis, morphology, and clinical significance are discussed within the context of cases. General pathophysiology concepts include: cell injury, necrosis, inflammation, wound healing and neoplasia. These concepts are applied in a systems-orientated approach to disease processes affecting musculoskeletal, cardiopulmonary, renal, nervous, gastrointestinal, immune, hematological and endocrine systems.

PT 632. Pharmacology for Physical Therapists. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 634, PT 638.
Term Typically Offered: Fall, Spring

This course provides a study of pharmacological agents and their effects on the musculoskeletal, neuromuscular, cardiopulmonary and integumentary systems. Particular emphasis is placed on recognition of adverse reactions and side effects of various drugs as they affect patients receiving physical therapy.

Note: Open to Physical Therapy Majors only.

PT 634. Diagnostic Imaging for Physical Therapy. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 632, PT 638.
Term Typically Offered: Fall, Spring

This course provides an overview of imaging techniques commonly used in radiology and their implications to the role of physical therapists in professional practice. The role of imaging techniques in the diagnostic and intervention-planning processes for physical therapists is presented.

Note: Open to Physical Therapy Majors only.

PT 636. Geriatrics/Gerontology for Physical Therapists. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 638.
Corequisite(s): PT 624, PT 625, PT 626, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course explores normal and pathological aging and the implications of both on Physical therapist practice. It will explore the ramifications of aging components of patient management interventions including major practice patterns: musculoskeletal, neuromuscular, cardiopulmonary, and integumentry. It will also explore how aging may impact patient teaching.

Note: Open to Physical Therapy majors only.

PT 638. Health, Wellness and Ergonomics in Physical Therapy. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634.
Corequisite(s): PT 632, PT 634.
Term Typically Offered: Fall, Spring

This course presents basic philosophical, historical, psychological and scientific foundations in wellness; reviews cultural forces/theories that affect individuals and society; applies concepts of healthy lifestyle education to reach an understanding of the importance of wellness and to establish an effective and potentially fulfilling lifestyle.

Note: Open to Physical Therapy majors only.

PT 640. Physical Therapy Interventions II. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, and PT 638.
Corequisite(s): PT 624, PT 625, PT 626, PT 636, PT 646.
Term Typically Offered: Fall, Spring

This course is a continuation of Physical Therapy Interventions I. This course focuses on the presentation of selected topics in acute care and cardiopulmonary Physical Therapy. Students will learn how to perform appropriate and comprehensive examinations, interpret the examination findings as well as design and implement a plan of care based upon the next available evidence.

Note: Open to Physical Therapy majors only.
PT 644.  Adult Neuromuscular Patient Management II.  4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring
This course is the second in a three course sequence focused on acquisition and integration of knowledge and skills needed to manage patients with movement dysfunctions caused by neurological damage (Referred to in the Guide as Neuromuscular Practice Patterns). Focus is on development and implementation of plans of care based on sound evaluative findings and evidence of efficacy. Case presentation, video demonstrations, and patient contact is used to develop evaluation, treatment and problem solving skills.
Note: Open to Physical Therapy majors only.

PT 645.  Musculoskeletal Patient Management II.  4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring
This course, the second of three, focuses on acquisition and integration of knowledge and skills involved in developing and implementing management plans for patients with musculoskeletal dysfunction from sound evaluative findings. Lectures address etiology, signs and symptoms, medical, surgical, and physical therapy management of musculoskeletal dysfunction. Labs address safe and effective evaluation and interventions, specifically joint mobilizations. Joint mobilizations will cover one technique per joint restriction. This course addresses upper extremity and spine dysfunction.
Note: Open to Physical Therapy majors only.

PT 646.  Acute Care and Cardiopulmonary Physical Therapy.  2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636 and PT 638.
Corequisite(s): PT 624, PT 625, PT 626, PT 640.
Term Typically Offered: Fall, Spring
This course focuses on the presentation of selected topics in acute care and cardiopulmonary Physical Therapy. The course includes a discussion of common pathologies in the cardiopulmonary system and those associated with an acute care setting, as well as common medical tests, laboratory tests, surgical procedures and pharmacological interventions used with this patient population.
Note: Open to Physical Therapy majors only.

PT 648.  Health Care Delivery in Physical Therapy I.  2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 662, PT 669.
Term Typically Offered: Fall, Spring
This course provides a historical overview of health care delivery and financing in the U.S., up to and including the current effects on the delivery of physical therapy care. The continuum of care concept, an overview of national economic policy and the mechanisms for financing physical therapy services will be presented. Administrative topics including human resources, financial management, planning, marketing, patient’s rights, and medical records management will be covered.
Note: Open to Physical Therapy majors only.

PT 660A.  Graduate Physical Therapy Seminar A: Research.  1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630
Term Typically Offered: Fall, Spring, Summer
This seminar is the first designed for advanced study and mentoring in physical therapy research. Students will be participating in faculty-directed research projects. Students’ activities will vary depending on the faculty member and research project being conducted. Students are required to perform at least 50 hours of activities toward the directed research project to receive credit for this course. This course satisfies one of two requirements for selected seminars in the curriculum.

PT 660B.  Graduate Physical Therapy Seminar B: Research.  1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630
Term Typically Offered: Fall, Spring, Summer
This seminar is the second designed for advanced study and mentoring in physical therapy research. Students will be participating in faculty-directed research projects. Students’ activities will vary depending on the faculty member and research project being conducted. Students are required to perform at least 50 hours of activities toward the directed research project to receive credit for this course. This course satisfies one of two requirements for selected seminars in the DPT curriculum.

PT 660C.  Graduate Physical Therapy Seminar C: Research.  1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630
Term Typically Offered: Fall, Spring, Summer
This seminar is the third designed for advanced study and mentoring in physical therapy research. Students will be participating in faculty directed research projects. Students’ activities will vary depending on the faculty member and research project being conducted. Students are required to perform at least 50 hours of activities toward the directed research project to receive credit for this course. This course satisfies one of two requirements for selected in the DPT curriculum.
Note: Open to Physical Therapy majors only.
**PT 660D. Graduate Physical Therapy Seminar ID: Electrotherapeutics.**

2 Units

**Prerequisite(s):** BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 646.

**Corequisite(s):** PT 627, PT 644, PT 645, PT 648, PT 662, PT 669.

**Term Typically Offered:** Fall, Spring

This is a seminar laboratory experience focusing on electrophysiology and electrodiagnostics in physical therapy. The lab will allow students to research and apply evidence-based practice and gain advanced hands-on practice in performing and interpreting the results of electromyographic and nerve conduction velocity testing with clients. This course satisfies one of two requirements for selected seminars in the curriculum.

**Note:** Open to Physical Therapy majors only.

**PT 660E. Graduate Physical Therapy Seminar IE: NeuroPediatric Laboratory.**

2 Units

**Prerequisite(s):** BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.

**Corequisite(s):** PT 663, PT 664, PT 665, PT 668, PT 680, PT 690.

**Term Typically Offered:** Fall, Spring

This seminar laboratory experience focuses on pediatric patient management. The lab will allow students to research and apply evidence-based practice and gain advanced hands-on practice in pediatric physical therapy. This course is best suited for students planning a career in pediatric patient management. The course satisfies one of two requirements for selected seminars in the curriculum.

**Note:** Open to Physical Therapy majors only.

**PT 660F. Graduate Physical Therapy Seminar IF: Adult Neuromuscular Laboratory.**

2 Units

**Prerequisite(s):** BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 646, PT 648, PT 662, PT 669.

**Corequisite(s):** PT 663, PT 664, PT 665, PT 668, PT 680, PT 690.

**Term Typically Offered:** Fall, Spring

This seminar laboratory experience focuses on adult neuromuscular patient management. The laboratory will allow students to research and apply evidence-based practice and gain advanced hands-on practice in adult neurorehabilitation. Students will also serve as mentors for the Mock Clinic portion of PT 624. This course satisfies one of two requirements for selected seminars in the curriculum.

**Note:** Open to Physical Therapy majors only.

**PT 660G. Certified Strength and Conditioning Specialist (CSCS).**

2 Units

**Prerequisite(s):** BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.

**Corequisite(s):** PT 663, PT 664, PT 665, PT 668

**Term Typically Offered:** Fall, Spring

This seminar is designed to prepare students to take the Certified Strength and Conditioning Specialist Examination. The seminar covers the topics of exercise physiology, bioenergetics, nutritional factors in performance, resistance, speed, and agility training, endocrine responses to resistance training, exercise testing, and other training considerations. This course satisfies one of two requirements for selected seminars in the curriculum.

**Note:** Open to Physical Therapy majors only.

**PT 660H. Graduate Physical Therapy Seminar H: Cardiovascular Wellness Clinic Experience.**

1 Unit

**Prerequisite(s):** BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.

This elective provides mentored clinical experience for students in the area of cardiovascular wellness. The student will design and implement an evaluation of a volunteer client in a cardiovascular wellness program, develop an individualized plan of care, and monitor the impact of the intervention. A written comprehensive case report will analyze the impact of the interventions on the cardiovascular wellness of the client.

**Note:** Open to Physical Therapy majors only.

**PT 660J. Graduate Physical Therapy Seminar IJ: Adv. Biomechanics I.**

1 Unit

**Prerequisite(s):** BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.

This elective is designed to prepare students to run a gait analysis clinic. The course covers the topics of assessment of balance, lower extremity strength assessment, special tests, and running analysis from both the research “gold standard” as well as the clinically feasible perspective with a particular focus on running.

**Note:** Open to Physical Therapy majors only.

**PT 660K. Graduate Physical Therapy Seminar 1K Adv. Biomechanics II.**

1 Unit

**Prerequisite(s):** BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.

This elective is designed to prepare students to run a gait analysis clinic in the biomechanics laboratory. The course is one unit of lecture and one unit of lab, and covers the topics of assessment of balance, lower extremity strength assessment, special tests, and running analysis from both the research “gold standard” as well as the clinically feasible perspective with a particular focus on running.
PT 662.  Differential Diagnosis in Physical Therapy.  3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 669.
Term Typically Offered: Fall, Spring

This course focuses on learning and practicing screening techniques for physical therapists to detect medical or other problems for which a referral to a medical doctor or another health care provider is indicated. Students will learn to screen patients for dysfunction in a variety of physiological systems by taking medical history, medication history, performing a risk factor assessment and manual examination, and screening various physiological systems.

Note: Open to Physical Therapy majors only.

PT 663.  Integumentary Patient Management.  2 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 662, 669 and 695A.
Corequisite(s): PT 664, PT 665, PT 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This course focuses on the management of patients with integumentary impairments and their related sequelae. Topics include post-surgical management of patients with amputations, prosthetics, and management of the patient with a wound or burn injury. Lecture, case presentation, video demonstrations, and laboratory activities will be used to develop patient management skills.

Note: Open to Physical Therapy majors only.

PT 664.  Neuropediatric Patient Management.  2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669 and PT 695A.
Corequisite(s): PT 663, PT 665, PT 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This course is the third part of a three course series focusing on the acquisition and integration of knowledge and skills involved in developing and implementing a treatment plan based on sound evaluative findings for the patient with neurological dysfunction. In this course, the focus is on the pediatric patient with neurological dysfunction. Case presentation, video demonstrations, and actual patient contact will be used to develop evaluation, treatment, and problem-solving skills.

Note: Open to Physical Therapy Majors only.

PT 665.  Musculoskeletal Patient Management III.  3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669, PT 695A. Corequisite: PT 663, PT 664, PT 668, PT 690.
Term Typically Offered: Fall, Spring

This course builds on the foundational intervention techniques established for management of the patient with musculoskeletal dysfunction in PT 625 and PT 645. It will address additional manual therapy skills and students will apply their developing skills under faculty supervision to patients referred from the Student Health Center. Students will be responsible for patient management of a case load including accurate documentation and submission of patient records to the Student Health Center.

Note: Open to Physical Therapy Majors only.

PT 666.  Health Care Delivery in Physical Therapy II.  2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669 and 695A.
Corequisite(s): PT 663, PT 664, PT 665, PT 680, PT 690.
Term Typically Offered: Fall, Spring

In this course, students will have professional practice behavior expectations and requirements previously introduced in other courses reinforced through the review of the American Physical Therapy Association documents: the Standard of Practice for Physical Therapy and the Code of Ethics, as well as the State of California’s Physical Therapy Practice Act. Additionally, students will hear from other health care professionals on their expectations of the physical therapist’s role on a health care team.

Note: Open to Physical Therapy Majors only.

PT 667.  Psychosocial Issues in Physical Therapy.  1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662.
Term Typically Offered: Fall, Spring

This course examines psychological and social impact of and reactions to illness and physical disability. Explores elements of the psycho-social dynamics related to disability with a focus on adjustments required of the disabled and the provider. The course addresses social, cultural, personal, and familial factors which impact comprehensive rehabilitation in the clinical setting. Attention will be placed on interpersonal relationships between patients, family, health care providers, and society.

Note: Open to Physical Therapy Majors only.
PT 680. Graduate Physical Therapy Seminar II. 1 Unit
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 662 and 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668, PT 690.
Term Typically Offered: Fall, Spring

This course, presented just prior to the final clinical internships, will review student's experiences in the curriculum and promote reflection on the professional practice of physical therapy. The course will review professional core values and expectations for clinical internships. The course will also review portfolio requirements to determine students' readiness to proceed into final internships. In addition, students will be expected to develop five year personal professional development plans.
Note: Open to Physical Therapy majors only.

PT 689. Doctoral Project Proposal. 1 Unit
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, and PT 646
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662, and PT 669
Term Typically Offered: Spring only

The Doctoral Project Proposal must demonstrate students' understanding of the application of current evidence-based practice to physical therapist practice in a multicultural and complex health care environment. The case report proposal and oral defense are the final requirements for Advancement to Candidacy in the Doctor of Physical Therapy program. The 3000-word minimum case report completes the Writing Enriched Curriculum began in PT608 for fulfilling the Graduate Writing Assessment Requirement (GWAR) in the DPT program.
Note: Graduate Writing Intensive (GWI) course that is part of the Writing Enriched Curriculum (WEC) of the program; Open to Physical Therapy Majors only.
Credit/No Credit

PT 690. Doctoral Project/Culminating Experience. 3 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 663, PT 664, PT665, PT 668, PT 669, PT 680, and PT 695A
Term Typically Offered: Fall, Spring

The Doctoral Project/Culminating Experience may include evidence-based practice projects, clinical research projects, or case reports consistent with the Chancellor's Office Executive Order. Culminating events must demonstrate students' understandings of the application of current evidence-based practice in a multicultural and complex health care environment. They must be of sufficient rigor to ensure students' demonstrations of critical and independent thinking and abilities to interpret the research literature and apply to current physical therapist practice.

Credit/No Credit

PT 695A. Clinical Experience I. 6 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 669 and 689.
Term Typically Offered: Fall, Spring, Summer

The first full-time clinical experience in the Doctor of Physical Therapy (DPT) program curriculum totals 12 weeks of clinical education in an assigned clinical setting under the direct supervision of a licensed physical therapist. Students improve and refine evaluation and treatment abilities developed during their first two academic years and integrate knowledge and skills in a selected variety of clinical settings.
Note: Open to Physical Therapy majors only who have successfully completed the first five semester of the DPT curriculum.
Credit/No Credit

PT 695B. Clinical Experience II. 6 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 669, 689, 663, 664, 665, 668, 690 and 695A.
Term Typically Offered: Fall, Spring, Summer

The second full-time clinical education experience in the Doctor of Physical therapy (DPT) program curriculum totals 12 weeks of clinical education in an assigned clinical setting under the direct supervision of a licensed physical therapist. Students improve and refine patient management skills and abilities developed during their first seven semesters.
Note: Open to Physical Therapy majors only who have successfully completed the first seven semesters of the DPT curriculum.
Credit/No Credit

PT 695C. Clinical Experience III. 6 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 669, 689, 663, 664, 665, 668, 690, 695A, and 695B.
Term Typically Offered: Fall, Spring, Summer

The third full-time clinical education experience in the Doctor of Physical therapy (DPT) program curriculum totals 12 weeks of clinical education in an assigned clinical setting under the direct supervision of a licensed physical therapist. Students improve and refine patient management skills and abilities developed during their first eight semesters.
Notes: Open to Physical Therapy majors only who have successfully completed the first eight semesters of the DPT curriculum.
Credit/No Credit

PT 695J. Graduate Physical Therapy Seminar IJ Adv. Biomechanics I. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630, PT 604, PT 606, PT 614, PT 618, PT 620, PT 622, PT 623, PT 634, PT 636, PT 638, PT 640, PT 624, PT 625, PT 626, PT 640, and PT 646
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 669, and PT 662
This elective is designed to prepare students to run a gait analysis clinic in the biomechanics laboratory. The course is one unit of lecture and one unit of lab, and covers the topics of assessment of balance, lower extremity strength assessment, special tests, and running analysis from both the research “gold standard” as well as the clinically feasible perspective with a particular focus on running.
Note: Fall semester only
Physics (PHYS)

PHYS 1. Physical Reasoning and Calculation. 2 Units
Term Typically Offered: Fall, Spring

Introduction to the analytical skills needed for the study of Physics. The focus is to prepare students to take PHYS 11A, however, PHYS 1 is also suitable as preparation for PHYS 5A. Emphasis is on reasoning and problem-solving, including conceptualization, visualization, and interpretation of written descriptions of physical situations, and on the connection of physical laws to the mathematical techniques used in their solution.

PHYS 2. Topics in Elementary Physics. 4 Units
Prerequisite(s): A recent one year course in high school algebra and one year of plane geometry or a college course in algebra (MATH 9).
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

One semester introductory physics course including a laboratory. Covers the fundamental concepts of physics with an emphasis on everyday life situations and applications. The range of material includes mechanics, waves, electricity and optics. One hour lecture, two hour discussion, and a three hour laboratory session.

PHYS 5A. General Physics: Mechanics, Heat, Sound. 4 Units
Prerequisite(s): Recently completed three years of high school algebra and geometry; and a college course in algebra and trigonometry (MATH 9 recommended) for those having an inadequate mathematics background.
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

The PHYS 5A-B sequence is a two-semester course in introductory physics in which fundamental concepts are emphasized including some physiological applications. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 5B. General Physics: Light, Electricity and Magnetism, Modern Physics. 4 Units
Prerequisite(s): PHYS 5A or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Lecture two hours; discussion one hour; laboratory three hours.

PHYS 10. Physics In Our World. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Introductory course designed for non-science students completing general education requirements. Students will be introduced to basic concepts in Physics through the study of astronomy, atomic nature of matter, electromagnetic waves, energy, sound and earthquake waves, current electricity, magnetism, and nuclear processes. Development of reasoning and quantitative skills and applying them to scientific and technological topics of current importance will be emphasized.

PHYS 10L. Physics In Our World Laboratory. 1 Unit
Prerequisite(s): PHYS 10; may be taken concurrently.
Term Typically Offered: Fall, Spring

Laboratory course complements PHYS 10 and satisfies the general education science lab requirement. Emphasis is placed on the nature of scientific observation and measurement and their relationship to general physical concepts. Students will be given a concrete, hands-on sense of observing and interpreting data from a variety of experimental environments.

PHYS 11A. General Physics: Mechanics. 4 Units
Prerequisite(s): MATH 30, MATH 31; or equivalent certificated high school courses. MATH 31 may be taken concurrently.
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

PHYS 11 A, B, and C is a three semester course in introductory physics requiring elementary calculus. This course satisfies the lower division physics requirement for a major in physics, chemistry, geology, or engineering. PHYS 11A covers the basics of classical mechanics, including kinematics, Newton's laws, conservation laws and rotational dynamics. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 11B. General Physics: Heat, Light, Sound, Modern Physics. 4 Units
Prerequisite(s): PHYS 11C.
Term Typically Offered: Fall, Spring

PHYS 11 A, B, and C is a three semester course in introductory physics requiring elementary calculus. This course satisfies the lower division physics requirement for a major in physics, chemistry, geology, or engineering. PHYS 11B covers the basics of thermodynamics, light propagation, sound, and an introduction to modern physics. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 11C. General Physics: Electricity and Magnetism. 4 Units
Prerequisite(s): MATH 31, PHYS 11A.
Term Typically Offered: Fall, Spring, Summer

PHYS 11 A, B, and C is a three semester course in introductory physics requiring elementary calculus. This course satisfies the lower division physics requirement for a major in physics, chemistry, geology, or engineering. PHYS 11C covers the basics of electricity and magnetism. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 30. Science and Pseudoscience. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Examination of the methodology of science. Comparison of legitimate investigations with others that do not meet high scientific standards, including both science poorly done and nonsense posing as science. Examples will be drawn primarily from the physical sciences. Analyzes will require study of basic skills of reasoning, types of logical argument, structure and validity of arguments, common reasoning fallacies, critical evaluation of evidence, and understanding of the scientific thinking process.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 99</td>
<td>Special Problems.</td>
<td>1 - 3 Units</td>
<td>Fall, Spring</td>
<td></td>
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<tr>
<td>PHYS 105</td>
<td>Mathematical Methods in Physics.</td>
<td>3 Units</td>
<td>Fall only</td>
<td>MATH 32, MATH 45, PHYS 11A, PHYS 11B, PHYS 11C or PHYS 5A, PHYS 5B.</td>
</tr>
<tr>
<td>PHYS 106</td>
<td>Introduction to Modern Physics.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>PHYS 11A, PHYS 11B, PHYS 11C or PHYS 5A, PHYS 5B.</td>
</tr>
<tr>
<td>PHYS 107</td>
<td>Conceptual Physics and Scientific Inquiry.</td>
<td>4 Units</td>
<td>Fall, Spring</td>
<td>BIO 7, CHEM 106, GEOL 8, MATH 17.</td>
</tr>
<tr>
<td>PHYS 110</td>
<td>Classical Mechanics.</td>
<td>3 Units</td>
<td>Spring only</td>
<td>MATH 45, PHYS 11C, PHYS 105.</td>
</tr>
<tr>
<td>PHYS 115</td>
<td>Electronics and Instrumentation.</td>
<td>4 Units</td>
<td>Fall only</td>
<td>PHYS 11C or PHYS 5B with instructor permission.</td>
</tr>
<tr>
<td>PHYS 116</td>
<td>Advanced Electronics and Instrumentation.</td>
<td>3 Units</td>
<td>Spring only – even years</td>
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<tr>
<td>PHYS 124</td>
<td>Thermodynamics and Statistical Mechanics.</td>
<td>3 Units</td>
<td>Spring only</td>
<td>MATH 45, PHYS 11A, PHYS 11B, PHYS 11C.</td>
</tr>
<tr>
<td>PHYS 130</td>
<td>Acoustics.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>MATH 45, PHYS 11A, PHYS 11B, PHYS 11C.</td>
</tr>
<tr>
<td>PHYS 135</td>
<td>Electricity And Magnetism.</td>
<td>3 Units</td>
<td>Spring only</td>
<td>MATH 45, PHYS 11C, PHYS 105.</td>
</tr>
<tr>
<td>PHYS 136</td>
<td>Electrodynamics of Waves, Radiation, and Materials.</td>
<td>3 Units</td>
<td>Fall only</td>
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<tr>
<td>PHYS 142</td>
<td>Applied Solid State Physics.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td>MATH 45, PHYS 106.</td>
</tr>
<tr>
<td>PHYS 145</td>
<td>Optics.</td>
<td>3 Units</td>
<td>Spring only – even years</td>
<td>MATH 45, PHYS 11A, PHYS 11B, PHYS 11C.</td>
</tr>
</tbody>
</table>

All courses are offered as 3 Units unless otherwise noted.
PHYS 150. Quantum Mechanics. 3 Units
Prerequisite(s): MATH 45, PHYS 106, PHYS 110.
Term Typically Offered: Fall only

Foundations of wave mechanics, including wave packets, superposition, and the uncertainty principle. The Schroedinger equation and its relation to operators and eigenstates. Symmetric systems and conserved quantities. Introduction to matrix mechanics, spin, scattering, and perturbation theory.

PHYS 151. Advanced Modern Physics. 3 Units
Prerequisite(s): PHYS 150.
Term Typically Offered: Spring only

Structure of matter including basic elements of atoms, molecular, solid state, nuclear and particle physics. Topics will also include photon and electron gases, lasers, superconductivity, Bose-Einstein condensation and superfluidity.

PHYS 156. Classical and Statistical Mechanics. 3 Units
Prerequisite(s): PHYS 110, PHYS 124.
Term Typically Offered: Fall only


PHYS 162. Scientific Computing: Basic Methods. 3 Units
Prerequisite(s): MATH 26A or MATH 30 and PHYS 5A, or MATH 30 and PHYS 11A, or MATH 105A concurrently.
Term Typically Offered: Fall only

Basic methods and skills of applying computers to the solution of scientific problems. Numerical calculation methods, numbers and data, algebraic equations, rate processes, iterative techniques, approximation methods, statistical analysis and data fitting, relaxation methods, and use of software and other programming resources on the web. Practical experience emphasized throughout.

PHYS 163. Scientific Computing: Modeling, Simulation, and Visualization. 3 Units
Prerequisite(s): PHYS 162.
Term Typically Offered: Spring only

Application of computer modeling, simulation, and visualization to the solution of scientific problems. Projects drawn from various scientific disciplines will be used to develop the necessary skills, including a capstone project. Examples include projectile motion with air drag, time development of a biological population, chemical reactions with several reactants, and random walk and Monte Carlo methods. Practical experience emphasized throughout.

PHYS 164. Physics of Energy and the Environment. 3 Units
Prerequisite(s): Completion of GE Area B1
General Education Area/Graduation Requirement: Further Studies in Area B (B5)

Our society requires and consumes energy. In this course, students will gain an understanding of the wide variety of our energy sources and how the energy is generated, distributed, and stored. We will examine the large scale and small scale role that energy plays in society and the impact that energy policy and practices have on the environment.

PHYS 172. Biological Physics. 3 Units
Prerequisite(s): MATH 26A or MATH 30, PHYS 5A and PHYS 5B; or PHYS 11A and PHYS 11B and PHYS 11C.
Term Typically Offered: Fall only

Investigation of subcellular and cellular biological systems using the fundamentals of physics. Topics will include a quantitative treatment of: the role of forces and energy in biology; thermodynamics of living systems; biopolymer, cytoskeletal and cellular mechanics; the physics of molecular motors and intracellular transport; applications of physical tools to study biological systems. Focus is on the interplay between physics and biology, and on how physical properties determine the biological function and behavior of living systems.

Note: PHYS 11B or PHYS 5B may be taken concurrently with instructors consent; no biology coursework is required, though some knowledge of cell biology is helpful, and it is recommended that students consider taking a lower-division college course in biology prior to enrollment.

PHYS 175. Advanced Physics Laboratory. 2 Units
Prerequisite(s): 12 units of upper division physics, including PHYS 106 and either PHYS 115 or PHYS 145 and a satisfaction of the Advanced Writing requirement.
Term Typically Offered: Fall, Spring

Advanced experiments chosen from several of the major areas of physics, performed usually on an individual basis. Laboratory six hours.

PHYS 181. Modern Physics for Everyone. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)

A conceptual course in the topics of modern physics including Quantum Mechanics, Special Relativity, and other contemporary topics for a general audience. This course meets General Education Area B5 (Further Studies in Physical Science, Life Forms, and Quantitative Reasoning) and satisfies the upper-division Area B requirement.

PHYS 182. Physics of Sports. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Further Studies in Area B (BS)

Term Typically Offered: Fall, Spring

A conceptual course in the application of the laws of physics in the context of sport. Focusing mainly on classical physics, we will cover topics such as force, energy, momentum, collisions, pressure, and fluids to explain what we see on the court, field, pool, and road. This course meets General Education Area B5 (Further Studies in Physical Science, Life Forms, and Quantitative Reasoning) and satisfies the upper-division Area B requirement.

PHYS 184. Physics of Energy and the Environment. 3 Units
Prerequisite(s): Completion of GE Area B1
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Our society requires and consumes energy. In this course, students will gain an understanding of the wide variety of our energy sources and how the energy is generated, distributed, and stored. We will examine the large scale and small scale role that energy plays in society and the impact that energy policy and practices have on the environment.
PHYS 186.  Musical Acoustics: Science and Sound.  3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring
Physical principles of vibration and wave motion, with illustrations involving musical instruments and concert hall acoustics; principles of electronic synthesis, recording, and reproduction of sound; operation of the human ear and brain in receiving and analyzing sound; relation of the harmonic series to sound quality, harmony and scales; proper roles for science in explaining music as an artistic activity.
Note: No technical background required; course cannot be used to meet Physics BS program requirements. It is recommended that student have already completed their B1 and B4 requirement prior to enrollment. Some experience with music is also helpful.

PHYS 187.  Seeing the Light.  3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only
An extensive study of light, mostly in the context of applications. Topics include basics of light and natural phenomena, optics, color, light and energy (solar power), and holography; as well as more advanced topics such as wave/particle model of light, diffraction and polarization. The course will also cover optical instrumentation such as cameras, microscopes, telescopes, displays, and photoreceptors.

PHYS 190.  Physics Seminar.  1 - 2 Units
Term Typically Offered: Fall, Spring
Special lecture series on announced topics by local and visiting speakers, emphasizing current research developments, with related reading assignments.
Note: May be taken for credit in sequential semesters for a maximum of two units total.
Credit/No Credit

PHYS 191.  Senior Project.  1 - 2 Units
Prerequisite(s): Department chair permission.
Term Typically Offered: Fall, Spring
Research Project under faculty supervision. Project may consist of laboratory or theoretical research project, instrumentation/demonstration development, or literature research project. Projects require written and oral reports.
Note: May be taken for credit in sequential semesters for a maximum of four units total. Grade assigned upon completion of the project.

PHYS 194.  Physics Related Work Experience.  6 - 12 Units
Prerequisite(s): Upper-division status and Department Chair permission.
Term Typically Offered: Fall, Spring
Supervised employment in a physics or astronomy related company or agency. Placement is arranged through the department and the Cooperative Education Program office. Requires completion of a three-to-six month work assignment and a written report.
Note: PHYS 194 may not be used to meet major requirements in Physics; May be taken for credit in sequential semesters
Credit/No Credit

PHYS 195.  Teaching Internship.  1 - 2 Units
Prerequisite(s): Completion of all math and physics lower division courses for the B.A. in Physics. Approval from the Teacher Preparation Concentration Coordinator.
Term Typically Offered: Fall, Spring
Supervised teaching internship for high school physics class, or for one of the following courses: PHYS 2, 5A-B, 10, 11A-C, 107, or ASTR 4. The students will meet weekly with the faculty teaching this class, and with their supervisor or mentor to help prepare and teach the class.
Note: May be taken for credit in sequential semesters for a maximum of six units total.

PHYS 196.  Cooperative Education Program.  3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B6)
Term Typically Offered: Fall, Spring
May be taken for credit in sequential semesters for a maximum of six units total.

PHYS 197.  Laboratory Teaching Assistant.  1 - 2 Units
Prerequisite(s): Completion of all math and math lower division courses required for the B.A. in Physics. Completion of the same course in which the student will take this class with a grade higher than B and/or consent from the Teacher Preparation Concentration program coordinator.
Term Typically Offered: Fall only
Student will be a supervised laboratory teaching assistant for one of the following courses: PHYS 2, 5A-B, 10, 11A-C, 107, or ASTR 6. The student will meet weekly with the faculty teaching this class, and with their supervisor or mentor to help prepare and teach the laboratory.
Note: May be taken for credit in sequential semesters for a maximum of six units total.

PHYS 198.  Co-Curricular Activities.  1 - 3 Units
Term Typically Offered: Spring only
Students may provide special tutoring to students taking physics courses, participate in community oriented projects, assist in activity sessions for teacher training courses, or engage in activities related to the subject matter and concerns of the Physics and Astronomy Department. Up to 4 units may be taken.
Credit/No Credit

PHYS 199.  Special Problems.  1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading. Open only to students who appear competent to assume individual work on the approval of the instructor. Up to 4 units may be taken for grade.
Credit/No Credit

Political Science (POLS)

POLS 1.  Essentials Of Government.  3 Units
General Education Area/Graduation Requirement: GE AREA D, U.S. Constitution + California State & Local Govt
Term Typically Offered: F_S_S_W
Examines the U.S. Constitution, the U.S. system of governments and the ideas and values on which they are based. Fulfills state code requirements for U.S. Constitution and California State and Local Government. Students who believe they have a good fundamental knowledge of the institutions of American Government are encouraged to consider a designated upper division course to fulfill the state requirement.
POLS 1H.  Honors Government.  3 Units  
General Education Area/Graduation Requirement: GE AREA D, U.S. Constitution + California State & Local Govt  
Term Typically Offered: Fall, Spring  
Explores some of the most influential works of politics and political writing in American history, and challenges contemporary analysis of political institutions and processes. Examines the structure of the Constitution, issues of federalism, the growth of civil rights, and the processes of government, with a comparative element. Explores the unique characteristics of California state politics.  

POLS 10.  The Meaning of Government: An Introduction to Political Ideas.  3 Units  
General Education Area/Graduation Requirement: Humanities (Area C2)  
Term Typically Offered: Fall only  
Examination of the ideas of various authors about governing and being governed. Topics include: the scope and limits of freedom, the causes and characteristics of the state, the content of politics, the nature of authority, the problems of power and the duty to obey.  

POLS 21.  First Year Seminar: Becoming an Educated Person.  3 Units  
General Education Area/Graduation Requirement: Understanding Personal Development (E)  
Term Typically Offered: Fall, Spring  
Introduction to the meaning of higher education, the resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies, and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support. Units may not be applied toward Political Science, International Relations, or Political Science-Journalism majors, or Political Science minor.  

POLS 35.  World Politics.  3 Units  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall, Spring  
Basic introduction to global politics focusing on a broad range of issues and problems relating to conflict and cooperation among nations, and on similarities and differences among nations' governmental institutions, structures and processes.  

POLS 96.  California Constitution & Government.  1 Unit  
Prerequisite(s): Instructor approval required.  
Examines the California state constitution, the structure and role played by both the state government and local governments in California. Students who pass the course will petition the Dean of Undergraduate Studies for credit in meeting the California Government portion of the American Institution requirement.  
Note: Experimental course.  
Credit/No Credit  

POLS 100.  Introduction to Research Methods in Political Science.  3 Units  
Term Typically Offered: Fall, Spring  
Examines the foundations of scientific research methodology in political and social science. Designed to introduce students to the basic conceptual, observational and analytical methods of empirical research in political science and related social sciences.  

POLS 102.  Quantitative Reasoning in Political Science.  3 Units  
General Education Area/Graduation Requirement: Further Studies in Area B (B5)  
Term Typically Offered: Fall only  
Exploration and applications of analytical reasoning to topics and issues in political science. Focuses on the quantitative aspects of political behavior, interactions, and institutions. Topics may include electoral systems, rational choice, models of voting, polling, redistricting, and game theory.  

POLS 110.  Political Thought I.  3 Units  
Term Typically Offered: Fall, Spring  
History of political theory, covering some important thinkers and topics during the Ancient, Medieval and Early Modern periods.  

POLS 111.  Political Thought II.  3 Units  
Term Typically Offered: Fall, Spring  
History of political theory, covering some important thinkers and topics from the Early Modern period to the early 20th century.  

POLS 112.  Current Political Thought.  3 Units  
Term Typically Offered: Fall, Spring  
Current issues in political thought, with emphasis upon developments in the political philosophies of democracy, fascism, communism, conservatism, liberalism. Ideas are analyzed with reference to assumptions on which they are based and their relevance for political institutions and problems.  

POLS 113.  American Political Thought.  3 Units  
General Education Area/Graduation Requirement: U.S. Constitution + California State & Local Govt, GE AREA D  
Term Typically Offered: Fall, Spring  
Assessment of ideas that are central to the development of an American political tradition, as those ideas influence government at the federal, state and local levels. Meets the state requirements in U.S. Constitution and California State and Local Government.  

POLS 115.  Democratic Theory.  3 Units  
Term Typically Offered: Spring only  
Introduction to basic questions of democracy. Draws on classical and contemporary writings to explore what democracy means and various forms of democratic government, politics, and culture: direct, representative, liberal, republican, pluralist, elitist. Specific topics may include: definitions of democracy, justifications for democracy, arguments for increasing or limiting democratic participation, tasks of political representatives, democratization of social institutions, and the relationship between globalization and democracy.  

POLS 117.  Black Political Thought.  3 Units  
Term Typically Offered: Spring only  
Systematically and analytically introduces the predominant political trends and concepts presently entertained and harbored in the Black Community. A necessary adjunct to this dialogue is the racist theme in American society since on balance this is the matrix out of which the political alternatives and concepts grew. Cross Listed: ETHN 117; only one may be counted for credit.
POLS 118. Just War, Natural Right, and the Law of Nations.  3 Units
Term Typically Offered: Fall only
Examines fundamental conceptual questions about morality, law, and international relations through great works of political theory. Topics will cover natural right, sovereignty, just war, imperialism, national security, and international obligations. Authors read will include Thucydides, Aristotle, Aquinas, Machiavelli, Grotius, Montesquieu, Kant, Hegel, Marx, Mill and Nietzsche.

POLS 119A. Socialism Marxism-Communism.  3 Units
Term Typically Offered: Fall only
Analyzes the basic writings and ideas of Socialist and Marxist writers and the implications of their ideas.

POLS 119B. Greek Political Thought.  3 Units
Term Typically Offered: Fall only
Study of the political thought of Greece from Homer to Demosthenes, including Plato, Thucydides, Sophocles, and other Greek thinkers. Topics include the birth of democracy, the sciences and philosophy. Athens’ rise to prominence, its defense of freedom against Persia, and its own development of an empire. Examination of Greek thoughts about justice, authority, freedom, equality, and culture. The events that shaped ideas and ideas that shaped events, as well as our understanding of the modern world, will be covered.

POLS 119D. Shaping of the Modern World.  3 Units
Term Typically Offered: Spring only
This course examines major problems that have shaped the modern world, the historical and intellectual roots of the modern world, and debates over the meaning of modernity. Considers how both advocates and critics of modernity have understood the relation of history, philosophy, politics, nature, religion, economics, and other key concepts. Specific topics may include: the development of modern science, technological progress, democratic institutions, capitalism, colonialism, secularization, religious tolerance, and individual freedom.

POLS 120A. Constitutional Law.  3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring
Basic junior level course in Public Law. A study of leading decisions of the U.S. Supreme Court and other materials pertaining to the power of Congress, the President and the Judiciary; relations between states and nation; and civil rights. Considers such topics as the separation of powers, judicial review, Congress, and the President.

POLS 120B. Constitutional Rights and Liberties.  3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring
Basic junior level course in Public Law. A study of rights and immunities under the U.S. Constitution: examines leading decisions of the U.S. Supreme Court and other materials pertaining to freedom of expression, freedom of association, equality and due process of law.

POLS 121. American Legal History.  3 Units
Term Typically Offered: Fall only
Examines the interaction of law, society, and politics in America from the colonial period to the present with special emphasis on law as an arena of social and cultural conflict. Major topics include the development of the common law in early America; the law of slavery and its impact on constitutional development; the role of the law in defining controversies over race and gender; legal thought and education; and the role of the Supreme Court in 20th Century America. Cross Listed: HIST 180; only one may be counted for credit.

POLS 122. The Law and Bureaucracy.  3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Not offered
Examines constitutional and statutory limits of bureaucratic power in the American political system.

POLS 123. Elements Of Law.  3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only
Current legal thought in the U.S. with special emphasis on the relationship of law to history, economics, anthropology, and government; the nature of law; the role of legislators, lawyers, and judges in making the legal system.

POLS 126. Politics and Lawyers.  3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring
Examines and analyzes the pervasiveness of lawyers and their activities in political realities; what do lawyers do; politics of prosecution and defense; politics within the profession; professional mobility; politics of the judiciary; lawyers in government.

POLS 127. International Law.  3 Units
Term Typically Offered: Spring only
This course links both theoretical and practical aspects of international law and international relations, from the traditional law of nations to individual subjects, jurisdictions, and immunities. The course surveys topics such as genocide, human rights, immigration, the use of force, international courts and tribunals, the environment, and the law of the sea, using illustrative court cases, treaties, and customs that establish important precedents in international law.

POLS 128. Environment and the Law.  3 Units
Term Typically Offered: Spring only
Introduction to environmental law, including: the evolution of environmental legislation, environmental issues in the court system, environmental regulation and administrative law and environmental torts. Emphasis is on understanding legal process and the special challenges environmental problems present to the legal system. Cross Listed: ENVS 128; only one may be counted for credit.

POLS 130. International Politics.  3 Units
Term Typically Offered: Fall, Spring
Basic junior-level course in International Relations. Current international tensions; the motivating forces influencing world politics; and the role of diplomacy and international organizations in resolving conflicts.
Hiroshima. The problem of international security in the Nuclear Age is also addressed.

**POLS 132. War and Peace in the Nuclear Age.**
3 Units

Examines human efforts to create supranational organizations to promote world peace and prosperity. The focus will be on social, political, and economic activities and problems which have developed and proliferated since the end of the second World War.

**POLS 133. American Defense and National Security.**
3 Units

Covers the discovery of atomic fission, the development of the atomic bomb and the evolution of U.S. nuclear weapons and strategy from 1945 to the present. It examines political, strategic, bureaucratic, economic and cultural forces that have shaped U.S. nuclear policy since Hiroshima. The problem of international security in the Nuclear Age is also addressed.

**POLS 134. War, Peace and the Mass Media.**
3 Units

Examines human efforts to create supranational organizations to promote world peace and prosperity. It focuses on social, political, and economic activities and problems which have developed and proliferated since the end of the second World War.

**POLS 135. American Foreign Policy.**
3 Units

Covers basic theoretical approaches; historical evolution of international economy; creation and role of international financial institutions; development issues; globalization and integration.

**POLS 136. International Political Economy.**
3 Units

This course examines the origins and evolution of the theory and practice of international development; considers the meaning of international development; examines theoretical models and approaches to understanding the conditions, effects, and processes of international development. It explores the history and current state of theories and approaches to international development and addresses contemporary and essential issues in the field.

**POLS 137. Nationalism.**
3 Units

This undergraduate seminar examines writings and other materials that analyze how race and racism, class and economic exploitation, gender and patriarchy, and intersectionality have influenced the theory and practice of international relations from the sixteenth through the twenty-first centuries.

Term Typically Offered: Spring only

**POLS 138. UN Simulation.**
3 Units

Examines human efforts to create supranational organizations to promote world peace and prosperity. It focuses on social, political, and economic activities and problems which have developed and proliferated since the end of the second World War.

Term Typically Offered: Fall, Spring

**POLS 138B. UN Simulation Practicum.**
3 Units

Prerequisite(s): POLS 138. Instructor permission only.

Term Typically Offered: Spring only

This course examines the origins and evolution of the theory and practice of international development; considers the meaning of international development; examines theoretical models and approaches to understanding the conditions, effects, and processes of international development. It explores the history and current state of theories and approaches to international development and addresses contemporary and essential issues in the field.

Term Typically Offered: Fall only – odd years

Prerequisite: An upper division course in the field and/or instructor permission.

**POLS 139A. Globalization.**
3 Units

Explores the nature of, and issues in, globalization. It does so in five parts. Part I examines alternative conceptions of globalization. Part II identifies and examines the primary forms of economic globalization. Part III considers globalization's effects on the territorial state, the welfare state, organized violence, culture, immigration, gender, and the environment. Part IV investigates the politics of the anti-globalization backlash. Part V concludes with an assessment of the shape and future of contemporary globalization.

Term Typically Offered: Fall only – even years

Prerequisite(s): GOVT 130 or Instructor Permission

**POLS 139B. International Politics and International Development.**
3 Units

This course examines the origins and evolution of the theory and practice of international development; considers the meaning of international development; examines theoretical models and approaches to understanding the conditions, effects, and processes of international development. It explores the history and current state of theories and approaches to international development and addresses contemporary and essential issues in the field.

Term Typically Offered: Fall only – even years

Prerequisite(s): GOVT 130 or Instructor Permission

**POLS 139C. Critical Writings in International Relations.**
3 Units

This undergraduate seminar examines writings and other materials that analyze how race and racism, class and economic exploitation, gender and patriarchy, and intersectionality have influenced the theory and practice of international relations from the sixteenth through the twenty-first centuries.

Term Typically Offered: Fall only – odd years

Prerequisite(s): POLS 130

Credit/No Credit

Prerequisite(s): GOVT 135 or GOVT 150

Term Typically Offered: Spring only

Prerequisite(s): GOVT 1 or GOVT 150

Term Typically Offered: Not offered

Prerequisite(s): GOVT 1 or GOVT 150

Term Typically Offered: Spring, Summer

Prerequisite(s): GOVT 1 or GOVT 150

Term Typically Offered: Fall only

Prerequisite(s): GOVT 1 or GOVT 150

Term Typically Offered: Fall, Spring

Prerequisite(s): GOVT 1 or GOVT 150

Term Typically Offered: Spring, Summer

Prerequisite(s): GOVT 1 or GOVT 150

Term Typically Offered: Spring only

Prerequisite(s): GOVT 1 or GOVT 150

Term Typically Offered: Spring only

Prerequisite(s): GOVT 1 or GOVT 150

Term Typically Offered: Fall only

Prerequisite(s): GOVT 1 or GOVT 150

Term Typically Offered: Fall only

Prerequisite(s): GOVT 130 or Instructor Permission

Term Typically Offered: Fall only
POLS 139G. Intelligence and Espionage. 3 Units
Term Typically Offered: Fall only

Involves students in the study of the field of intelligence, as it relates to national security, foreign policy, law and ethics. Comparative analysis of the practice and experience of the U.S., the former Soviet Union and other nations will be emphasized.

POLS 139S. Topics in Human Security. 3 Units
Term Typically Offered: Spring only

This course introduces students to the broad field of the study of human security and many essential current topics in that field, such as access to food and water, security against personal violence, and economic security. Students will examine how international forces and structural elements of society can endanger or ensure the security of groups and individuals within the borders of nation-states. Students will learn to research, analyze, and address the connections between international forces and their affects upon human beings around the world.

POLS 139E. International Conflict and Ethnicity. 3 Units
Term Typically Offered: Fall, Spring

This course examines the role of ethnicity or identity in violent and nonviolent international conflicts. This course traces the dynamics of violent and nonviolent conflicts around the globe from a comparative approach, and unpacks the role identity plays in the mobilization, strategies, and responses of the international community to these conflicts.

POLS 139. Government and Politics in Africa. 3 Units
Term Typically Offered: Spring only

Deals with the politics and governments of Africa. The most important themes concern precolonial African systems, colonialism, nationalism and nation-building. Previous exposure to African Studies is desired but not required.

POLS 140. Comparative Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Survey of the field of comparative government and politics including a review of historic uses of comparison in political science research but with emphasis on the methods of study and analytical means of research currently employed. The subject matter of study: national political systems of all types and the component parts of political systems will be an integral feature.

POLS 141. Politics of the African Diaspora. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall only

Examines the social, political, cultural, and economic factors which have been important to the African diaspora. Examines how African people have responded to those factors, both in terms of formal, political thought, and in terms of political movements and political institutions. Examines thought and practice, comparability to Africa, U.S., Caribbean, Central and South America. Cross Listed: ETHN 141; only one may be counted for credit.

POLS 142. Government and Politics in Africa. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only – even years

Survey of the governmental institutions and the political processes in the region, with emphasis on the problems of social change. Focuses on the colonial situation, the growth of nationalism, the revolution of rising expectations, Islamic political theory and its contemporary manifestations, the role of the military, and the current regional conflicts.
POLS 149A. Original Research in Comparative Politics. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X. POLS or IR majors or instructor consent only.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Students will engage in a cross-national research agenda. Students will conduct original research in comparative politics. Countries and topics acceptable for comparison will vary with instructor.

POLS 149R. Comparative Revolutions. 3 Units
Term Typically Offered: Fall, Spring

This course is primarily concerned with the causes, trajectories, and consequences of major revolutions and revolutionary movements of the 20th and 21st centuries. The course addresses the questions: what defines a revolution? What are the causes of revolutionary social change? Why do some revolutions fail to achieve their intended objectives and others succeed? How can political scientists investigate the possibility of objectively assessing revolutionary success or failure?

POLS 150. American Governments. 3 Units
General Education Area/Graduation Requirement: U.S. Constitution + California State & Local Govt, GE AREA D
Term Typically Offered: Fall, Spring, Summer

Federal system of government; the U.S. Constitution; legislative, executive, and judicial processes; political parties, interest groups, and the relationships and obligations of citizens to their government(s). Fulfills the California state graduation and credential requirements for U.S. Constitution and California State and Local Government. May be substituted for GOVT 1, but may not be used as an elective toward the major.

POLS 151. Bureaucracy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Not offered

Evaluation of the role and background of a professionalized bureaucracy with references to American national, state and local administrative systems as well as non-American administrative systems.

POLS 152. Political Psychology. 3 Units
Term Typically Offered: Fall, Spring

Examines the ways in which political behavior is shaped by individual beliefs, personalities, cognitive patterns, biases, and other psychological mechanisms. Students will engage with a wide range of research on topics such as cognitive styles, personality, obedience, psychological roots of terrorism, the psychology of ideology, and the role of emotion in politics.
Cross Listed: PSYC 153

POLS 153. The American Presidency. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Spring only

Examines the development of the Presidency as an institution; sources and uses of presidential power in contemporary politics; the President’s relationship with Congress and the bureaucracy; and current issues relating to the office.

POLS 154. Political Parties in America. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Examination and analysis of American political parties. An exploration of the nature and functions of political parties including party organization, electorate, and government. Topics include the various historical party systems, the two-party system, elections, and campaign financing. Includes discussion of the presidential nominating process.

POLS 155. United States Congress. 3 Units
Term Typically Offered: Fall only

Analysis of the historical, political, and institutional factors which influence Congress in the United States. Explores the historical development and organization of the institution, the role of leadership and political parties, chamber differences, congressional elections, and the relationship with the executive branch. Examines the legislative process. Evaluates the nature of representation in contemporary society.

POLS 156. Interest Groups. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only – odd years

Examination and analysis of interest groups in American political systems. The nature, role, formation, organization and activities of interest groups; how interest groups influence the public, political campaigns, public policy-making, and policy implementation. Representative interest groups will be studied.

POLS 157. Politics, Opinion, and Participation. 3 Units
Term Typically Offered: Fall, Spring

How we learn and change our political beliefs, including the influence of media, religion and social standing. The various forms of political participation; who participates and who doesn’t and why. The meaning and conduct of elections in the modern era.

POLS 158. Mass Media and American Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only

Focuses on the role the mass media plays in the political life of our democracy. Five primary topics are covered: the proper media role in a democracy; the relationship between the media, public opinion and agenda setting; the effects of media coverage on campaigns, elections, and voting; how elected officials influence and “spin” coverage; and the impact of media on policy-making. Students will develop critical analysis skills and emerge as more savvy media consumers and citizens.

POLS 159A. Campaigns and Elections. 3 Units
Term Typically Offered: Fall only – even years

Exploration of American campaigns and elections. Topics include the electoral process, voting behavior, the role of political parties, the media, interest groups, and candidate and campaign strategies. Focus will be on contemporary/current campaigns and elections.

POLS 159B. American Politics Seminar: Problems in Democratic Institutions. 3 Units
Term Typically Offered: Not offered

Examines the concept of representation and how it functions in the U.S. Congress and in state legislatures. In the first section different meanings of representation are discussed. In the second section interactions between legislators and their constituents are explored. Finally, the tradeoffs to different designs of representative institutions are studied.
POLS 159D. Politics, Immigration, and Citizenship. 3 Units
Prerequisite(s): GOVT 1
Term Typically Offered: Fall, Spring

This course will provide an overview of the political discussions and decisions related to immigration and citizenship in the US. More specifically, this course examines: (1) key political and policy actors in the development of immigrant admissions and immigrant integration policies, (2) the nature and consequences of immigration at the national, state, and local levels, (3) evolving racial and ethnic relations in the US, (4) public opinion and immigration-immigrants participation in American political life, and (5) contemporary issues.

POLS 162. American Film and Culture in the Nuclear Age. 3 Units
Term Typically Offered: Fall only

Explores the impact of the revolutionary change represented by the atomic bomb on forms of cultural response and expression in America. Attempts to analyze the bomb-culture relationship by reviewing important films, television programs, novels, essays, music and poetry that revealed, and helped shape, the hopes and anxieties that have characterized life in the nuclear age.

POLS 163. Introduction to Black Politics in the U.S. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

Examines historically and currently the political life of black people in the U.S. Emphasis on understanding underlying conditions.

POLS 164. History of American Capitalism. 3 Units
Term Typically Offered: Spring only

Traces the development of the relationship between business and government in the U.S., especially in relation to state and federal regulations of those industries. Examines how individual entrepreneurs and regulators have contributed to the development of the modern American political economy.

Cross Listed: HIST 164; only one may be counted for credit.

POLS 165. Politics of the Underrepresented. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150; and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

Examines the phenomenon of political underrepresentation in the U.S.A. It will identify significant affected groupings, examine the conditions which have resulted in such underrepresentation, evaluate the effects of underrepresentation on the lives of affected groups, and consider relevant political strategies. Emphasis on particular groups may vary with instructor.

POLS 166. Gender and Politics. 3 Units
Term Typically Offered: Spring only

This course examines the influence of socially constructed meanings of femininity and masculinity on the political participation of women, candidate selection, election campaigns, and electoral outcomes in executive and legislative offices in the U.S. and worldwide. Students will develop a rich understanding of the relationship between gender and women’s political representation and analyze and discuss institutional, structural, cultural, and historical conditions associated with women’s voting behavior, political advancement, leadership styles, and impacts of political representation on women.

POLS 167. American Political Development. 3 Units
Term Typically Offered: Fall only

Focuses on key transformative sequences in American political history and their consequences. Topics include the nature of American political culture and its role in shaping U.S. political institutions and public policy; the process of government growth or “state building”; the role of political institutions in channeling societal demands and influencing public policy; the nature of American party systems or “regimes” and the electoral “realignments” that link them; and connections between long-term economic and political cycles.

POLS 168. LGBTQ Politics. 3 Units
Term Typically Offered: Fall, Spring

This course provides an in-depth examination of the politics and history of the lesbian, gay, bisexual, transgender, and queer (LGBTQ) communities in the United States. Particular emphasis will be placed on current American political issues impacting the LGBTQ community.

POLS 169A. Science, Technology, and Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Social and political dimensions of science and technology. Examines how science and technology both shape politics and are shaped by politics. Considers the role of scientific advisors in government and society; dilemmas of expert authority and bias; relations between experts and non-experts; science and technology in popular culture; science and technology policy; implications of emerging technologies such as genetic engineering and the Internet for civil rights, moral values, and democracy.

POLS 169D. Latino/a Politics. 3 Units
Prerequisite(s): GOVT 1
Term Typically Offered: Fall, Spring

Systematically and analytically examines the predominant political trends, concepts, and policies presently impacting Latino/a communities. Includes such topics as an examination of Latino/a identity, immigration and citizenship, political organization and participation, and relationships with other minority groups in the United States.

POLS 170. Public Policy Development. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150 and GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Examines the policy development process in the U.S. by exploring the ideological predispositions of the American public, the analytical approaches applied to policy development and assessment, and the institutional and political environment in which policy is made. Typically, the understanding derived from this examination is applied to several policy issues of current interest.
POLS 171. Environmental Politics and Policy. 3 Units
Term Typically Offered: Spring only
Politics of human interaction with land, air and water. Political analysis of agenda setting, policy formation and administration (national, state, and local) of environmental programs. Focus on contemporary issues such as energy alternatives, management of toxics, land development, and pollution control. Cross Listed: ENVS 171; only one may be counted for credit.

POLS 180. California State and Local Government. 3 Units
General Education Area/Graduation Requirement: California State & Local Government, GE AREA D
Term Typically Offered: Fall, Spring, Summer
California state, city and county politics and government. Comparisons with governments in other states. Meets State requirements in California State and Local Governments. Permits students who have fulfilled U.S. Constitution requirement in another state to meet graduation requirements for California State and Local Governments.

POLS 181. Comparative State Government. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150.
Term Typically Offered: Spring only
Examines the political diversity of the fifty states, with special attention paid to variations in state governing institutions. Topics covered include legislatures, governors, judicialities, political parties, interest groups, elections, direct democracy, and state budget procedures.

POLS 182A. Sem Calif Govt+Politics. 3 Units
Term Typically Offered: Spring only
Open to selected students from each of the 20 CSU campuses, the Sacramento Semester program provides students with an opportunity to spend the semester studying and working directly in California State government. Participating students work as interns at the State Capitol for 25 or more hours each week. Interns are placed in legislators’ offices, with legislative committees, party caucuses, lobbyists and interest groups, or in various executive, administrative, and judicial agencies. In addition to the internships, students participate in an academic seminar, California Government and Politics. The seminars frequently include as resource persons individuals who work in key policy-making positions in the state government.

POLS 182B. Sem Calif Govt+Politics. 3 Units
Term Typically Offered: Spring only
Open to selected students from each of the 20 CSU campuses, the Sacramento Semester program provides students with an opportunity to spend the semester studying and working directly in California State government. Participating students work as interns at the State Capitol for 25 or more hours each week. Interns are placed in legislators’ offices, with legislative committees, party caucuses, lobbyists and interest groups, or in various executive, administrative, and judicial agencies. In addition to the internships, students participate in an academic seminar, California Government and Politics. The seminars frequently include as resource persons individuals who work in key policy-making positions in the state government.

POLS 184. Introduction to Urban Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only
Problems of urban areas and proposed solutions; politics and government. May be offered as lecture-discussion class or as a seminar. Field study may be required.

POLS 195A. Internship. 1 - 6 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W. Minimum GPA of 2.5 (both in the major and overall).
Term Typically Offered: Fall, Spring, Summer
Credit/No Credit

POLS 195B. Internship Sacramento Semester. 1 - 6 Units
Prerequisite(s): Minimum GPA of 2.5 (both in the major and overall).
Term Typically Offered: Spring only
Credit/No Credit

POLS 195D. Internship - Washington DC. 6 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring
Credit/No Credit

POLS 198A. Odyssey Peer Advisers. 1 - 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring
Provides individualized learning opportunities (1-3 units per semester) for engaging in peer advising along with elective activities such as tutoring, assisting faculty with research, event planning and other activities of a comparable nature. Students should be upper division students or graduate students. The units may not be applied towards unit requirement of the Government major, Government IR and Government/ Journalism.
Note: This course may be repeated up to a total of six units.
Credit/No Credit

POLS 198B. Peer Advising by Odyssey. 1 Unit
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring
Provides opportunity for lower division students, students on probation, and newly declared majors to be mentored by more advanced upper division students or graduate students. This peer advising will help students meet academic deadlines, achieve academic success, become engaged in campus activities and integrated into the Government Department. Units may not be applied towards unit requirement of the Government major, Government IR and Government/Journalism.
Note: This course may be repeated one time only for unit credit.
Credit/No Credit

POLS 199. Independent Studies. 1 - 3 Units
Prerequisite(s): GOVT 1 or equivalent, and nine units upper division government courses.
Term Typically Offered: Fall, Spring
Permits a student to pursue study and research in an area not otherwise available through the regular curriculum. Open only to upper division Government majors with at least a 3.0 GPA in the major.
Credit/No Credit
POLS 200.  Method and Scope in Political Science.  3 Units
Prerequisite(s):  STAT 1 or its equivalent.
Term Typically Offered:  Fall, Spring

Introduction to the philosophy of science, and the scope and methods of empirical research in political, social and policy science. In the area of philosophy of science, focuses on the logic of scientific inquiry, theory testing and confirmation and causal explanation. In the area of scope and methods, critically examines the scientific merits of several competing approaches to the study of politics and policy, as well as some of the major methodological controversies and debates in the literature.

POLS 201.  Writing in Political Science.  3 Units
Term Typically Offered:  Fall, Spring

A graduate-level seminar which introduces students to the research and literature in major fields in political science. Explores the norms of writing across the political science discipline, including for example: formal academic writing, policy writing, persuasive advocacy writing, methodological writing, and peer review. Broadly examines the literature from International Relations, Comparative Politics, American Politics, Political Theory, and Methods.

POLS 210.  Political Theory.  3 Units
Prerequisite(s):  An upper division course in the field and/or instructor permission.
Term Typically Offered:  Fall, Spring

Historical and social roots, democratic or authoritarian ideologies; the conflict of ideologies; philosophic approaches.
Note: May be repeated for credit with permission of Graduate Coordinator.

POLS 213.  Special Topics in American Political Thought.  3 Units
Term Typically Offered:  Fall, Spring

A class examining the historical and philosophical discourse in America on central topics of debate, such as the meaning of citizenship, civil society, democracy, federalism, religion, and civil rights open to both advanced undergraduates and graduate students.
Note: Undergraduates are strongly encouraged to have completed GOVT 113 or an equivalent course.

POLS 218.  Special Topics in International Political Thought.  3 Units
Term Typically Offered:  Fall, Spring

A class examining the philosophical underpinnings and the theatrical problems of central concepts and problems in international relations, including human rights, intercultural dialogue, problems of just war and international justice through a study of historical and contemporary texts open to both advanced undergraduates and graduate students.
Note: Undergraduates are strongly encouraged to have completed GOVT 118 or an equivalent course.

POLS 219.  Specialized Studies in Political Theory.  3 Units
Prerequisite(s):  Instructor permission.
Term Typically Offered:  Fall, Spring

Makes it possible for political theory students to deal with questions which theorists have asked, and to attempt to answer such questions for themselves.
Note: May be repeated for credit with permission of Graduate Coordinator.

POLS 230.  Theories of International Relations.  3 Units
Prerequisite(s):  Upper division course in the field and/or instructor permission.
Term Typically Offered:  Fall, Spring

Examination of the theory and practice of international relations including such subfields as international law, international organization, foreign policy and national security policy.
Note: May be repeated for credit with permission of Graduate Coordinator. Cross Listed: IA 210; only one may be counted for credit.

POLS 236.  Seminar in International Political Economy.  3 Units
Prerequisite(s):  An upper division course in the field and/or instructor permission.
Term Typically Offered:  Fall, Spring

This seminar is a graduate-level introduction to the theory and substance of international political economy (IPE). It examines the various theoretical approaches to IPE; considers the role of trade, money, and finance in the international political economy; analyzes the pattern and structure of global production, with an emphasis on multinational corporations; surveys international development issues, including Third World economic development strategies, the debt crises, structural adjustment, and economies in transition; and investigates the politics of globalization.
Cross Listed: IA 221; only one may be counted for credit.

POLS 239.  Globalization and International Relations.  3 Units
Prerequisite(s):  An upper division course in international relations or instructor permission.
Term Typically Offered:  Fall, Spring

Introduction to the theories and substance of globalization. It examines alternative theories of globalization; considers globalization's political impact on the territorial state, regionalism, the welfare state, the military, immigration, and the environment; investigates the politics of the anti-globalization backlash; and concludes with an assessment of the future political trends of globalization.
Cross Listed: IA 230; only one may be counted for credit.

POLS 240.  Comparative Government and Politics.  3 Units
Prerequisite(s):  Advanced course in the field.
Term Typically Offered:  Fall, Spring

Advanced study of some of the world's governmental and political systems. May focus on single countries, groups of countries or general categories of systems. Considers theoretical concept and methodology.
Note: May be repeated for credit with permission of Graduate Coordinator. Cross Listed: IA 222; only one may be counted for credit.

POLS 249A.  Middle East Politics and the United States.  3 Units
Prerequisite(s):  Instructor permission.
Term Typically Offered:  Fall, Spring

Graduate introduction to politics and governments of the Middle East and the impact of the United States foreign policy in the region. Relies on a comparative frame to tease out the causes of intrastate and interstate conflicts in the region, as well as the effects of the American foreign policy on the contemporary political trends in the Middle East, including those relating to the Arab-Israeli conflict, Islamic political resurgence, and terrorism.
POLS 250. Basic Issues of American Government. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring
Exploration in-depth of topics such as federalism, executive-legislative relationships, problems of representation, government reorganization, congressional reform, the electoral process.
Note: May be repeated for credit with permission of Graduate Coordinator.

POLS 270. Political Behavior and Political Processes: California and Beyond. 3 Units
Term Typically Offered: Fall, Spring
Course will explore public opinion, voting behavior, representation and political psychology with special focus on California.
Note: Undergraduates may take the course with instructor permission.

POLS 280. California Politics. 3 Units
Term Typically Offered: Fall, Spring
Advanced study of California's state and local governments, with emphasis on political history, political institutions, and the role of direct democracy on the state's government, budget and politics. Demographic and geographic elements will be scrutinized through a political focus. California's policy and political process will also be examined, as well as discussion of various political reforms.
Note: Undergraduates may take the course with instructor permission.
Prerequisite

POLS 281. Comparative State Government. 3 Units
Term Typically Offered: Fall, Spring
Examines state political institutions and processes. Special attention will be paid to how the political variation among the states shapes processes and outcomes. Topics covered will include governors, legislatures, interest groups, public opinion, political parties, and elections.

POLS 284. Urban Politics. 3 Units
Term Typically Offered: Fall, Spring
In-depth exploration of the socio-economic problems of urban and metropolitan areas and an evaluation of proposed political and governmental solutions.
Note: May be repeated for credit with permission of Graduate Coordinator. Cross Listed: PPA 284; only one may be counted for credit.

POLS 293A. Senate Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring
Critical analysis and examination of the operation of the State Capitol and the larger political environment of political parties, interest groups, and public opinion.
Note: Open only to students admitted to the California Senate Fellows Program.

POLS 293B. Senate Fellows Policy Seminar. 3 Units
Term Typically Offered: Fall, Spring
Seminar will analyze procedural issues and public policy questions within the State Senate, legislature, and contemporary California politics.
Note: Open only to students admitted to the California Senate Fellows Program.

POLS 294A. Assembly Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring
Critical examination of state and local governmental institutions and processes. Seminar will impart an advanced understanding of the structures and processes of California's political institutions, government and legislature.
Note: Open only to students admitted to the Jesse M. Unruh Assembly Fellowship Program.

POLS 294B. Assembly Fellows Policy Seminar. 3 Units
Term Typically Offered: Fall, Spring
Seminar focuses on current California policy issues and the lawmaking process.
Note: Open only to students admitted to the Jesse M. Unruh Assembly Fellowship Program.

POLS 295. Government Internship. 1 - 6 Units
Term Typically Offered: Fall, Spring
Supervised work experience in an approved legislative or administrative office at some level of local or state government, or in a politically-related organization that is concerned with government. Supervision is provided by the faculty instructor and responsible officials in the work situation.
Note: Open to all graduate students, subject to instructor permission. No more than 3 units of GOVT 295 may be counted toward the Master's degree.
Credit/No Credit

POLS 299. Independent Study. 1 - 3 Units
Term Typically Offered: Fall, Spring
For advanced graduate students who have demonstrated their ability to carry on advanced, independent research. Permits a student to pursue study and research in an area not otherwise available through the regular curriculum. Student must be advanced to candidacy.
Credit/No Credit

POLS 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring
Should be taken after completion of all other requirements for the degree. Students may choose from the following options, which they must declare when they advance to candidacy: Thesis, Project, or Comprehensive Examination.

Psychology (PSYC)

PSYC 2. Introductory Psychology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Provides a general overview of theory and research concerning psychological processes at the basic, individual and social levels. Topics will include physiological psychology, comparative psychology, learning, motivation, sensation and perception, developmental psychology, personality, social psychology, maladaptive behavior, individual differences, and selected other topics. Requires three hours of participation as a research subject.
PSYC 4. Navigating Psychology: The Major and Careers. 1 Unit
Prerequisite(s): PSYC 2 and Psychology majors only.
Term Typically Offered: Fall, Spring

Covers requirements for the major and career options in psychology and related fields. Students learn to design plans of study to meet requirements for the major and enhance career objectives. Introduces career options in various areas such as academic psychology, applied behavior analysis, counseling and mental health, education, industrial-organizational psychology and related fields. Class activities clarify students’ career goals and develop skills for job seeking and graduate education. Requires participation as a research subject.
Credit/No Credit

PSYC 8. Methods of Psychology. 3 Units
Corequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Introduction to methods of the science of psychology. The topics include psychology as a way of knowing, the role of science in psychology, the nature of psychological research, research ethics, psychological literature and report writing, psychological measurement, and the design and analysis of case studies, survey research, field studies, correlational methods, and experimental methods. Requires three hours of participation as an experimental subject.

PSYC 9. Introductory Statistics for Psychology. 3 Units
Prerequisite(s): PSYC 2, may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to descriptive and inferential statistics as tools for evaluating data from Psychological research. Topics include: measures of central tendency, measures of variability, correlation and regression, sampling distributions, hypothesis testing procedures including t-tests and analysis of variance. Application of hand computation will be emphasized to include the interpretation and significance of the statistical findings.

PSYC 100. Cross-Cultural Psychology. 3 Units
Prerequisite(s): PSYC 2, PSYC majors only.
Corequisite(s): PSYC 8.
Term Typically Offered: Fall, Spring

Examination of similarities and differences in human behavior, cognition, and emotion across cultures. Empirical evidence from cross-cultural research in the various areas of psychology, including biological, clinical, cognitive, developmental, social, personality, and industrial/organizational psychology, is evaluated with the purpose of developing a global perspective on the psychological processes underlying human behavior, cognition, and emotion.

PSYC 101. Statistics for Psychology. 3 Units
Prerequisite(s): Passing score on ELM; PSYC 2, PSYC 4, PSYC 8. PSYC majors only. PSYC 4 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to descriptive and inferential statistics as tools for evaluating data from Psychological research. Topics include: measures of central tendency, measures of variability, correlation and regression, sampling distributions, hypothesis testing procedures including t-tests and analysis of variance, and selected other topics. Application of hand computation will be emphasized to include the interpretation and significance of the statistical findings.

PSYC 102. Advanced Methods and Statistics in Psychological Research. 4 Units
Prerequisite(s): PSYC 121; Psychology majors only.
Term Typically Offered: Fall, Spring

Plan and conduct projects using experimental, quasi-experimental and correlational methods. Evaluate published research and write proposals with attention to such issues as the reliability and validity of methods, the degree to which statistical assumptions are met, the adequacy of statistical power, and the internal and external validity of the project. Contemporary research design, measurement, and analysis techniques are examined, including the use of statistical software, for varieties of univariate and multivariate research designs. Lecture-discussion three hours; laboratory three hours.

PSYC 103. Perception. 3 Units
Prerequisite(s): PSYC 2, PSYC or CRJ majors only. PSYC 8 and PSYC 9 are recommended.
Term Typically Offered: Fall, Spring

Examination of how information about the outside world is sensed and how that information is organized and interpreted to form perceptions. Vision and audition will be primarily examined, along with some coverage of the other senses. Topics may include psychophysical methods, basic physiology and function of sensory systems, perception of color and form, motion, distance, auditory patterns, body and limb position, temperature, pain, perceptual constancies, attention, perceptual learning, adaptation, and perceptual development.

PSYC 104. Learning Theories. 3 Units
Prerequisite(s): PSYC 2, PSYC 8, PSYC 9, and PSYC majors only or instructor permission.
Term Typically Offered: Fall, Spring

Examination of classical and contemporary theories of learning, and a sampling of experimental findings which bear directly on the theories. Some attention is given to theory construction in psychology.

PSYC 105. Motivation. 3 Units
Prerequisite(s): PSYC 2; PSYC majors only or instructor permission.
Term Typically Offered: Fall, Spring

Study of theories and experimental findings related to basic processes in animal and human motivation.

PSYC 106. Organizational Psychology. 3 Units
Prerequisite(s): PSYC 121; Psychology majors only
Term Typically Offered: Fall, Spring

This course will provide an overview of the dynamics of human behavior in organizations, using the lens of psychological theory. Students will explore individual-, group-, and systems-level phenomena in organizations, with the overriding goal of understanding how to maximize performance, well-being, and satisfaction at work. Topics may include job attitudes, teams, organizational culture, individual differences, leadership, employee development, organizational change, occupational stress, fairness and diversity, and more.
PSYC 110. Cognitive Psychology. 3 Units
Prerequisite(s): PSYC 2; PSYC majors only. PSYC 8 and PSYC 9 are recommended.
Term Typically Offered: Fall, Spring
Examination of the basic concepts of cognitive psychology, including sensory storage, pattern recognition, attention, short-term memory, long-term memory, visual imagery, semantic memory structure, text processing, problem solving and decision-making. The relations among artificial intelligence, mental modeling, and the simulation of cognitive processes will also be explored.

PSYC 111. Foundations of Behavioral Neuroscience. 3 Units
Prerequisite(s): PSYC 2; PSYC majors and PSYC minors only. PSYC 8 and PSYC 9 are recommended.
Term Typically Offered: Fall, Spring
Introductory overview of the neurobiology of behavior. Emphasis is on the central and autonomic nervous systems and the endocrine system. Topics include physiological, biological and genetic factors involved in sensation and perception, motivation, learning and memory, emotion, social behavior, and mental disorders.

PSYC 115. Introduction to Neuroscience. 4 Units
Prerequisite(s): PSYC 2 and PSYC 8; PSYC or BIO majors only. PSYC 9 recommended.
Term Typically Offered: Spring only
Introduction to the structure and function of the nervous system including neuroanatomy, neurophysiology, and systems neuroscience. Lectures and readings emphasize the empirical questions, techniques and methods used in neuroscience research. Laboratory activities focus on nervous system structure and some of the specialized techniques used within the fields of cellular, systems, and behavioral neuroscience. Lecture-discussion three hours; laboratory three hours. Cross Listed: BIO 115; only one may be counted for credit.

PSYC 116. Animal Behavior. 3 Units
Prerequisite(s): PSYC 2; PSYC majors only or instructor permission.
Term Typically Offered: Fall, Spring
Basic principles of animal behavior including the genetic, evolutionary and ecological mechanisms underlying courtship, reproduction, aggression, territoriality, communication and parental behavior; applied aspects of animal behavior; innate or naturally occurring behavior patterns necessary for survival in the natural environment; physiological, social and acquired aspects of animal and, secondarily, human behavior.

PSYC 117. Drugs and Behavior. 3 Units
Prerequisite(s): PSYC majors only or instructor permission.
Term Typically Offered: Fall, Spring
Examination of the classification of psychoactive drugs and their mode of action. Covers effects of psychoactive drugs on central nervous system structure and function and on behavior; use, abuse, effects, and dangers of therapeutic and recreational drugs; motivational aspects of drug use, and methods for treating addiction.

PSYC 118. Cognitive Neuroscience. 3 Units
Prerequisite(s): PSYC 111 or PSYC 115 or PSYC 117 or BIO 132.
Term Typically Offered: Fall, Spring
Examines how the nervous system accomplishes cognitive functioning. Brain mechanisms of higher functions such as memory, attention, sensorimotor integration, decision making, and language will be covered.

PSYC 119. Human Factors Psychology. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring
Study of the scientific application of psychology and human performance to the design of products and complex systems. Applications of perception, cognition, and human physical limitations are covered, with an emphasis on understanding how they relate to design. Topics include perception, attention, decision making, memory, action, and how they related to areas such as product design, human-machine interaction, health and medicine, aviation and aerospace, ergonomics of the workplace, and designing for special populations.

PSYC 120. Psychological Testing and Measurement. 3 Units
Prerequisite(s): PSYC 8; PSYC 9; PSYC majors only.
Term Typically Offered: Fall, Spring
Overview of the history and applications of psychological tests and assessments, including measures of mental abilities, personality, interests, and attitudes. Principles of measurement including construction of tests and assessments, alternative formats, methods for administration and scoring, analyzing items and the reliability of scores, and evaluating evidence regarding the validity of score interpretations.

PSYC 121. Methods and Statistics in Psychological Research. 3 Units
Prerequisite(s): PSYC 4 (may be taken concurrently), PSYC 8, and PSYC 9; PSYC majors only.
Term Typically Offered: Fall, Spring
Project-based experience of Psychology. Study of scientific processes in research such as literature reviews; developing testable hypotheses; design; IRB review; data collection, analysis, and interpretation; critical analysis of studies; APA paper preparation; and issues in dissemination. Study of some advanced statistical processes such as factorial ANOVAs, planned and post hoc comparisons, and multiple regression. Study of statistical software programs used in the analysis of data.

PSYC 122. Qualitative Research in Psychology. 3 Units
Prerequisite(s): PSYC 121 and PSYC majors only.
Term Typically Offered: Fall, Spring
Examines the philosophy underpinning the use of qualitative research and the methods and analyses strategies used in qualitative research. Methods may include interviews, focus groups, participant observation, and behavioral observation. Analyses strategies may include grounded theorizing, negative case analyses, developing case studies, and content coding. Issues pertaining to data accuracy and consistency will be examined, and the researcher's role in interpreting results. Students will complete research projects involving the collection and/or analyses of qualitative data.

PSYC 123. Program Evaluation. 3 Units
Prerequisite(s): PSYC 8, PSYC 9, PSYC 100; psych majors only
Term Typically Offered: Fall, Spring, Summer
This course develops knowledge and skills in empirical research methods as applied to program evaluation. Students gain practice skills needed to assist community service providers, state agencies, and other organizations to evaluate and improve programs and interventions. Students design program evaluation proposals that utilize psychological research techniques to support organizational effectiveness. Students learn to tailor program evaluations to the mission of an organization or purpose of an intervention, such as the promotion of social justice, well-being, and/or other goals.
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<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
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<tr>
<td>PSYC 129.</td>
<td>Behavioral Research Methods.</td>
<td>3</td>
<td>PSYC 8, PSYC 9, and PSYC 171, PSYC majors only or ABA certificate students</td>
<td>Spring only</td>
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<td>PSYC 130.</td>
<td>Personality Theories.</td>
<td>3</td>
<td>PSYC 2.</td>
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<td>PSYC 134.</td>
<td>Psychology of Human Sexuality.</td>
<td>3</td>
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<td>PSYC 135.</td>
<td>Psychology of Multicultural Groups.</td>
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<td>Fall, Spring</td>
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<tr>
<td>PSYC 137.</td>
<td>Stress Management.</td>
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<tr>
<td>PSYC 142.</td>
<td>Community Psychology.</td>
<td>3</td>
<td>PSYC 121 and PSYC majors only.</td>
<td>Fall, Spring</td>
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<tr>
<td>PSYC 143.</td>
<td>Practicum in Community Psychology.</td>
<td>3</td>
<td>Junior or Senior standing, Psychology majors and/or Peace Corps Prep certificate only, and instructor permission obtained through approval of an application the semester prior.</td>
<td>Fall, Spring</td>
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<tr>
<td>PSYC 145.</td>
<td>Social Psychology.</td>
<td>3</td>
<td>PSYC 2.</td>
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<td>PSYC 148.</td>
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<td>3</td>
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<td>PSYC 149.</td>
<td>Psychology of Adolescence.</td>
<td>3</td>
<td>PSYC 2.</td>
<td>Fall, Spring</td>
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**General Education Area/Graduation Requirement:**
- PSYC 130: Personality Theories.
- PSYC 137: Stress Management.

**Prerequisites:**
- PSYC 121: Psychology majors only or ABA certificate students.
- PSYC 129: Spring only.
- PSYC 130: Fall, Spring.
- PSYC 134: Fall, Spring.
- PSYC 135: Fall, Spring.
- PSYC 137: Fall, Spring.
- PSYC 142: Fall, Spring.
- PSYC 143: Fall, Spring.
- PSYC 145: Fall, Spring.
- PSYC 148: Fall, Spring.
- PSYC 149: Fall, Spring.

**Course Descriptions:**


Covers evaluating and thinking critically about behavioral research (i.e., data collection, logic, designs). Topics include: comparing group and single-case designs; observational strategies and measuring inter-observer reliability; displaying and interpreting behavioral data; single-case experimental design including reversal, multiple-baseline, alternating treatments, changing-criterion, and combinatorial designs; research ethics; identifying characteristics of pseudoscience; and disseminating behavioral research. The versatility of single-case designs will be discussed by including a wide range of case examples from multiple disciplines in the social and behavioral sciences and education.

PSYC 130. Personality Theories.

Detailed examination of classic and contemporary personality theories such as those of Freud, Jung, Adler, Horney, Fromm, Skinner, Dollard and Miller, Rotter, Bandura, Kelly, Rogers, Maslow and May. Theories will be considered with respect to content, conceptual image of the individual, and current status.

PSYC 134. Psychology of Human Sexuality.

This course covers key theories and insights from the psychological study of human sexuality. It includes classic and contemporary research on human sexual behaviors, bodies, cognitions, and social identities. Course topics may include: social constructionism and essentialism, sexual and gender diversity, sexuality across the lifespan, relationships, attraction, sexual anatomy and physiology, and the history of sexology, among others.

PSYC 135. Psychology of Multicultural Groups.

Examines the role of culture, race, ethnicity, gender, and social class in human development and behavior within diverse cultural groups. Presents sociocultural and ecological perspectives on human development, i.e., that individuals must be understood in the context of his or her culturally patterned social relations, practices, institutions, and ideas. Explores psychological issues that pertain to the major ethnic minority groups in the U.S.

PSYC 137. Stress Management.

Examination of the causes and manifested effects of various stressors related to acculturation, socio-economic, physical, occupational, and psychological pressures. Techniques for recognizing and coping with stress will be explored. Emphasis is on the development of skills to handle commonly encountered stress-producing situations.

PSYC 142. Community Psychology.

This course is designed to introduce you to the field of community psychology, which is concerned with the scientific study of social problems through collaborative research. This course will provide you with ecological frameworks that aim to reduce social problems (e.g., poverty, mental illness and others) as well as core values of community well-being, empowerment, and collaboration. You will be exposed to prevention and intervention programs employed to solve social concerns as well as potential implications for practice and policy.

PSYC 143. Practicum in Community Psychology.

Classroom and on-site experience in community psychology. Students will complete 60 hours of service learning experience related to their community organization with supervision by authorized persons at the organization. Students will also attend class meetings to discuss the application of concepts in community psychology to their service learning experience. Topics include: ethics, structure and capacity of community organizations, working with diverse populations, and professional relationships.

**Note:** Enrolling in or completing PSYC 142 is preferred, but not required, and Seniors will be prioritized for enrollment before Juniors.

PSYC 145. Social Psychology.

Empirical examination of the emotion, behavior, and cognition of individuals in social situations. Topics can include: social psychology methods, social perception, social cognition, attitudes, persuasion, social identity, gender identity, prejudice and discrimination, interpersonal attraction, close relationships, conformity, compliance, obedience to authority, helping behavior, aggression, group processes, and social psychology applications. Multiple perspectives discussed.


Examination of behavioral and physiological development during the prenatal period, and behavioral, cognitive and social development during infancy and childhood. Theories, methods and empirical research will be studied.

PSYC 149. Psychology of Adolescence.

Growth and development during the adolescent period and the interrelationships between adolescents and their culture are studied. Physical, psychological, social and educational problems and their implications are considered.
PSYC 150. Psychological Aspects of Aging. 3 Units
**Prerequisite(s):** PSYC 2
**Term Typically Offered:** Fall, Spring

Developmental study of human aging emphasizing psychosocial, psychopathological, biological, intellectual and personality processes from a theoretical and research-oriented perspective. Influences including culture, gender, gender identity, race, ethnicity, sexual orientation, and socio-economic status on aging are examined.

PSYC 151. Psychological Aspects of Death and Dying. 3 Units
**Prerequisite(s):** Student's academic level must be Junior or higher to enroll in this class.
**Term Typically Offered:** Fall, Spring

Examination of the beliefs, attitudes, and behaviors associated with death and dying. Topics covered include children's and adults' concepts of dying and death; causes and types of death; self-destructive behavior; grief and mourning in the dying person and their survivors; physician aid in dying and other legal and ethical issues; and cross-cultural and historical perspectives on death.

Cross listed: GERO 124

PSYC 152. Psychological Aspects of Health, Wellness, and Illness. 3 Units
**Prerequisite(s):** PSYC 2 and PSYC 8.
**Term Typically Offered:** Fall, Spring

Examines social, psychological, and behavioral factors important for physical health and emotional well-being. Psychological perspectives are applied to such topics as behavioral medicine, health promotion and compromise, the stress-illness relationship, social relations, personality, emotions, chronic illness, death and dying, and health care provider and patient interactions. Explores the development of health problems and the causes of premature death, as well as research on how psychology can help people live longer, healthier lives.

PSYC 153. Political Psychology. 3 Units
**Term Typically Offered:** Fall, Spring

Examines the ways in which political behavior is shaped by individual beliefs, personalities, cognitive patterns, biases, and other psychological mechanisms. Students will engage with a wide range of research on topics such as cognitive styles, personality, obedience, psychological roots of terrorism, the psychology of ideology, and the role of emotion in politics.

Cross Listed: GOVT 152

PSYC 157. Psychology of Women. 3 Units
**Prerequisite(s):** PSYC 2 or instructor permission.
**Term Typically Offered:** Fall, Spring

Contemporary psychological theories and issues related to the psychology of women in America and globally. Psychological theories may include but are not limited to feminism, cognitive-behavioral, self-object relations, humanistic, social learning and existential. Issues may include development, sexuality, mental health, psychotherapy, physical health, education, work, violence against women, gender inequality, multicultural perspectives, aging, parenting, criminal behavior, politics, sexual slavery, reproductive rights, religion, spirituality, and the arts.

**Note:** A service course for WOMS.

PSYC 160. Psychology of Sexual Orientation and Gender Identity. 3 Units
**Prerequisite(s):** PSYC 2. Psychology major, Psychology minor, LGBTQ Studies minor, or Peace Corps Prep Certificate
**Term Typically Offered:** Fall, Spring

This course explores the landscape of contemporary psychological research on gender and sexual diversity with a focus on the identities and experiences of lesbian, gay, bisexual, transgender, queer, intersex, and asexual people and all sexual and gender minorities. Course topics include cissexism and heterosexism, identity development and disclosure, parenting, aging, intersectionality, and minority stress, among others.

PSYC 165. Evolutionary Psychology. 3 Units
**General Education Area/Graduation Requirement:** Further Studies in Area B (B5)
**Term Typically Offered:** Fall only

Examination of empirical literature on emotion, behavior, and cognition of individuals from an evolutionary perspective. Topics can include: scientific methods in evolutionary psychology, survival strategies, mating strategies, parenting, kinship, cooperation, altruism, aggression, sexual conflict, and social dominance.

PSYC 166. Psychology in Personnel Training and Development. 3 Units
**Prerequisite(s):** PSYC 2.
**Term Typically Offered:** Fall, Spring

Application of psychological principles to problems of personnel training and development; techniques for determining training requirements, motivating trainees, providing feedback on trainee performance, and ensuring positive transfer of training to the job situation; personnel development programs.

PSYC 167. Abnormal Psychology. 3 Units
**Prerequisite(s):** PSYC 2.
**Term Typically Offered:** Fall, Spring

Detailed consideration of behavior disorders and maladaptive behavior: theories of causation, descriptions of the disorders, and strategies of various therapies.

PSYC 168. Industrial Psychology. 3 Units
**Prerequisite(s):** PSYC 2, PSYC 8.
**Term Typically Offered:** Fall, Spring

Comprehensive overview of various human resources practices and policies, with an emphasis on people's psychological reactions to them. Topics include: recruitment, employee selection, training, employee compensation, legal aspects of employment decisions, and ethics in human resource management.

PSYC 171. Applied Behavior Analysis. 3 Units
**Prerequisite(s):** PSYC 2 and PSYC majors or posted Behavior Analysis Certificate only, or instructor permission.
**Term Typically Offered:** Fall, Spring, Summer

Introduction to theory, historical background, and philosophical assumptions relevant to behavior analysis with individuals. Lectures and laboratory activities in basic principles of behavior and methodology.
PSYC 177. Special Topics Capstone: Advanced Study in Psychology. 3 Units
Prerequisite(s): PSYC 4, 8, 9, must have Senior status to enroll in course.
Term Typically Offered: Fall, Spring, Summer
Examine a special topic of interest in psychology. Offered by rotating instructors, the capstone explores selected topics in psychology, and contemporary developments in theories, methodologies, and/or methods in the selected sub-discipline or topical area. Topics can include subject matter from all areas of psychology, including, but not limited to: applied behavior analysis, clinical, cognitive, community, cultural, developmental, experimental, feminist, health, industrial-organizational, neuroscience, perception, quantitative, social, etc., as well as related methodologies. Recommend prior coursework in area of focus.
Note: May be repeated for credit providing the topic and instructor are not the same.

PSYC 181. Experimental Analysis of Behavior. 4 Units
Prerequisite(s): PSYC 9, PSYC 171, and PSYC majors only.
Term Typically Offered: Fall only
Extensive analysis of single subject experimental research on intermittent reinforcement of behavior, including complex schedules, stimulus control, generalization, and verbal behavior. Lecture-discussion three hours; laboratory three hours; laboratory may include a component of self paced instruction.

PSYC 183. Teaching of Psychology. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring
Study of best practices in the Teaching of Psychology. Selected topics may include, course preparation, skills for fostering student learning, strategies for improving student writing, theories of assessment, using technology in the classroom, sensitivity to diversity, teaching special populations, and the ethical and legal issues faced in the classroom. Students attend scheduled seminars on course topics and course are mentored by a professor in the Department of Psychology (called Faculty Mentor/Sponsor).

PSYC 184. Clinical Issues in Applied Behavior Analysis. 4 Units
Prerequisite(s): PSYC 2 and PSYC 171, and PSYC majors or ABA Certificate students only
Term Typically Offered: Spring only
Extensive study of applied behavior analytic methods in the assessment, development, and implementation of treatment programs for a variety of clinical issues including pediatric behavior problems, developmental disabilities, hyperactivity, parent-child difficulties, school-related problems, behavioral safety, brain injury, and dementia. Lecture three hours; laboratory three hours.

PSYC 185. Psychology of Exceptional Children. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring
Examines characteristics, special needs, and problems of children who differ from the group norm because of their level of abilities, physical handicaps, or other deviations.

PSYC 190. History and Systems of Psychology. 3 Units
Prerequisite(s): PSYC 9 and PSYC majors only.
Term Typically Offered: Fall, Spring
Covers the development of the various schools and systems of psychology, and their philosophical roots, interrelationships and differences. Normally taught with a seminar or proseminar format.

PSYC 191. Ethics in Behavior Analysis. 3 Units
Prerequisite(s): PSYC 171
Term Typically Offered: Fall, Spring
Classroom experience in applied behavior analysis. Students will meet in class for three hours a week to present and review relevant literature. Emphasis will be placed on ethics and professional conduct in applied behavior analysis following the BACB Professional and Ethical Compliance Code for Behavior Analysts.

PSYC 194. Cooperative Research. 1 - 6 Units
Prerequisite(s): PSYC 2, PSYC 8, and PSYC 9. PSYC 121 recommended.
Term Typically Offered: Fall, Spring
Opportunity for dedicated students interested in graduate school or a career involving research to work cooperatively on a psychological research project under faculty supervision.
Note: May be repeated once for up to 6 units of credit.

PSYC 195A. Fieldwork in the Teaching of Psychology. 1 - 6 Units
Term Typically Offered: Fall, Spring
Supervised experience in various educational and instructionally related tasks, such as leading discussion groups, setting up and presenting demonstrations, constructing and scoring tests, and tutoring, at selected educational institutions in the Sacramento area.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.
Credit/No Credit

PSYC 195B. Fieldwork in Child Observation. 3 Units
Prerequisite(s): PSYC 148 or equivalent.
Term Typically Offered: Fall, Spring
Supervised observation of preschool children in a formal school setting.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.
Credit/No Credit

PSYC 195C. Fieldwork in Industrial and Organizational Psychology. 1 - 6 Units
Term Typically Offered: Fall, Spring
Supervised work experience at an appropriate level in business and governmental organizations.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.
Credit/No Credit
PSYC 195F. Fieldwork in Community Psychology. 1 - 4 Units
Term Typically Offered: Fall, Spring

Supervised experience in various community and governmental agencies, such as the Suicide Prevention Service, Planned Parenthood, and the California Youth Authority. The experience must be of an applied psychological nature, determined collectively by the agency, the supervising faculty member, and the student.

Note: Requires permission of instructor and the Department Chair. May be repeated once for credit and a third time if another agency is involved.

Credit/No Credit

PSYC 195G. Fieldwork. 1 - 6 Units
Term Typically Offered: Fall, Spring

Projects in contemporary areas of psychology under the supervision of one or more faculty.

Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 196S. Psychology of Religion. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Introduction to psychological aspects of religion, including its foundations, measurement, and research methods. Selected topic areas include: religious & spiritual development; religion and spirituality in neuroscience, cognitive psychology, emotion, personality, social psychology, and cross-cultural psychology; religion and spirituality in health, mental health, coping, and psychotherapy.

PSYC 196T. Black Psychology. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Examines the concepts, issues and theories related to the psychology of the African American experience. Through the exploration of topics related to the African American experience in the United States, including, but not limited to, African philosophy, the US Census, media representations, language, and political enfranchisement, the course utilizes an interdisciplinary approach to interrogate the cultural, historical, political, and social factors influencing Black identity in the US and the creation of Black Psychology.

PSYC 196U. Psychology of Happiness. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Examines the scientific study of human happiness from a psychological perspective that includes its foundations, measurement, research methods, theories, and recent advances in the literature. Explores the correlates, predictors, and consequences of happiness at the individual and cultural levels. Topics include benefits of being happy; the roles of age, gender, culture, genes, personality, life circumstances, income, health, and social relationships in happiness; cultural comparisons in happiness; and happiness interventions (i.e., how to increase and sustain happiness).

PSYC 197A. Advanced Research I. 1 - 4 Units
Prerequisite(s): PSYC 194 and permission of instructor and Department Chair. Graded; 1 - 4 units.
Term Typically Offered: Fall only

Advanced research opportunity for students who have completed previous research experiences in PSYC 194. Students in the course are expected to develop advanced skills in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 197B. Advanced Research II. 1 - 4 Units
Prerequisite(s): PSYC 197A and permission of instructor and Department Chair. Graded; 1 - 4 units.
Term Typically Offered: Fall, Spring

Advanced research opportunity for students who have completed previous research experiences in PSYC 197A. Students in the course are expected to demonstrate competence in advanced research skills in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 198A. Prospects for Success: Peer Mentee. 1 Unit
Term Typically Offered: Fall, Spring

Provide psychology majors with information and experiences necessary for developing academic goals, skills, and better understanding of the Psychology major. Weekly meetings with peer mentors to discuss topics that include academic planning, website navigation, preparation for meeting with professors, academic skills, student professionalism and resume/CV development.

Note: May be repeated for credit

Credit/No Credit

PSYC 198B. Prospects for Success: Peer Mentor. 2 - 3 Units
Prerequisite(s): PSYC 4 and permission from instructor
Term Typically Offered: Fall, Spring

Provide peer mentoring and advising to Psychology majors. Develop peer mentoring knowledge and skills through training and assigned readings. Peer mentors provide psychology majors with information and experiences necessary for developing academic goals, skills, and a better understanding of the Psychology major. Conduct weekly mentee meetings to discuss topics that include academic planning, website navigation, preparations for meetings with professors, academic skills, student professionalism and resume/CV development.

PSYC 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.

Note: Requires permission of instructor and the Department Chair.

Credit/No Credit
PSYC 200. Methods in Empirical Psychology. 3 Units
Prerequisite(s): PSYC 8, PSYC 101, PSYC 102.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Philosophy of science, critical thinking in the design of research studies, and professional issues. Topics include: nature of science; observational, experimental, and case study designs; formulating research questions; measurement strategies; scaling and coding; internal and external validity; naturalism in research; quasi-experiments; archival research; physical traces; data collection; interpreting results; program evaluation; professional writing; and ethics.

PSYC 202. Survey of Contemporary Statistical Methods in Psychological Research. 3 Units
Prerequisite(s): Graduate standing; PSYC 102 or equivalent
Term Typically Offered: Fall, Spring

Broad coverage of common univariate and multivariate designs and analyses used in contemporary psychological research. Primary focus is on providing the basic tools for carrying out the analyses in statistical software and interpreting the results, as well as understanding results presented in published research reports. Topics include various ANOVA and multiple regression models and applications including related categorical and multivariate alternatives, such as logistic regression analysis, discriminant function analysis, MANOVA, path analysis, factor analysis, canonical correlation analysis.

PSYC 204. Advanced Topics in Statistical Methods for Psychological Research. 3 Units
Prerequisite(s): PSYC 202
Term Typically Offered: Fall, Spring

Advanced treatment of selected research design and analysis methods of psychological research. Applications of the general and generalized linear models (e.g., multiple regression models, structural equation models, multilevel models, and limited dependent variable models) for a variety of research designs and data structures. Intermediate to advanced training in statistical software and data management. Focus is on understanding foundations and assumptions of the methods, understanding interrelationships between the methods, performing specialized and non-routine analyses when needed, and interpreting results in detail.

PSYC 205. Measurement Methods for Psychological Research and Practice. 3 Units
Prerequisite(s): PSYC 202
Term Typically Offered: Fall, Spring

Detailed coverage of classical and modern theories and models of psychological measurement, and their applications in research and professional testing settings. Primary focus is on principles of constructing and analyzing measures, including both paper-and-pencil tests/surveys and performance-based tests that require rater judgment in scoring. Measurement models include classical testing theory, generalizability theory, confirmatory factor analysis, Rasch measurement, and item response theory.

PSYC 206. Tests and Measurement. 3 Units
Prerequisite(s): Graduate standing and PSYC 102 or its equivalent.
Term Typically Offered: Fall, Spring

Examines the administration, interpretation, and application of psychological tests used by behavioral scientists in clinical, educational, organizational, and other settings. Test development, reliability and validity, and legal considerations will be discussed.

PSYC 209. Seminar in Systems of Psychology. 3 Units
Term Typically Offered: Fall, Spring

Historical review of the systems of thought which led to modern psychology. An examination of current psychological systems and their development. Factors that differentiate psychological systems will be studied.

PSYC 210. Theories of Personality. 3 Units
Prerequisite(s): PSYC 102 or equivalent; PSYC 102 may be taken concurrently.
Term Typically Offered: Fall, Spring

Study of the role of personality theory in the field of psychology, and an examination of the current theories.

PSYC 216. Current Literature in Personnel and Organizational Psychology. 3 Units
Prerequisite(s): Course work in Personnel and Organizational Psychology; PSYC 102 or its equivalent.
Term Typically Offered: Fall, Spring

Analyzes selected current articles on theory and research in such journals as the Journal of Applied Psychology, Personnel Psychology, and Organizational Dynamics, with written and oral critiques.

Note: May be repeated twice for credit.

PSYC 216A. Current Literature and Applications in Industrial-Organizational Psychology. 3 Units
Term Typically Offered: Fall only

Seminar to review current literature in selected organizational psychology topics, and develop proposals for applied research in industrial-organizational psychology. Literature focus will be centered on personal and interpersonal factors influencing the quality of work life and experiences of employees. Application focus will be centered on identifying organizational problems amenable to research, reviewing literature and common practices to identify potential solutions, designing a research methodology to address the problem and evaluate the solution, and writing research proposals including Human Subjects Review.

PSYC 216B. Current Literature and Applications in industrial-Organizational Psychology. 3 Units
Prerequisite(s): PSYC 216A
Term Typically Offered: Spring only

Seminar to discuss implementation of applied research proposals from the previous semester and review current literature in performance management and workforce planning systems. Application focus will be centered on understanding organizational contexts and constraints for implementing research, obtaining managerial and participant cooperation, maintaining methodological rigor in the field, systematically and objectively recording data, and preparing data for analysis. Literature focus will be centered on methods for measuring employee performance relative to objectives, understanding performance barriers, and identifying human resource needs.
### PSYC 217. Seminar in Social Psychology.
3 Units

**Prerequisite(s):** Graduate standing  
**Term Typically Offered:** Fall, Spring

Review of classic and contemporary theories and research in social psychology. Topics may include group dynamics, social influence, aggression, helping behavior, attitudes, dissonance and self-justification, prejudice, stereotyping, and discrimination; automaticity and social cognition, motivation, and gender. Emphasis upon the application of social psychological theories and research to social problems.

### PSYC 240. Seminar in Behavioral Neuroscience.
3 Units

**Prerequisite(s):** Graduate standing  
**Term Typically Offered:** Fall, Spring

Surveys the fundamental principles of Behavioral Neuroscience, the connection between the brain and behavior. Topics may include: neuroanatomy, electrochemical transmission, sites and mechanism of drug action, sensation and perception, motor systems, developmental processes, neuroendocrine systems, learning and memory, attention, emotion, executive function, neurodegenerative disease and the neurobiology of mental illness. Seminal experiments and recent discoveries within the field will be reviewed and discussed with a focus on how these findings impacted and continue to influence past and current theory.

### PSYC 241. Seminar in Cognitive Psychology.
3 Units

**Prerequisite(s):** Graduate standing  
**Term Typically Offered:** Fall, Spring

Provides a survey of topics in human information processing. Selected topics may include perception, attention, memory, knowledge, categorization, problem solving, reasoning, decision making, and language comprehension and production. Classical theories and experiments in these areas will be reviewed in addition to applications of this work to practical problems.

### PSYC 242. Seminar in Learning and Behavior.
3 Units

**Prerequisite(s):** Graduate standing  
**Term Typically Offered:** Fall, Spring

Surveys the area of Psychology concerned with how people and animals learn and how their behaviors are changed as a result of this learning. Selected topics include: Inmate behaviors, respondent and operant learning, behavioral economics, comparative cognition, theories of imitation, choice and self-control. Classical theories and current experiments in these areas will be reviewed in addition to implications of this work to practical problems.

### PSYC 251. Developmental Processes.
3 Units

**Prerequisite(s):** PSYC 148 or PSYC 149.  
**Term Typically Offered:** Fall, Spring

Study of the psychological processes underlying development throughout the life span. Covers such topics as cognitive, language, emotional, and relationship development in terms of the individual. Attention will be given to functioning of the individual within social units such as the family.

### PSYC 262. Theoretical Foundations of Organizational Psychology.
3 Units

**Prerequisite(s):** PSYC 108 or equivalent.  
**Term Typically Offered:** Fall, Spring

Major theories that made significant theoretical contributions to organizational psychology are covered, along with areas of significant research which have provided the foundations of modern organizational psychology.

### PSYC 267. Training & Employee Development.
3 Units

**Term Typically Offered:** Fall only

This course will provide an overview of the application of psychological principles to employee training and development, and an in-depth review of common training and development practices. Additional topics include techniques for determining training requirements, motivating trainees, providing feedback on trainee performance, ensuring positive transfer of training to the job environment, and employee development programs.

### PSYC 268. Advanced Psychopathology.
3 Units

**Term Typically Offered:** Fall, Spring

Covers an advanced and detailed discussion of the description, etiology, development, dynamics and treatment of individuals with mental disorders. Since the DSM-IV is the major classification system used by mental health professionals, it will also be discussed. This manual describes essential features of a variety of disorders and outlines the basis on which an experienced clinician can differentiate one disorder from another.  
**Note:** May substitute EDC 231.

### PSYC 269. Analysis of Work and Employee Selection.
3 Units

**Term Typically Offered:** Spring only

Survey of work analysis, with emphasis on designing employee selection systems. Topics to include multiple methods for analysis of different types and aspects of work, and applications of the results such as: Explicating the performance construct for a given job; identifying human attributes required for successful performance; evaluating jobs in terms of compensation; selecting appropriate measurement methods for predictor and criterion constructs; evaluating predictor utility; and the legal environment for employee selection practice.

### PSYC 271. Advanced Applied Behavior Analysis.
4 Units

**Prerequisite(s):** Graduate status and instructor permission.  
**Term Typically Offered:** Fall, Spring

Designed both for graduate students who are interested in gaining knowledge about the fundamental principles of behavioral psychology and those who are pursuing certification as a Board Certified Behavior Analyst. Students will not only learn behavioral theory and the means by which behavior is increased, decreased, shaped and maintained, but they will learn to apply behavioral principles to more complex topics such as concept formation and novel behaviors.
PSYC 272. Research Methods in Behavior Analysis. 3 Units  
**Prerequisite(s):** PSYC 171 or PSYC 181.  
**Term Typically Offered:** Fall, Spring  
Covers methods related to single-case research (i.e., data collection, logic, designs). Course content is based primarily on contemporary books and articles from peer-review journals. Topics include: measurement of behavior, methods of assessing inter-rater agreement, experimental design including, reversal designs, changing-criterion designs, alternating treatment designs, and multiple-baseline designs; and displaying and interpreting behavioral data. Current methodological issues will be discussed.

PSYC 274. Theoretical Foundations of Behavior Analysis. 3 Units  
**Prerequisite(s):** PSYC171 or PSYC181 or equivalent.  
**Term Typically Offered:** Fall, Spring  
Covers major theories that have made significant contributions to behavior analysis, along with areas of significant research providing the foundations of radical behaviorism and contemporary behavior analysis. Topics include history of behaviorism, selection by consequences as a casual mode, pragmatism, determinism, logical positivism, dualism x monism, verbal behavior and private events.

PSYC 275. Applied Behavior Analysis in the Workplace. 3 Units  
**Prerequisite(s):** Graduate students only  
**Term Typically Offered:** Fall only  
Overview of contemporary research and practice on the use of applied behavior analysis techniques in the workplace. Students will learn to use several performance assessment and improvement tools based on the operant learning literature, as well as learn strategies for effective supervision, training, and management of staff in human service organizations.

PSYC 277. Special Topics Graduate Seminar in Psychology. 3 Units  
**Prerequisite(s):** Graduate Student Status  
**Term Typically Offered:** Fall, Spring  
Examines a special topic of interest in psychology at the graduate level. Offered by rotating instructors, the course explores selected topics in psychology, and contemporary developments in theories, methodologies, and/or methods in the selected sub-discipline or topical area. Topics can include subject matter from all areas of psychology, including, but not limited to: applied behavior analysis, clinical, cognitive, community, cultural, developmental, experimental, feminist, health, industrial-organizational, neuroscience, perception, quantitative, social, etc., or related methodologies. Recommend prior coursework in area of focus.

PSYC 281. Advanced Experimental Analysis of Behavior. 4 Units  
**Prerequisite(s):** PSYC 271.  
**Term Typically Offered:** Fall, Spring  
Advanced consideration of small-N research designs. Analysis of complex contingencies of reinforcement and stimulus control as they apply to such topics as perceiving, thinking, abstractions, and concept formation. In-depth examination of behavior analytic principles in relation to choice behavior and verbal behavior.

PSYC 283. Teaching Of Psychology. 3 Units  
**Term Typically Offered:** Fall, Spring  
Covers the historical background of higher education, the social and administrative structure of colleges and universities, and the selection, preparation and planning of undergraduate psychology courses, particularly introductory courses.

PSYC 284. Assessment and Treatment of Behavior Problems. 4 Units  
**Prerequisite(s):** Graduate status and instructor permission.  
**Term Typically Offered:** Fall, Spring  
Advanced study and practical experience in application and teaching of behavior analytic methods of assessment, data collection, program construction and evaluation for a variety of behavior problems. Students will become proficient in conducting functional analyses, positive programming, and constructing and implementing behavior intervention programs for behavior excesses (consistent with State of California laws) including, antecedent manipulations, differential reinforcement schedules, functional communication training, and response cost. They will be required to develop didactic skills with respect to these various programs. Lecture three hours; Lab three hours.

PSYC 291. Professional Issues in Behavior Analysis. 3 Units  
**Prerequisite(s):** PSYC 271.  
**Term Typically Offered:** Fall, Spring  
Classroom and on-site experience in applied behavior analysis. Students will work at an approved agency for a minimum of 10 hours per week under the supervision of a Board Certified Behavior Analyst. Students will also meet in class to present and review their cases. Emphasis will be placed on treatment integrity and ethics.  
**Note:** Requires permission of instructor. May be repeated for credit.

PSYC 294. Cooperative Research. 1 - 6 Units  
**Term Typically Offered:** Fall, Spring  
Students work cooperatively on a psychological research project under faculty supervision.  
**Note:** Requires permission of instructor and the Department Chair. May be repeated once for credit.

PSYC 295A. Fieldwork in the Teaching of Psychology. 1 - 6 Units  
**Term Typically Offered:** Fall, Spring  
Supervised experience in various educational and instructionally related tasks, such as leading discussion groups, setting up and presenting demonstrations, constructing and scoring tests, and tutoring, at selected educational institutions in the Sacramento area.  
**Note:** Requires permission of instructor and the Department Chair. May be repeated once for credit.  
**Credit/No Credit**

PSYC 295C. Fieldwork in Personnel and Organizational Psychology. 1 - 6 Units  
**Term Typically Offered:** Fall, Spring  
Supervised work experience at a professional level in business and governmental organizations.  
**Note:** Requires permission of instructor and the Department Chair. May be repeated once for credit.  
**Credit/No Credit**

PSYC 295G. Fieldwork. 1 - 6 Units  
**Term Typically Offered:** Fall, Spring  
Projects in contemporary areas of psychology under the supervision of one or more faculty.  
**Note:** Requires permission of instructor and the Department Chair. May be repeated once for credit.  
**Credit/No Credit**
PSYC 297A. Advanced Graduate Research I. 1 - 4 Units
Prerequisite(s): PSYC 294
Term Typically Offered: Fall, Spring

Advanced research opportunity for graduate students who have completed previous research experiences in PSYC 294. Students in the course are expected to develop advanced skills in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 297B. Advanced Graduate Research II. 1 - 4 Units
Prerequisite(s): PSYC 297A
Term Typically Offered: Fall, Spring

Advanced research opportunity for graduate students who have completed previous research experiences in PSYC 297A. Students in the course are expected to demonstrate competence in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Requires approval of instructor and Department Chair.
Credit/No Credit

PSYC 500A. Culminating Experience. 4 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

PSYC 500B. Culminating Experience. 2 Units
Prerequisite(s): PSYC 500A.
Term Typically Offered: Fall, Spring

Continuation of work on thesis or project.

Public Health (PUBH)

PUBH 50. Healthy Lifestyles. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examines the concepts of: health and wellness; the determinants of health and wellness; and the concept of self-responsibility for health and wellness. These health and wellness concepts shall be applied to the areas of: mental wellness, nutrition, fitness, human sexuality, and drugs. The lecture/discussion format provides for a sharing of views regarding the integrated concepts of health that emphasizes the physical, mental, emotional, social, spiritual, and environmental factors that influence an individual's health status.

PUBH 98. Health Science ProSeminar. 3 Units
Term Typically Offered: Fall, Spring

Potential and beginning Health Science students become oriented to the Health Science discipline. They will acquire and develop the knowledge and understanding needed to fulfill the Health Science major learning outcomes. Students will develop their individual learning plans designed to assure fulfillment of the Health Science major, General Education, and University graduation requirements.

PUBH 106. Occupational Health. 3 Units
Prerequisite(s): must be a Public Health or a Fire Service Management major or minor to enroll in this class
Term Typically Offered: Spring only

Explores global and national issues in occupational and non-occupational safety and health. Subjects include motor vehicle, consumer, workplace, fire, school, and home safety. Examines concepts and principles related to the cause, control, and mitigation of unintentional injuries and illnesses. Emphasizes the development, implementation, and integration of effective safety and health program strategies in the prevention and control of loss.

PUBH 107. Occupational Safety. 3 Units
Prerequisite(s): Public Health majors or minors only, or instructor permission.
Term Typically Offered: Spring only

Examines common hazards and problems encountered in the workplace, including concepts and principles related to the control and mitigation of occupational safety hazards. Emphasizes the development, implementation, and integration of effective occupational safety and health program components.

PUBH 108. Occupational Health and Safety Laws and Regulations. 3 Units
Prerequisite(s): Public Health majors or minors only; or instructor permission.
Term Typically Offered: Fall only

Overview of regulatory agencies involved in occupational health and safety and their functions in the enforcement of regulation and/or compliance of safety laws. Special emphasis on Cal/OSHA. Other topics: application of surveillance, research, control technology, and trained personnel to maintain compliance. Recognizes that strategies to achieve a safe workplace includes an analysis of economic and employment impacts on the employer.
PUBH 109. Cause and Control of Occupational Loss. 3 Units
Prerequisite(s): Public Health majors or minors only, or instructor permission.
Term Typically Offered: Fall only

Study of the characteristics, causes, and control of occupational loss; influence of the work environment and system structure on incident outcomes; and analysis of occupational injuries and illnesses through the application of incident investigation and system safety techniques. Course will use occupational injuries and illnesses to focus on the process of problem identification and analysis, including the development and implementation of control measures.

PUBH 110. Issues in Occupational Health and Safety. 3 Units
Prerequisite(s): PUBH 100 or instructor permission
Term Typically Offered: Fall, Spring

Examines current and emerging issues in occupational health and safety, including historical, philosophical, and conceptual factors that serve as a basis for predicting, understanding, and resolving occupational health and safety issues. Examples include: Issues in high hazard industries, special populations at risk, emerging technologies, occupational hazards, and traumatic injuries.

PUBH 112. Disease Prevention. 3 Units
Prerequisite(s): Public Health majors or minors only; or instructor permission
Term Typically Offered: Fall, Spring

Surveys the current methods of promoting high level wellness through a preventive medicine approach for the promotion of more enjoyable and productive living. Attention directed toward the specific methods of promoting personal health through various current methodologies including the "holistic health" movement. Meets the needs of major students as well as those in allied fields such as nursing, social work and other interested students.

PUBH 114. Human Ecology and Health. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Emphasizes the social and natural environmental influences that have a direct impact upon the health of the individual. Primary consideration is directed to an analysis of health as influenced by a person's interaction with his/her environment.

PUBH 116. Public Health Policy, Management & Administration. 3 Units
Prerequisite(s): Must be a Public Health, Health Sciences, or Gerontology major or minor or admitted by permission of instructor
Term Typically Offered: Fall, Spring

In Public Health Policy, Management and Administration we will build an understanding of: how public health systems are structured and managed; how public health policy is shaped and implemented; and the reciprocal relationship between culture, context, and economics and public health policies and systems. We will compare and contrast public policies, systems and management at local, national, and global levels.

PUBH 117. Global Health. 3 Units
Prerequisite(s): Public Health majors or minors only; or instructor permission
Term Typically Offered: Fall, Spring

Introduction to the globalization of public health and the critical health issues facing all citizens of the world, with special emphasis on health concerns of developing countries. Topics include global malnutrition, primary health care, maternal and child health, international environmental health, comparative health care systems, epidemiology and international health threats, and sustainable health and development programs undertaken by nongovernmental organizations.

PUBH 118. Introduction to Public Health. 3 Units
Prerequisite(s): Must be a Public Health major or minor
Term Typically Offered: Fall, Spring

The course introduces students to a range of topics, issues, methods, approaches, and frameworks to help understand current public health issues, systems and areas of practice. This course explores the ways in which public health practice prevents harm and promotes and protects health and well-being of people, communities and their environments.

PUBH 119. Community Health Promotion. 3 Units
Prerequisite(s): Must be a Public Health major or minor with a minimum "C" grade or better in PUBH 118 or have instructor permission
Term Typically Offered: Fall, Spring

In this course, we will explore the theoretical constructs of community, community building, community organizing and community-based participatory action research as levers to address social determinants of health to promote individual and community health and well-being. Emphasis on developing effective community health promotion materials, strategies and advocacy activities.

PUBH 122. Health Psychology. 3 Units
Prerequisite(s): Must be a Public Health or Child Development major or minor
Term Typically Offered: Fall, Spring

Introduction to behavioral and social factors which influence health and illness. Explores the causes of premature death, the relationships between personality and health, and the development of health problems. Includes an overview of psychological principles in behavioral medicine, physiological foundations of health psychology, the role of emotions in immune function, and topical theories of, techniques for, and research on how psychology can help people live longer, healthier lives.

PUBH 124. Ethical Considerations in Public Health. 3 Units
Prerequisite(s): WPJ score of 80 or above, or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL; or WPJ score of 70/71 + co-enrollment in ENGL 109X
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

This course examines ethical issues related to public health practice, policy, and research. Questions of autonomy, liberty, individual rights, power, coercion, social justice, discrimination, stigma, community paternalism, and the common good are the basis of ethical challenges in public health. Public health ethical considerations in health promotion, health policy, healthcare, and issues of safety where people work, live, and play will be the focus both domestically and globally. Students will develop an analytical methodology to apply to public health work.

Note: Students must be eligible to take a writing intensive course.
PUBH 130.  Alcohol and Other Drugs.  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall, Spring, Summer

Various aspects of drug usage will be studied with emphasis on the role of health education in reducing abuse. This course is designed to explore contemporary issues related to drug and alcohol use. The course will examine the physiological, psychological, social, and cultural impact of licit and illicit drugs.

PUBH 134. Understanding Human Sexuality.  
General Education Area/Graduation Requirement: GE AREA D  
Term Typically Offered: Fall, Spring

This course is designed to explore gender and social issues associated with human sexuality. The course will examine the impact of physiological, psychological, social, and cultural differences and similarities on the sexual health of diverse groups. The course will explore issues related to age, ability/disability, sexual identity, sexual myths, misconceptions, and gender expression.

PUBH 136. School Health Education.  
Prerequisite(s): CPR training; may be taken concurrently.  
Term Typically Offered: Fall, Spring, Summer

Provides teacher candidates, social workers, and nurses an understanding of the educational methods, processes, and content of the scope of health education as provided in the Framework for Health Instruction of the California State Department of Education. Offers an understanding of current problems related to personal, family, and community health. General theories and organization for teaching health education will be discussed. Meets the requirement for teacher candidates under the SB2042.

Note: Not open to lower division students.

PUBH 1344. Community Health Planning and Evaluation.  
Prerequisite(s): PUBH 118, PUBH 148; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X; or instructor permission; restricted to Public Health majors and minors.  
Term Typically Offered: Fall, Spring

Introduces students to the process and practice of program planning and evaluation. Examines the social and physical determinants of health; the impact of the community structure on health status; and, the influence of personal health behavior on community health education practice. These concepts shall be applied in the planning, implementation, and evaluation of health education services.

PUBH 147. Health Data Analysis.  
Prerequisite(s): STAT 1, Public Health major or instructor permission.  
Term Typically Offered: Fall, Spring

Introduction to methods and statistical practices used in the health sciences. Emphasis on the methods of collection, analysis, interpretation, and presentation of health data. Conceptual learning will be facilitated by sessions using computational software.

PUBH 148. Epidemiology.  
Prerequisite(s): STAT 1 or instructor permission; Public Health or Biological Sciences major or minor.  
Term Typically Offered: Fall, Spring, Summer

Designed to offer cognitive insights into community health epidemiology. Provides understanding of the study of the distribution and determinants of communicable, infectious and chronic disease, and of injuries in the human population.

PUBH 150. Aging and Health.  
Prerequisite(s): Student must be admitted to the Public Health, Kinesiology, or Gerontology major or minor, or have instructor permission to enroll in this course.  
Term Typically Offered: Fall, Spring

Designed to introduce students to the basic aging and health concerns of older people and to broader issues of aging, health and society. Examines the: demography of the aging population, biological theories of aging, social and psychological aspects of aging. Includes such issues as nutrition, drugs, exercise, sexuality, patterns of health services utilization, institutionalization, alternatives to the provision of long-term care in institutions, and dying.

PUBH 151. Introduction to the U.S. Healthcare System.  
Prerequisite(s): Student must be admitted to the Public Health major or minor, or have instructor permission to enroll in this course.  
Term Typically Offered: Fall, Spring

This course presents an overview of the historical, structural, and operational aspects of the nation’s healthcare systems. Students will examine the factors that shape public policy regarding the allocation of health care resources and will gain an understanding of the relationship between healthcare costs, quality of care, and the access to health services. The influence of professional associations, medical technology, and social values in health reform initiatives is discussed.

Prerequisite(s): Public Health majors and minors only; or instructor permission  
Term Typically Offered: Fall, Spring

Introduce students to a broad range of issues related to managing healthcare organizations. Students will explore areas such as organizational behavior and theory applied to healthcare organizations and the role of administrators in planning, organizing, and overseeing the delivery of healthcare services. Organizational principles and decision-making strategies are applied to functional areas of health administration including finance, human resources, performance improvement, strategic planning, and healthcare information systems.

Prerequisite(s): Public Health majors only  
Term Typically Offered: Fall, Spring

Introduction to the study of healthcare administration. Examines the broad field of healthcare administration. Topics include healthcare management, leading healthcare professionals, strategic planning in healthcare, healthcare budgeting and finance, healthcare insurance, healthcare marketing, healthcare information technology, healthcare ethics and law, and healthcare fraud and abuse.
PUBLIC HEALTH (PUBH)

PUBH 154. Healthcare Organizational Behavior. 3 Units
Prerequisite(s): Public Health majors only
The study of healthcare organizational behavior including individual and group dynamics in the context of healthcare settings. Examines the impact of organizational contexts on the behavior of individuals and groups in healthcare organizations. Topics include individual motivation, power and influence, leadership theory, stress in the workplace, decision-making, conflict and negotiation, group dynamics, and change planning in healthcare.

PUBH 155. Introduction to Healthcare Process Improvement. 3 Units
Prerequisite(s): Public Health majors only
Term Typically Offered: Fall, Spring
An exploration of the basic principles and techniques of process improvement in healthcare through a range of topics, including measurement of health care system performance to creating high-quality services that result in organizational improvement and customer satisfaction.

PUBH 195. Fieldwork - Health or Safety. 2 - 4 Units
Prerequisite(s): Permission of faculty advisor, program coordinator and Department chair.
Term Typically Offered: Fall, Spring, Summer
To obtain insights into the practical application of the classroom teachings, fieldwork experiences are required of those preparing for a career in community health education or other areas of health and safety studies.
Note: Submit an application for field work no later than the fourth week of the semester prior to taking HLSC 195. May be repeated once for credit.
Credit/No Credit

PUBH 196. Experimental Offerings in Health Science. 1 - 3 Units
Term Typically Offered: Fall, Spring
Undergraduate seminar designed to provide an in-depth examination and discussion of current topics in the area of personal and community health and safety.

PUBH 196A. Public Health International Study Abroad. 3 Units
Term Typically Offered: Summer only
Students experience a unique culture first-hand and through designed learning experiences, view a different society through the lens of health and wellbeing while expanding one's cultural awareness. Students will understand and compare the organization of different healthcare and the public health systems, and gain insight into how to bring positive change into the systems in which they work.

PUBH 199. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of faculty under whom individual work will be conducted, program coordinator, and Department chair; PUBH 116, PUBH 118, PUBH 119, and PUBH 148 are strongly recommended.
Term Typically Offered: Fall, Spring
Note: Open only to HLSC majors and minors who appear competent to conduct independent work such as
Credit/No Credit

PUBH 201. Behavioral and Social Sciences in Public Health. 3 Units
Prerequisite(s): MPH major or instructor approval.
Term Typically Offered: Fall, Spring
Psychological and social concepts and models relevant to population health are reviewed and critiqued. The course will enable students to describe core theoretical perspectives from each of the social science disciplines of psychology, sociology, and anthropology. Students will learn how to select and apply appropriate social and behavioral models to the design of public health interventions and policies. The course will also cover the critical interrelationships among social determinants, environmental influences, behavioral risk factors, and health disparities.

PUBH 202. Ecological Determinants of Human Health. 3 Units
Term Typically Offered: Fall, Spring
This course will explore both natural and built environments and their impact and consequences on human health. It will examine the social, structural & political determinants affecting ecology, examining social & environmental justice. An emphasis will be placed on unintentional consequences of human interactions with respect to their physical environment. The course will examine current national and international issues in environmental health, including but not limited to anthropogenic climate change, biodiversity loss, ocean acidification, and carbon footprinting.

PUBH 203. Public Health Management and Leadership. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring
This course examines the role of management and leadership practices in public health organizations and draws on theory to explore the role of public health leaders in planning, budgeting, staffing, and controlling performance. Students will explore relevant leadership topics such as organization development, employee motivation, and emotional intelligence. The nuances of leading in a government agency are also considered. These topics are set in the context of ethical management and leadership practices.

PUBH 204. Healthcare Systems, Structures, and Policies. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring
This course explores health care systems from a macro perspective, including historical development, information technology, healthcare policy and resource allocation, the healthcare workforce, issues surrounding access to healthcare, prevention in healthcare, population health and medicine, various delivery models, and public health's partnership with healthcare. Comparisons are made between the US health care system and other nations in relation to costs and quality.

PUBH 207A. Health Research Methods and Analysis (A). 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring
Introduces students to the fundamentals of research methodology in applied epidemiology, biostatistics and evaluation research. Students learn quantitative, qualitative, mixed method and participatory approaches to research, as well as ethical behavior in conducting research. Through the mix of texts, articles from the public health literature and course work, students will build skills for conducting research and analysis across a variety of public health applications.
PUBH 207B. Health Research Methods and Analysis (B). 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Explores intermediate and advanced research methods in applied epidemiology, biostatistics and evaluation research. Students learn about tools for describing central tendency and variability in data, methods for performing inference on population parameters via sample data, statistical hypothesis testing and its application to group comparisons, issues of power and sample size in study design, and sampling techniques. Students will also examine common research methods used in program evaluation.

PUBH 220. Health Policy Analysis. 3 Units
Prerequisite(s): MPH major or instructor approval.
Term Typically Offered: Fall, Spring

Students develop strategies for the analysis of health policy issues and learn to communicate effectively in the policy environment. Students gain a local, state, and federal perspective on the historical and political context of health policy and its effects on public health and health care systems, with an emphasis on population health outcomes.

PUBH 221. Strategies for Community Engagement. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Students master the concepts and practices of community engagement, including defining a community, developing community coalitions, forming multi-sector partnerships, social network theory, community-based participatory research, the community engagement continuum of impact, trust, and readiness, models of community change/intervention, community psychology, and community organizing. Students will apply these concepts in a culminating semester project that includes developing a community engagement strategy to address a health issue. Ethics in community engagement underlies the basic approach taken throughout the course.

PUBH 222. Methods of Health Promotion. 3 Units
Prerequisite(s): Master of Public Health major or instructor permission.
Term Typically Offered: Fall, Spring

This course explores theories of health communication, teaching and learning, marketing and advertising, and health behavior to prepare students to design effective health promotion interventions. Students will learn to utilize multiple methods of health promotion, including presentation planning, social marketing, material design, and mediated communication. This course also emphasizes the importance of public engagement and the development of effective communication with public health stakeholders including consumers, community groups, policy makers, health care providers, news media, and the general public.

PUBH 223. Leadership in Public Health Practice. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Examines the role of leadership in public health practice at the program, agency, and community-organization level, with an emphasis on leading community health improvement efforts. Students become aware of their leadership style through assessment and experiential activities, while learning to adapt their approach to leading across multiple settings. Particular emphasis is placed on leading groups and teams in practice settings often encountered by public health professionals.

PUBH 224. Program Planning and Evaluation. 3 Units
Prerequisite(s): Master of Public Health majors or instructor permission.
Field trip.
Term Typically Offered: Fall, Spring

Covers the essential elements of planning, implementing, and evaluating a health promotion program. Aspects of the course include the application of health behavior theory and program planning models, consideration of the social and physical determinants of health, structural influences on personal health status, and the influences of social and health policy on communities.

PUBH 225. Topics in Public Health Seminar. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Summer only

Introduces students to a variety of pressing issues impacting current public health practice and provides an opportunity to explore one or more of those issues in greater depth. Students conduct research using multiple sources on a variety of topics, present findings to the class, and create a solution-centered project with potential applications for practice.

PUBH 295. Public Health Practicum. 3 Units
Prerequisite(s): Master of Public Health major or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Provides students with an in-depth, supervised experience in an applied practice setting. Students explore broad areas of public health practice and conduct supervised field research on a specific area of professional interest. Students further develop expertise in an area of interest by providing consultation and technical assistance to a project or organization engaged in public health work. Credit/No Credit

PUBH 500. Public Health Capstone. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Guides students through a culminating experience in the Master of Public Health program. Seminars discuss and review the integration of core public health concepts and concentration competencies. Students create materials that demonstrate the analysis, synthesis, and intersection of course work, while demonstrating mastery of the broad field of public health.

Public Policy and Administration (PPA)

PPA 100. Introduction to Public Policy and Administration. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150 or equivalent.
Term Typically Offered: Fall, Spring

Explores context and process for policy making by national and California state governments, including ethical dimensions. Applications are developed from students' and instructor's areas of interest including K-12 and higher education, land-use policy, and aging issues such as elder advocacy, Social Security, and Medicaid. Provides background and skills for entry level positions in public or non-profit organizations. Cross Listed: GERO 102; only one may be counted for credit.
PPA 200. Introduction to Public Policy and Administration. 3 Units
Term Typically Offered: Fall, Spring

Examines public policy and administration by exploring major policy processes, particularly in California state and local government. Topics include the emergence and specification of issues, developing and selecting policy options, implementing and administering policies and evaluating and terminating public policies. The course approach is comprehensive, transdisciplinary and human centered – concerned with the interplay of values in shaping policy outcomes. The intent is to provide conceptual frameworks and operational principles required in identifying and resolving issues emerging in public settings.

Note: Satisfies the Graduate Writing Intensive Requirement (GWI).

PPA 205. Research in Public Policy and Administration. 3 Units
Term Typically Offered: Fall, Spring

Emphasizes fundamental research and management skills necessary in generating accurate and useful decision-related information for policy makers. Topics include conceptualizing and structuring research questions, collecting valid and relevant data and interpreting and presenting results. The course approach is pragmatic, transdisciplinary, and oriented to producers and users of policy research information. The intent is to enhance research skills in analyzing and resolving policy issues.

PPA 207. Quantitative Methods in Public Policy and Administration. 3 Units
Prerequisite(s): PPA 205 or instructor permission.
Term Typically Offered: Fall, Spring

Study of quantitative methods as applied in public policy analysis. Concentrates on interpreting the results of econometric, statistical, and other public policy studies, and on determining the relevance and applicability of quantitative analysis with the larger scheme of public policy decision making.

PPA 210. Political Environment of Policy Making. 3 Units
Prerequisite(s): PPA 200 or instructor permission.
Term Typically Offered: Fall, Spring

Assists students in learning to identify the political factors impinging on the policy process and in learning to cope with them. With special emphasis on the California political environment and issues, employs case studies, structured role-playing, and including politically feasible policy alternatives and advice to hypothetical clients. The goal is to equip students to work effectively as politically aware policy analysts.

PPA 220A. Applied Economic Analysis I. 3 Units
Prerequisite(s): ECON 1B, or instructor permission.
Term Typically Offered: Fall, Spring

Presents the basic concepts, tools, and models of microeconomics in the context of public sector choices. The standard market demand and supply model is developed and used to analyze the effect of public policies (particularly those of California state and local governments) on consumers and businesses. The principles of welfare economics are presented and used to evaluate economic performance.

Note: Graduate Writing Intensive Course.

PPA 220B. Applied Economic Analysis II. 3 Units
Prerequisite(s): PPA 220A.
Term Typically Offered: Fall, Spring

Continuation of PPA 220A which focuses specifically on the role of government in a market-oriented economy with emphasis on market failures including: public goods, externalities, and monopoly. Corrective taxes and expenditure programs are discussed, and the technique of cost-benefit analysis is developed and applied to various state and local government projects.

PPA 230. Public Budgeting and Finance. 3 Units
Term Typically Offered: Fall, Spring

Enables students to understand, analyze, and evaluate the governmental budget process including revenue and expenditure patterns. The primary emphasis is on California state and local governments. The federal budget process is discussed primarily to reflect the impact that it has on state and local governments. Features both theoretical and practical approaches to budgets, including alternate budget formats. Various perspectives are utilized to explore the political, economic, and policy concerns inherent in the development and implementation of public sector budgets.

PPA 240A. Public Management and Administration I. 3 Units
Prerequisite(s): 1) graduate standing and 2) completion of PPA program prerequisites, or instructor permission.
Term Typically Offered: Fall, Spring

Examines concepts and approaches used in analyzing and understanding complex organizations. Organizational theory, management concepts, and behavioral analysis is employed to understand the dynamics and evolution of public sector organizations. Emphasis is placed on applying classic organizational theory and introductory leadership skills and issues.

PPA 240B. Public Management and Administration II. 3 Units
Prerequisite(s): PPA 240A.
Term Typically Offered: Fall, Spring

Continuation of PPA 240A. Examines concepts and approaches used in analyzing and understanding complex organizations. Emphasis is placed on ability to intervene and assist public agencies by designing intervention plans, engaging in strategic planning, promoting interdepartmental effectiveness, using advanced leadership issues and techniques, and using advanced organizational development strategies.

PPA 250. California Land Use Policy. 3 Units
Term Typically Offered: Fall, Spring

Examines public policies that influence land use. Reviews tools of land use planning and development and applies them to issues that dominate California policy choices including urban design, fiscalization of land use, sustained growth, and the challenges of social equity.
PPA 251. Urban Problems, Economics and Public Policy. 3 Units
Prerequisite(s): PPA 220A or ECON 100B.
Corequisite(s): ECON 251; only one of these courses may be counted for credit.
Term Typically Offered: Fall, Spring

Historical development, economics and possible policy solutions of the most pressing problems facing central cities and urban areas in the U.S. are presented. Problems discussed include poverty, crime, urban abandonment/suburban sprawl, edge cities, deteriorating infrastructures, and fiscal stress. Cross Listed: ECON 251; only one may be counted for credit.

PPA 270. Introduction to Collaborative Policy Making. 3 Units
Prerequisite(s): PPA 200 and PPA 210, or approval of instructor.
Term Typically Offered: Fall, Spring

Examines the theory and practice of collaborative policy-making using case studies of major collaborative processes. Topics include interpretative policy analysis, deliberative democracy theory, public participation, collaborative policy networks, the use of dialogue in public policy, resolution of policy controversies, and consensus building.

PPA 272. Collaborative Governance Advanced Practice. 3 Units
Prerequisite(s): PPA 270 with a grade of B- or better, or instructor permission.
Term Typically Offered: Fall, Spring

Practice driven, highly participatory course for professionals who require more advanced skills into collaborative methods. Topics include conflict analysis and assessment, analysis of advocacy speech, public participation, working with the media, and interagency networks. Focuses on active learning with practice in a wide variety of collaborative skills.

PPA 284. Urban Policy. 3 Units
Term Typically Offered: Fall, Spring

Exploration in-depth of the socio-economic problems of urban and metropolitan areas and evaluation of proposed political and governmental solutions. Cross Listed: GOVT 284; only one may be counted for credit.

PPA 291. Court Governance and Operations. 3 Units
Term Typically Offered: Fall, Spring

Studies the state judiciary as both independent and interdependent with the legislative and executive branches of government at both the state and local level. The goal is to develop foundational knowledge of the historical and evolving governing and operational principles of the California court system.

PPA 292. Court Management. 3 Units
Prerequisite(s): PPA 291 or instructor permission.
Term Typically Offered: Fall, Spring

Provides training in key court administrative areas identified by such organizations as the National Association of Court Management (e.g., case flow management). Drawing from interdisciplinary literature on management theory, court case studies illustrate and provide context.

PPA 293. Court Leadership. 3 Units
Term Typically Offered: Fall, Spring

Examines leadership in the court environment as distinct from management. Investigates how leadership principles are exercised in pivotal areas of the courts such as: community relations, creativity and innovation, organizational change, workforce development, succession planning, strategic planning and re-engineering.

PPA 294. Emerging Issues in Judicial Administration. 3 Units
Term Typically Offered: Fall, Spring

Addresses pressing issues in judicial administration (e.g., courts in an electronic world, rising administrative workloads, greater number of self-represented litigants). Specific topics may change from year to year depending on the urgency of topics and nature of policy implications.

PPA 296E. Intergovernmental Relations. 3 Units
Term Typically Offered: Fall, Spring

A review of the origins of federalism in the U.S. and various theoretical approaches to understanding the relationships between various levels of government, including ways in which the different levels of government relate to one another both vertically and horizontally.

PPA 296M. Policy Prototyping. 3 Units
Prerequisite(s): At least one graduate course in political science, economics, and administration or management; no more than one of which may be taken as a co-requisite.
Term Typically Offered: Spring only

Applies policy and administrative prototyping to policy topics such as transportation and mobility, environment and resources, and education, workforce, and justice. The course uses the drafting and iteration of statutes, ordinances, and regulations, budget and personnel plans, organizational designs, and vote counts, along with sketching design thinking applications, to explore innovative strategies for addressing these policy topics, with an emphasis on implementation.

PPA 297A. Executive Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring

Seminar will enhance Executive Fellows' understanding of the state policy making and administrative process, policy implementation, ethical responsibilities of policy and administrative actors.
Note: Open only to students admitted to the Executive Fellowship Program.

PPA 297B. Executive Fellows Policy Seminar. 3 Units
Prerequisite(s): PPA 297A
Term Typically Offered: Fall, Spring

Seminar will extend the examination and analysis of the Executive branch of government to include alternative administrative practices, policy implementation strategies, and related administrative issues.
Note: Open only to students admitted to the Executive Fellowship Program.

PPA 298A. Judicial Administration Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring

Critical examination and analysis of the administrative operation of the California judicial system and its structures, policies and practices.
Note: Open only to students admitted to the Judicial Administration Fellows Program.
Punjabi (PUNJ)

PUNJ 1A. Elementary Punjabi. 4 Units
Term Typically Offered: Fall only
Introduction to Punjabi as spoken in India and Pakistan. Instruction will be in all four language skills: speaking, reading, listening and writing. In addition to getting a start in modern Punjabi, students will also learn about social aspects of the use of Punjabi.

PUNJ 1B. Elementary Punjabi. 4 Units
Prerequisite(s): PUNJ 1A.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Spring only
Continuation of PUNJ 1A, with emphasis on reading, writing, listening and speaking. Punjabi culture and its reflection in the language is given continued attention.

Real Estate & Land Use (RELU)

RELU 199. Special Problems in Real Estate and Land Use Affairs. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030. Credit/No Credit

Recreation, Parks, and Tourism Administration (RPTA)

RPTA 1. Orientation to Recreation, Parks and Tourism Administration. 1 Unit
Term Typically Offered: Spring, Summer
Introduction to the RPTA major with an emphasis on degree options, major advising, referrals to GE for general advising, information about the RPTA undergraduate student association, other local, statewide and national professional associations, scholarship opportunities, the 600-hour volunteer/paid placement prior to the internship, an overview of the internship process. Credit/No Credit

RPTA 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only
A first-year seminar intended to provide students with an introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. This course is designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. The seminar also provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

RPTA 22. Happiness, Quality of Life, and Recreation Over the Lifespan. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring
This course focuses on the interrelationship between happiness, positive leisure, recreation, one's personal growth and development, and quality of life. Emphasis is placed on the interplay between psychological, physical, and social factors that affect one's development and lifestyle choices. The course offers a survey of philosophical and scientific concepts linked to happiness and well-being as pertains to important components of the life experience ranging from conception to the end of life.

RPTA 30. Recreation, Parks and Tourism in Contemporary Society. 3 Units
Term Typically Offered: Fall, Spring
Orientation to the nature, scope and significance of the recreation, park and tourism in today's world. Analyzes philosophical and related elements essential to the effective delivery of leisure services, including the role of affective, cognitive and social motivations and outcomes.
RPTA 32. Leadership and Group Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

The purpose of this course is for students to develop an understanding of the theory and practice of leadership in various recreational organizational settings. The course will allow students the opportunity to develop leadership skills through lectures, self-assessments, experiential exercises, class discussions, and case studies. Students are exposed to diverse theories and perspectives on leadership and are encouraged to apply critical thinking skills to develop their own working philosophy of the leadership that will serve them in their career contexts.

RPTA 33. Race, Class Gender and Leisure. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of the role of leisure in the social construction of markers of identity across gender, race, class, sexuality and disability; and leisure's role in the construction of institutional oppressions such as racism, sexism, homophobia and discrimination based on class and disability.

RPTA 34. The Outdoor Recreation Experience. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Encourages the student to identify and demonstrate an understanding of the value, meaning and benefits of outdoor recreation experiences and to explore a variety of outdoor adventure experiences. Outing skills such as trip planning, meal preparation, camp selection and set-up, equipment and clothing, map and compass, hygiene and first aid will be discussed and practiced. Students will also develop an awareness of and appreciation for minimum impact wilderness travel techniques and environmental responsibility and ethics.

RPTA 42. Recreation and Parks: Natural, Cultural, and Heritage Resources. 3 Units
Term Typically Offered: Fall, Spring

Examines the use of natural, cultural, and heritage resources for recreation, tourism and leisure purposes in a variety of settings and under the auspices of various agencies. Includes study of various protected areas and facilities, including parks, forests, museums, and cultural sites and how they are influenced by social trends, conflicting use demands, agency responsibilities, environmental considerations, and fiscal implications.

RPTA 50. Introduction to Rock Climbing. 1 Unit
Term Typically Offered: Fall, Spring

Designed to provide students with the basic knowledge, skills, and techniques of modern rock climbing. Students will learn skills pertaining to indoor top-rope and lead climbing, indoor and outdoor bouldering, and outdoor sport climbing. Students will also learn and discuss outdoor ethics and environmental impact in relation to rock climbing.

RPTA 60. Budgeting for Recreation Services. 3 Units
Prerequisite(s): RPTA major and minors only, or instructor permission.
Term Typically Offered: Fall only

Introduces students to budget topics in Recreation, Parks, and Tourism, through the use of theoretical readings, case studies, and a series of professional speakers. Students will gain a broad understanding of the planning and implementation of the budget process for a leisure service agency, primarily those that are non-profit or tax-supported.
Note: Only one of RPTA 60 or RPTA 61 may be counted for credit

RPTA 61. Cost Management for Hospitality. 3 Units
Prerequisite(s): RPTA major and minors only, or instructor permission.
Term Typically Offered: Spring only

Introduces students to a broad range of topics related to cost management in hospitality, and teaches students to analyze numerical data for decision-making in hospitality operations. Considers systems, techniques, information types, and presentational forms commonly used by hospitality managers. Additional topics include, financial statements and ratio analysis, various pricing methods, types of costs in hospitality and service industries, cost-volume-profit techniques, and the application of standard cost controls used in hospitality.
Note: Only one of RPTA 60 or RPTA 61 may be counted for credit

RPTA 62. Introduction to Recreation Law. 3 Units
Prerequisite(s): RPTA majors and minors only, or instructor permission.
Term Typically Offered: Fall, Spring

Introduces students to legal topics and regulations in Recreation, Parks and Tourism industries. Students are given a practical knowledge of the law, operation of the legal system, contracts, and legal applications to agency management, human rights and personnel. Course uses text book readings, case law from actual published decisions in the field of Recreation law, courtroom visitations, and professional speakers.

RPTA 80. Introduction to Hospitality and Tourism. 3 Units
Term Typically Offered: Fall only

Hospitality and tourism are vitally important to California’s image and economy, and these two related industries are among the world’s top employment providers. This course provides an introductory overview of the broad hospitality and tourism industries, covering several topics, including growth and development, trends and current concerns, and professional employment sectors.

RPTA 82. Introduction to Hospitality and Tourism Law. 3 Units
Term Typically Offered: Fall, Spring

This course provides insight into the laws and regulations governing the hospitality and tourism industries with an emphasis on labor relations and human resources best practices. The course addresses the general concepts of tort, contracts, liability, risk management, employment practices, licensing, and insurance needs. The course also explores the legal issues that today’s industry professionals face such as privacy, labor laws, the common law system for innkeepers and newer hospitality products in the shared economy such as AirBnB or VRBO. Field Trip(s) may be required.
RPTA 84. Hotel and Lodging Operations. 3 Units
Term Typically Offered: Fall, Spring

This course is designed to provide knowledge of hotel and lodging operations. Students will acquire an understanding of how a variety of lodging types, specifically hotels, operate by detailed examination of the departments common to most lodging properties, including the front office, sales and marketing, housekeeping, maintenance, and others. Additionally, topics relevant to operations like green initiatives and revenue optimization will be discussed in this course. Field Trip(s). Field trip(s) may be required.

RPTA 100. Recreation and Leisure Lifestyle Development. 3 Units
Term Typically Offered: Fall, Spring

A broad general overview of the recreation and leisure movement followed by a specific examination of changing leisure lifestyles and their impact on the individual's choice of recreation and leisure patterns. Also examine the impact that the choice of leisure lifestyles has on other aspects of the individual's life as well as the negative effects of restrictive or inadequate leisure involvement.

RPTA 101. Senior Seminar. 1 Unit
Prerequisite(s): RPTA 1 and senior status
Term Typically Offered: Fall, Spring, Summer

Students will focus on identifying potential internships, refining resumes and writing cover letters for securing internships. Students will also complete the RPTA Department Exit Exam.

Credit/No Credit

RPTA 102. Recreation Therapy Professional Practice. 1 Unit
Prerequisite(s): RPTA 1, RPTA 106, RPTA 115, RPTA 116, RPTA 117, RPTA 118 and senior level.
Corequisite(s): RPTA 115, RPTA 116, and/or RPTA 118 may be taken concurrently.
Term Typically Offered: Fall, Spring

This senior level course is intended to build upon a student's previous coursework in recreation therapy, and link the theoretical foundation with day-to-day practical applications. Students will fine-tune skills and interests in recreation therapy, learn methods for effective networking, and develop interviewing techniques in order to identify appropriate internships and employment opportunities.

Credit/No Credit

RPTA 105. Management in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 30 or instructor permission
Term Typically Offered: Fall, Spring

Analyzes the functions of managers including planning, organizing, staffing, leading and controlling. Also examines basic principles, techniques and tools associated with these functions. Consideration of internal and external environments which influence the managerial process and the manager's role in various areas of enterprise activity.

RPTA 106. Introduction to Inclusive Recreation and Recreation Therapy. 3 Units
Prerequisite(s): RPTA majors or minors or HLSC majors or minors only, or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Addresses the etiology and nature of common disabling conditions and examines issues of leisure participation and inclusion for underrepresented populations. Topics include: attitudinal barriers, advocacy, normalization, universal design, activity analysis and modification, and legislation. Emphasis on leadership, supervision and organizational development of inclusive and recreation therapy programs.

RPTA 110. Research and Evaluation in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 1 and RPTA 30.
Term Typically Offered: Fall, Spring

Provides students with tools to analyze leisure behavior, interests and the motivational basis of leisure as they apply to the field of recreation and leisure services. Emphasizes applied research techniques including qualitative, descriptive and analytical methods, and program evaluation.

RPTA 115. Recreation Therapy Assessment and Documentation. 3 Units
Prerequisite(s): CHDV 30, PSYC 168, RPTA 30, RPTA 106 and RPTA 117; or instructor permission.
Term Typically Offered: Fall, Spring

Assessment procedures and instruments used to assure competence in assessment of client function in leisure. Documentation, assessment, regulations in different settings (i.e., community hospital, and clinical settings), protocols and development of individual treatment plans. Students are exposed to the Recreation Therapy process (APIE) in a variety of clinical and community settings.

RPTA 116. Recreation Therapy Principles and Practices and the Recreation Therapy Process. 3 Units
Prerequisite(s): CHDV 30, RPTA 30, RPTA 106 and RPTA 117; or instructor permission. RPTA 117 may be taken concurrently.
Term Typically Offered: Fall, Spring

Philosophy and principles underlying the work performed by the recreation therapist are studied including assessment, individual program planning, interpersonal interaction skills, and working with families.

RPTA 117. Recreation Therapy and Contemporary Aspects of Disability. 3 Units
Prerequisite(s): RPTA 106; RPTA 106 may be taken concurrently.
Term Typically Offered: Fall, Spring

In-depth exploration of a variety of disabilities and diseases, including physical disabilities, developmental disabilities, intellectual disabilities, mental health, hearing and vision impairments, and disabilities related to aging. Content will focus on etiology, prognosis, symptomatic conditions, prescription drugs, and recreation therapy interventions. Medical terminology will be covered.
RPTA 118. Recreation Therapy Facilitation Techniques. 3 Units
Prerequisite(s): CHDV 30, PSYC 168, RPTA 30, RPTA 106 and RPTA 117; or instructor permission.
Term Typically Offered: Fall, Spring

Covers basic concepts, methods and techniques associated with the practice of recreation therapy. Students will understand and apply the recreation therapy process through intervention and facilitation methods that are critical to helping clients in health and human service settings. The goal is to assist students in developing the ability to use recreation, leisure and play in recreation therapy programs as interventions in the treatment process.

RPTA 119. Recreation Therapy Management and Advancement of the Profession. 3 Units
Prerequisite(s): BIO 25, CHDV 30, PSYC 168, RPTA 105, RPTA 106, RPTA 115, RPTA 116, RPTA 117 and RPTA 118; or instructor permission.
Term Typically Offered: Fall, Spring

Examination of existing recreation programs in clinical settings (acute care hospitals, rehabilitation centers, state hospitals, skilled nursing facilities, intermediate care facilities, etc.); review of standards and regulations pertaining to recreation programs, development of recreation therapy programs, review of the roles of practitioners in related disciplines. Review of intervention techniques, program organization, management, and advancement of the profession and professional ethics.

RPTA 120. Leisure Education. 3 Units
Prerequisite(s): RPTA 106.
Term Typically Offered: Fall, Spring

History, scope and process of leisure education. A survey of guidance theories and procedures, including assessment techniques, program development, implementation and evaluations. The role of leisure education in diverse leisure delivery systems and with diverse populations. Legal, ethical, and professional aspects of leisure education.

RPTA 121. Innovations in Recreation for Health and Wellness. 3 Units
Term Typically Offered: Fall, Spring

This course provides an introduction to the outcomes and benefits of engagement in recreation, parks, and tourism activities. Examines how play, recreation, and engagement in nature, travel, and social activities contribute to enhancing the health and wellness of individuals and society. Innovative trends and issues will be explored from a holistic health perspective looking at quality of life.

RPTA 122. Perspectives On Leisure. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Understanding Personal Development (E), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Basic philosophical, historical, psychological and scientific foundations and developments in leisure and recreation theory; review of the cultural forces, institutions and theories that affect individuals and society.

RPTA 124. The Science of Nature Engagement and Human Health & Wellbeing. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer

This course examines contemporary and emerging research evidence on human health and wellbeing impacts from nature engagement. It is anecdotally understood that spending leisure time outdoors is beneficial, but public understanding of the science behind this phenomenon is lacking. Areas of scientific literature covered include relevant scientific theories, validity of evidence-based forms of nature engagement, and mechanistic pathways of benefits. Analyzes the scientific research methodologies utilized globally and impacts on equity issues for different population groups¿ access to nature-based activities.

RPTA 125. Leisure, the Individual, and Contemporary Society. 3 Units
Prerequisite(s): Students must have passed the WPE or Eng 109W/E prior to enrollment in RPTA 125
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Provides an understanding of the social science of leisure in contemporary society by examining the philosophical, socio-cultural, ethical, economic, behavioral, political and historical dimensions of leisure; exploration of the interrelationship between individuals, groups, and society in the context of leisure. Course also examines beliefs, values, and social structures, and compares and contrasts them with individual and social influences such as race, ethnicity, gender, gender expression, sexuality, age, economic status and ability.

RPTA 126. The Science of Play. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

Play is a basic biological drive as integral to our health as eating or sleeping. While we learn to play as children, it is scientifically proven to be valuable beyond that. When we engage in play, it changes us physiologically, psychologically, emotionally, and increases our health and wellbeing. The course investigates competing scientific literature and analyzes research methodologies, including theories, consequences of mediated play for children and adults, and the impacts of access, equity, and diversity for different populations.

Note: The course will be a lecture format.

RPTA 128. Recreation Services for Diverse, Underserved and Underrepresented Populations. 3 Units
Term Typically Offered: Spring only

Examines how recreation service providers work with diverse segments of the community. Class will examine a variety of populations that have been underserved and that may be at risk. Examines the impact of factors such as racism, sexism, classism, ageism, ableism and heterosexism that affect access to programs and services for diverse populations.
RPTA 129. Youth Development in Recreation, Parks & Tourism. 3 Units
Term Typically Offered: Fall, Spring

This course will focus on examining contemporary issues and trends related to youth development and recreation in the United States. Students will be introduced to theories of youth development, the role of recreation professionals, and the dynamics of community organization practices and actions. Students will explore the role of the recreation and leisure service practitioner in bringing about community change and how to apply those frameworks to recreation-based settings. Students will learn about the importance of engaging youth in the process of program planning and development.

RPTA 130. Community Sport Programming. 3 Units
Term Typically Offered: Fall, Spring

This course emphasizes sport as a program component of community-based recreation services in both public and private settings. Students will develop skills related to successful sport program development, implementation, and evaluation, through in-class lecture, site visits, and student-developed projects. Additional topics will include promotion, funding, staffing, purchasing, and maintenance as related to managing sport programs.

RPTA 131. Morale Welfare and Recreation (MWR): Military Recreation Services. 3 Units
Term Typically Offered: Fall, Spring

Students develop an understanding of the administration and programming of Morale, Welfare and Recreation Services for individuals serving in the military and their families. Recreation facilities and programs for all branches of the military, including the US Army, US Navy, US Marines, US Air Force and US Coast Guard, are covered. The course utilizes lectures, experiential exercises, class discussions, and visits to military installations.

RPTA 132. Campus Recreation. 3 Units
Term Typically Offered: Fall, Spring

This course introduces students to campus recreation programs. Students will be introduced to theories of student development in these recreational settings; the organizational context and history of recreational programs within a college setting; and the range of programming, facilities, and managerial duties within campus and base recreation. This will provide a great starting point for students preparing for a profession on campus, institutional and/or military recreation, or students wanting to broaden their knowledge in the overall field.

RPTA 136. Program and Event Planning in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 32.
Term Typically Offered: Fall, Spring

The program/event planning process will be described and explained. Relevant principles and methods will be identified. Students will develop a program/event plan for a local organization. Field trips may be required. Field trip(s) may be required.

RPTA 137. Community Organization. 3 Units
Term Typically Offered: Fall, Spring

Study of institutions and leisure service systems within the community, and the dynamics of community organization practices and actions. The role of the recreation and leisure service practitioner in bringing about community changes. Defining and promoting citizen participation through advisory council membership, survey applications, and public hearing attendance.

RPTA 139. Conference and Meeting Planning. 3 Units
Prerequisite(s): Restricted to declared RPTA majors and minors or instructor permission
Term Typically Offered: Fall only

Analyzes this varied, growth industry. Considers the range of conferences and meetings, from small corporate retreats to international conventions. Topics include: the scope of the industry, the role of convention centers, hotel and resort based meeting facilities, organizations that hold meetings and the nature of those meetings, meeting planning and the role of the professional planner and industry related careers. Field trips may be required. Field trip(s) may be required.

RPTA 148. Experiential Education in Outdoor Recreation Settings. 3 Units
Term Typically Offered: Spring only

Exposes the students to theoretical and philosophical concepts of experiential education and provides a means through which they can put theory into practice in outdoor recreation settings. Using methods such as demonstrations, observation, presentations, and discussions, the course will explore the history and current trends of experience-based learning.

RPTA 149. Developing and Programming Adventure Experiences. 3 Units
Term Typically Offered: Fall only

Provides students with the working knowledge needed to produce enriching and fulfilling adventure leisure experiences. In order to most effectively aid and assist others in the process of maximizing their leisure experiences, the student of leisure must first know how to maximize these experiences for and within themselves. Therefore, students will be participating in leisure adventure experiences so they can be as effective as possible when developing and programming leisure adventure experience opportunities for others.

RPTA 150. Ecology Of Resource Areas. 3 Units
Term Typically Offered: Fall

Study of the fundamentals of ecology, silvics, soil science and manipulations of an ecosystem with emphasis on the whole biota as it relates to outdoor recreation areas. Designed to provide an understanding of the scientific basis for and the operational rationale of manipulation of natural resources for a variety of recreation uses.

RPTA 151. Visitor Management in Recreation Areas. 3 Units
Term Typically Offered: Fall

Visitor safety in recreation areas as it relates to the role and functions of management. Emphasis is given to principles and current legislation in hazard reduction, deviant behavior, liability, law enforcement, and other related topics.

RPTA 152. Law Enforcement for Forest and Park Rangers. 3 Units
Term Typically Offered: Spring

State, county and federal park rangers and wardens differ from other peace officers in that they are trained to protect visitors and natural resources on the public lands. This course offers a survey of topics related to the Peace Officer level of rangers across America's diverse public land systems, with an emphasis on career opportunities in park, forest, and wildlife management.
RPTA 153. Environmental Interpretation. 3 Units
Term Typically Offered: Fall, Spring
Connecting visitors to natural, cultural, and historic resources is the primary focus of this course. Theories, principles and techniques are covered focusing on interpreting park and protected area values to people during their leisure. Personal and non-personal communication techniques will be practiced. Field sites in and around the Sacramento region will be visited to understand the diverse nature of the practice of interpretation. Designed for ranger naturalists, park interpretive staff, teachers, camp leaders, outdoor educators, and recreation program staff.

RPTA 154. Management of Recreation Facilities. 3 Units
Term Typically Offered: Fall only
An introduction to aspects of recreation facility administration for several facility types, including campus recreation facilities, health clubs, community centers, park facilities and aquatic centers. Course topics include administration techniques related to staffing and outsourcing, the roles of the facility manager, analyzing financing sources, best practices in facility maintenance, and issues related to facility design. The course utilizes class discussions, guest speakers and facility site visits on and off campus.

RPTA 156. Administration in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 105.
Term Typically Offered: Fall, Spring
Designed to provide the student with various in-depth perspectives regarding the use of management/administrative process in recreation, parks and tourism.

RPTA 157. Professional Organization Leadership. 3 Units
Prerequisite(s): RPTA 30, RPTA 32, and RPTA 105, or instructor permission
Term Typically Offered: Fall, Spring
This course is designed to introduce students to the historical and philosophical foundations of professionalism, and provide the necessary conceptual and technical competencies to organize and lead a successful professional organization/association. Political, legal and ethical issues will be discussed as well as the functions and roles of professional organizations/associations. The relationship between professionalism and advocacy will be examined.

RPTA 158. Traumatology: An Introduction to Posttraumatic Growth. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring
Traumatic and challenging life events occur. Although there are levels and degrees of significance and damage, when these events happen, individual survivors, families, friends, health care professionals and communities are affected. This life science course uses critical experiences and observations, pre-existing assumptions, trauma informed care, neuroscience, genetics and contemporary research to analyze and compare ideas and practices involving current rehabilitation models in an effort to guide survivors toward personal resilience, grit and posttraumatic growth (PTG).

RPTA 159. Human Resources Management in the Hospitality Industry. 3 Units
Prerequisite(s): RPTA 80 or Instructor Permission.
Term Typically Offered: Spring only
Comprehensive study of personnel management in today’s hospitality profession, familiarizing students with many of the functions related to recruiting, selecting, orienting, training, and retaining outstanding lodging industry staff. Additionally, the course familiarizes students with the effects of rising labor costs, increasing competition for quality staff, changing employees attitudes, evolving guest expectations, and a proliferation of new laws that impact human resources policies and activities.

RPTA 160. Revenue Management for Hospitality. 3 Units
Prerequisite(s): RPTA 61 or Instructor Permission.
Term Typically Offered: Spring only
Revenue management is critical to the hospitality industry due to the perishable nature of a service-based product. This course introduces students to topics related to revenue management in hospitality and teaches students techniques to manage revenue in a dynamic hospitality environment, all with the goal of managing profits for the company. Capacity management, demand and revenue forecasting, discounting, overbooking practices, channel management, and pricing execution for the hospitality operations are discussed.
Overview of the historical and philosophical foundations of the commercial recreation field. Identification of providers of commercial recreation goods and services. Analyzes current functions and trends in the operation of commercial leisure enterprises.

RPTA 182. Travel And Tourism. 3 Units
Term Typically Offered: Fall only

Examination of the history, significance and nature of travel and tourism in the world with emphasis on the U.S. Analyzes economic, cultural and social factors underlying development and growth of travel and tourism and a review of related research. Identification and description of travel and tourism service providers including their organization, financing and management practices. Prerequisite: Declared RPTA majors and minors only or instructor permission

RPTA 183. Marketing Recreation Services. 3 Units
Prerequisite(s): RPTA 30 or instructor permission
Term Typically Offered: Fall, Spring

Fields of recreation (including therapeutic, commercial, municipal, etc.), tourism and hospitality, while diverse, all offer products that are primarily intangible. The management and marketing of such service products can differ profoundly from those of goods products (often the focus of traditional business programs). Addresses the nature of the service product and services marketing in the people intensive, experiential world of recreation.

RPTA 184. Hospitality Administration. 3 Units
Prerequisite(s): Restricted to declared RPTA major and minors or instructor permission
Term Typically Offered: Spring only

Introduces students to resorts and hotels and their position within the tourism and hospitality industries. The scope of the hospitality industry and various issues concerning the successful development of a hospitality product will be discussed. Prepares students to engage in an internship or employment in this or a related industry, including restaurants and retail. It also helps these and other students to reinforce concepts and skills learned elsewhere by providing concrete, real-world examples of marketing and management methods.

RPTA 185. Advanced Seminar in Commercial Recreation Administration. 3 Units
Prerequisite(s): RPTA 180, RPTA 105 and RPTA 183; RPTA 183 may be taken concurrently; or instructor permission.
Term Typically Offered: Fall, Spring

In-depth analysis of the management of recreational business on a for-profit basis. Focuses on advanced topics, analytical skills, and problem solving in the management arena.

RPTA 187. Food Tourism. 3 Units
Prerequisite(s): RPTA 80 or Instructor Permission.
Term Typically Offered: Spring only

Tourists are increasingly motivated to travel for food and drink. Visiting the location and touring the production facilities is also important. This course provides an overview of the global culinary and gastronomic tourism industry, focusing on the ability of a destination to market itself (both people and place) through food. The various social and cultural contexts in which gastronomic tourism takes place are discussed as well as positive and negative impacts of global and local gastronomic tourism (food tourism).

RPTA 188. Sacramento Region Craft Beer Industry Tourism. 3 Units
Prerequisite(s): Declared RPTA major or minor, or instructor permission.
Term Typically Offered: Fall only

Introduction to visitation and tourism related to California’s craft beer industry, specifically in the Sacramento region. This course will provide students with a basic knowledge of craft beer as one of several local products that combine to create a unique agritourism selling proposition for Sacramento. Tourism-related products (beer festivals and contests, beer trails, beer bikes, and beer apps), hospitality (brewery tasting rooms and beer retail), as well as beer laws, and beer pairings will also be discussed.

Note: Must be 21 or over to enroll in the course. Field Trip(s).

Field trip(s) may be required.

RPTA 189. California Wine and Agri-Tourism. 3 Units
Prerequisite(s): Restricted to declared RPTA majors and minors or instructor permission
Term Typically Offered: Spring only

Introduction to the wine tourism and agri-tourism industries, specifically in the region surrounding Sacramento. Emphasis on wine regions, wineries as event stages, wine mythology and wine in popular culture. Additionally, the course will cover the role of agricultural festivals, related agri-tourism products, slow-food, specialty crop tourism, winery and farm retail, culinary destinations, wine list creation, ag natural tourism products and the role of agri-tourism as part of Sacramento’s cultural identity.

RPTA 191. Service Learning Option for Recreation, Parks and Tourism Administration Courses. 1 Unit
Term Typically Offered: Fall, Spring

Individual goals, activities, and academic requirements for community service work and the service-learning credit option are outlined in a Service Learning Option/Contract agreed upon and signed by the student, instructor, and agency sponsor. Enrolled students are required to attend mid-semester and final learning assessment workshops and to complete written evaluations. Credit for the course awarded only if contract and course requirements are completed. Credit/No Credit
RPTA 195B. Partial Internship: Recreation and Park Management. 4 Units
**Prerequisite(s):** RPTA 1, RPTA 30, RPTA 32, RPTA 42, RPTA 101, RPTA 105, RPTA 106, RPTA 109, RPTA 110, RPTA 136 and approval of academic advisor and internship coordinator.
**Term Typically Offered:** Fall, Spring

Supervised part-time or short-term internship in a recreation, park or tourism organization or business. Supervision is provided by faculty and also by personnel at the host site.

**Note:** Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195D. Recreation Therapy Internship. 10 - 15 Units
**Prerequisite(s):** BIO 25, CHDV 30, PSYC 168, RPTA 1, RPTA 30, RPTA 102, RPTA 106, RPTA 110, RPTA 115, RPTA 116, RPTA 117, RPTA 118, RPTA 119, and RPTA 136; completion of required administrative paperwork in the semester prior to internship, approval of major advisor.
**Term Typically Offered:** Fall, Spring

Supervised full-time therapeutic internship in a recreation, park or tourism organization or business. Supervision is provided by faculty and also by certified personnel at the host site. Meets the professional certification requirements at the national or state levels.

**Note:** Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195G. Partial Internship: Hospitality and Tourism Management. 4 - 6 Units
**Prerequisite(s):** RPTA 1, RPTA 30, RPTA 61, RPTA 80, RPTA 82, RPTA 101, RPTA 105, RPTA 106, RPTA 110, RPTA 136, and approval of academic advisor.
**Term Typically Offered:** Fall, Spring, Summer

Supervised part-time or short-term internship designed to give students an increased understanding of the nature and scope of industry operations. Supervision is provided by the faculty and the cooperating agencies.

**Note:** Refer to the HTM Internship Manual for procedures and requirements.

RPTA 195R. Internship: Recreation, Park and Nonprofit Management. 10 - 15 Units
**Prerequisite(s):** RPTA 1, RPTA 30, RPTA 32, RPTA 42, RPTA 60, RPTA 62, RPTA 101, RPTA 105, RPTA 106, RPTA 110, RPTA 136 and approval of academic advisor and internship coordinator.
**Term Typically Offered:** Fall, Spring, Summer

Supervised, part-time work experience in a recreation, park, or nonprofit agency designed to give students an increased understanding of the nature and scope of industry operations. Supervision is provided by the faculty and by the cooperating agencies.

**Note:** Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195Q. Partial Internship: Recreation, Park and Nonprofit Management. 4 - 6 Units
**Prerequisite(s):** RPTA 1, RPTA 30, RPTA 32, RPTA 42, RPTA 60, RPTA 62, RPTA 101, RPTA 105, RPTA 106, RPTA 110, RPTA 136 and approval of academic advisor and internship coordinator.
**Term Typically Offered:** Fall, Spring, Summer

Supervised, part-time work experience in a recreation, park, or nonprofit agency designed to give students an increased understanding of the nature and scope of industry operations. Supervision is provided by the faculty and by the cooperating agencies.

**Note:** Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 196U. Advanced Leadership in Service Organizations. 3 Units
**Prerequisite(s):** RPTA 30 and RPTA 32, graduate student status, or instructor permission.
**Term Typically Offered:** Fall, Spring, Summer

To attain an overview of the leadership roles and responsibilities of the field of Recreation, Park & Tourism Administration. Gain a philosophical and contextual overview of leadership in the leisure services profession. Examination of various leadership techniques within the following recreation-based settings including Outdoor & Natural Resources, Community Recreation - Municipal and Non-Profit Organization, Hospitality and Tourism, and Recreational Therapy.

RPTA 198. Co-Curricular Activities. 1 - 3 Units
**Prerequisite(s):** Approval of an instructor and the Department chair.
**Term Typically Offered:** Fall, Spring

Co-curricular activities related to the subject matter and professional concerns of Recreation and Leisure Studies. For example, students may earn credit by participating as a tutor or discussion leader for recreation and leisure studies classes or a teacher or leader in programs offered by community organizations.

**Note:** The course may be repeated three times for a maximum total of 3 units. Students can enroll for a class that counts as 1, 2 or 3 units. No more than 3 units of RPTA 198 may be used to meet the major requirements.

Credit/No Credit
RPTA 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of an instructor and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work. Can be repeated six times for a maximum total of 6 units. Students can enroll for a class that counts as 1, 2 or 3 units. No more than 6 units of RPTA 198 and RPTA 199 in combination may be used to meet major requirements.

Credit/No Credit

RPTA 200A. Orientation to Graduate Studies in Recreation, Hospitality, Parks, and Nonprofit Organizations. 1 Unit
Prerequisite(s): Restricted to MS in Recreation, Hospitality, Parks, & Nonprofit Management students
Term Typically Offered: Fall, Spring, Summer

This course covers several topics related to the M.S. degree program in Recreation, Hospitality, Parks, and Nonprofit Management. Topics include expectations of the graduate program and different options for the culminating experience. This course will review several other aspects important to graduate students' work in the RPTA department, including department and university deadlines and paperwork, library and campus resources, Office of Graduate Studies resources, scholarships, life-school balance, graduate school terminology, and financial aid and funding resources.

Credit/No Credit

RPTA 200B. Culminating Experience Preparation in Recreation, Hospitality, Parks and Nonprofit Management. 2 Units
Prerequisite(s): RPTA 200A
Term Typically Offered: Fall, Spring, Summer

This course provides students with faculty and peer support for the process of developing their thesis, culminating project or comprehensive exam. This includes the clarification of expectations, familiarization with research resources, and support provided through feedback in a structured environment.

Credit/No Credit

RPTA 200C. Foundations of Recreation, Hospitality, Parks, and Nonprofit Management. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course examines the foundation and role of recreation, hospitality, parks, and nonprofit management on the society. Discussions will address the historical, political, social and economic impact on the recreation, hospitality, parks and nonprofits industry. Students will identify evidence-based practice in the literature and identify theories associated in recreation, hospitality, parks, and nonprofit management.

RPTA 200D. Advanced Leadership in Service Organizations. 3 Units
Prerequisite(s): RPTA 30 and RPTA 32, graduate student status, or instructor permission.
Term Typically Offered: Fall, Spring, Summer

To attain an overview of the leadership roles and responsibilities of the field of Recreation, Park & Tourism Administration. Gain a philosophical and contextual overview of leadership in the leisure services profession. Examination of various leadership techniques within the following recreation-based settings including Outdoor & Natural Resources, Community Recreation - Municipal and Non-Profit Organization, Hospitality and Tourism, and Recreational Therapy.

RPTA 201. Advanced Studies in Leisure, Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 200
Term Typically Offered: Fall, Spring

The purpose of this course is to move students beyond conceptual foundations of leisure, recreation, parks and tourism administration to more theoretically advanced aspects of the field. In this course, students will pursue an in-depth exploration of the theories and research related to leisure, recreation, parks and tourism.

RPTA 202. Policies, Trends, and Issues in Recreation, Hospitality, Parks, and Nonprofit Organizations. 3 Units
Term Typically Offered: Fall, Spring, Summer

Major environmental and recreational issues and problems affecting the recreation, hospitality, parks, and nonprofit field are discussed, analyzed, and evaluated. Ramifications involving the policy-making and planning processes of major federal, state, and local agencies involved with recreation, hospitality, parks, and nonprofit delivery services are also covered.

RPTA 203. Advanced Management in Recreation, Hospitality, Parks and Nonprofit Organizations. 3 Units
Term Typically Offered: Fall, Spring, Summer

Examination of contemporary resources, techniques, and tools available to managers in various types of RHPN organizations. Leadership and management are broad areas and a class such as this cannot realistically provide a full overview of all the skills necessary to effectively manage an organization in the 21st Century. What we can achieve is to identify and discuss some skills, techniques, tools, and issues that are particularly important to the management of organizations within the broad recreation field.

RPTA 204. Advanced Research Methods in Recreation, Hospitality, Parks, and Nonprofit Management. 3 Units
Term Typically Offered: Fall, Spring, Summer

Provides an analysis of major research methods used in recreation, hospitality, parks, & nonprofit organizations. Addresses basic and applied research orientations, research designs, research proposals, data collection tools and methods, data analysis, and reporting of research findings.

RPTA 206. Liability and Risk Management in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

In-depth analysis of the principles of legal liability as they pertain to recreation, parks and tourism administration. An examination of the pervasive nature of risk as it pertains to the provision of recreation, parks and tourism programs and opportunities, and the concepts and methods of risk management. Includes field trips, mock trials or other related activities. Field trip(s) may be required.
RPTA 206A. Introduction to Inclusive Recreation & Recreation Therapy. 3 Units
Term Typically Offered: Fall, Spring, Summer
Addresses the etiology and nature of common disabling conditions and examines issues of leisure participation and inclusion for underrepresented populations. Topics include: attitudinal barriers, advocacy, normalization, universal design, activity analysis and modification, and legislation. Including an emphasis on leadership, supervision, and organizational development of inclusive and therapeutic recreation programs.

RPTA 208. Liability and Risk Management in Recreation, Parks and Tourism. 3 Units
Term Typically Offered: Fall, Spring
In-depth analysis of the principles of legal liability as they pertain to recreation, parks and tourism administration. An examination of the pervasive nature of risk as it pertains to the provision of recreation, parks and tourism programs and opportunities, and the concepts and methods of risk management. Includes field trips, mock trials or other related activities. Field trip(s) may be required.

RPTA 209. Seminar in Advanced Leisure Education. 3 Units
Term Typically Offered: Fall, Spring
Surveys current and historical perspectives of leisure education from a multicultural and life span viewpoint. Current modes of service delivery will be discussed as they relate to leisure theories. Methods of leisure education provision in diverse settings from school-park collaboratives, retirement and rehabilitation centers, to corporate wellness will be investigated. Development, implementation and management of viable leisure education services will be covered as well presentation, training and consultation skills.

RPTA 263. Grant Writing for Social, Community, and Human Service Organizations. 3 Units
Term Typically Offered: Fall, Spring
A detailed examination of grant writing as a means of augmenting agency revenues for social, community and human service organizations. Course focuses on techniques and strategies used for developing grant proposals, managing grants, and finding funders. Students will develop a full grant proposal including an evaluation and budget plan. Graduate students will conduct an in-depth comparison grant writing processes and budget analyses.
Note: Students may not take both RPTA 163 and RPTA 263 for credit.

RPTA 264. Leadership and Fundraising for Nonprofit Organizations. 3 Units
Term Typically Offered: Fall, Spring, Summer
The purpose of this course is to provide the principles and concepts of nonprofit leadership with an emphasis on youth and human service agencies. This course will explore and provide a historical and philosophical foundations of nonprofit organizations; board/committee development and operation; and the various roles of human service professionals as they relate to the nonprofit field. This course will consist of lectures, readings, discussion, guest speakers, nonprofit agency visitations, active learning exercises, and a community-learning component.

RPTA 284. Hospitality Administration. 3 Units
Term Typically Offered: Fall, Spring, Summer
Introduces students to resorts and hotels and their position within the tourism and hospitality industries. The scope of the hospitality industry and various issues concerning the successful development of a hospitality product will be discussed. Prepares students to engage in an internship or employment in this or a related industry, including restaurants and retail. It also helps these and other students to reinforce concepts and skills learned elsewhere by providing concrete, real-world examples of marketing and management methods.

RPTA 295. Practicum. 3 - 6 Units
Prerequisite(s): Approval of major advisor.
Term Typically Offered: Fall, Spring
Graduate internship experiences in a practical setting.
Note: Open only to graduate students. Can be repeated two times for a maximum total of 6 units. Students can enroll for a class that counts as 3, 4, 5 or 6 units. No more than 6 units of RPTA 295 and RPTA 299 in combination may be used to meet degree requirements.
Credit/No Credit

RPTA 299. Individual Study. 1 - 6 Units
Prerequisite(s): Approved petition filed in the department office.
Term Typically Offered: Fall, Spring
Individual project, problem, practical study, survey, and/or directed reading on the graduate level.
Note: Can be repeated six times for a maximum total of 6 units. Students can enroll for a class that counts as 1, 2, 3, 4, 5 or 6 units. No more than six units of RPTA 295 and RPTA 299 in combination may be used to meet major requirements.
Credit/No Credit

RPTA 500A. Culminating Experience: Thesis. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of graduate coordinator.
Term Typically Offered: Fall, Spring
Successful completion of a thesis approved for the Master's degree. Student must have approval from first reader.
Credit/No Credit

RPTA 500B. Culminating Experience: Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of graduate coordinator.
Term Typically Offered: Fall, Spring
Successful completion of a project approved for Master's degree. Student must have approval from the first reader.
Credit/No Credit

RPTA 500C. Culminating Experience: Comprehensive Exam. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring
Successful completion of a comprehensive examination approved for Master's degree.
Credit/No Credit
**ROTC - Aerospace Studies (AERO)**

**AERO 1A. Heritage and Values of the United States Air Force I.**  1 Unit  
Term Typically Offered: Fall, Spring  
Orientation to the Air Force and AFROTC. This is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, organizations of the Air Force, and benefits of Air Force membership. Students will be required to complete an oral and written project.

**AERO 1B. Heritage and Values of the United States Air Force II.**  1 Unit  
Term Typically Offered: Fall, Spring  
Continuation of AERO 1A: completes students' orientation to the Air Force. Specific topics include evolution of Airpower, Air Force structure, and social media and the Air Force. Students will be required to complete an oral and written project.

**AERO 21A. Team Leadership and Fundamentals I.**  1 Unit  
Term Typically Offered: Fall, Spring  
Focuses on laying the foundation for teams and leadership in the Air Force. Topics include skills that will allow cadets to improve their leadership on a personal level and within a team. Cadets will experience initial field training preparation. Communication skills will be emphasized and include: public speaking, writing, and class participation.

**AERO 21B. Team Leadership and Fundamentals II.**  1 Unit  
Term Typically Offered: Fall, Spring  
Continuation of AERO 21A. The purpose of this course is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadets to AFROTC offer candidates. Topics include conflict management, human relations, building teams. Communication skills will be emphasized and include: speaking, writing, and class participation.

**AERO 99. Special Problems.**  1 - 4 Units  
Term Typically Offered: Fall, Spring  
Academic study and evaluation in specified topics associated with aerospace development, technology, and doctrine.  
**Note:** Open only to those students who appear competent to complete assigned work and who meet prerequisites established by the Department of Aerospace Studies. Approval in writing by the Department Chair required.

**AERO 135A. Leading People and Effective Communication I.**  3 Units  
Term Typically Offered: Fall, Spring  
This course teaches cadets advanced skills and knowledge in management and leadership. Also a survey of selected concepts, principles, and theories on decision making, change management, effective supervision and Air Force diversity issues. Students will be given the opportunity to improve speaking and writing skills.

**AERO 135B. Leading People and Effective Communication II.**  3 Units  
Term Typically Offered: Fall, Spring  
Continuation of AERO 135A. Survey of selected concepts, principles, and theories on negotiating in teams, bias, creating a vision, public affairs, and professionalism. Students will be given the opportunity to improve speaking and writing skills.

**AERO 145A. National Security and Preparation for Active Duty I.**  3 Units  
Term Typically Offered: Fall, Spring  
Provides an overview of the role of the military in our national security policy and processes. It includes an analysis of the roles of the three branches of government as they relate to national security; organization of the Air Force as well as other branches of the military; an overview of military ethics; how the Air Force deploys; and a discussion of global current events which impact our national security. Students are expected to participate in class discussions/complete written/oral presentations.

**AERO 145B. National Security and Preparation for Active Duty II.**  3 Units  
Term Typically Offered: Fall, Spring  
Continuation of AERO 145A. Presentation of critical issues facing today's military professionals. A wide variety of topics are discussed including: the military legal system; the laws of armed conflict; security issues; personal finance; professional/unprofessional relationships; information warfare; and issues pertinent to the first assignment after commissioning into the Air Force. Students will be expected to participate in class discussions and complete a written and oral presentation.

**AERO 199. Special Problems.**  1 - 4 Units  
Term Typically Offered: Fall, Spring  
Academic study and evaluation in specified topics associated with aerospace development, technology, and doctrine.  
**Note:** Open only to those students who appear competent to complete assigned work and who meet prerequisites established by the Department of Aerospace Studies. Approval in writing by the Department Chair required.

**Russian (RUSS)**

**RUSS 1A. Elementary Russian.**  5 Units  
Term Typically Offered: Fall only  
Russian language beginning course with primary emphasis on the development of communication skills. Russian life and culture are introduced through readings and video/films.

**RUSS 1B. Elementary Russian.**  5 Units  
**Prerequisite(s):** RUSS 1A or instructor permission.  
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement  
Term Typically Offered: Fall, Spring  
Continuation of RUSS 1A. Continued emphasis on communication skills and continued integration of cultural-historical components with the language learning experience.

**RUSS 2A. Intermediate Russian.**  4 Units  
**Prerequisite(s):** RUSS 1B or instructor permission.  
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement  
Term Typically Offered: Fall, Spring  
Continuation of RUSS 1 with further emphasis on the development of communication skills. Meets the Foreign Language Graduation Proficiency Requirement.
Social Work (SWRK)

SWRK 95. Introduction to Social Work. 3 Units
Term Typically Offered: Fall, Spring

Provides an overview of the social work profession and of social welfare systems especially in relation to marginalized populations. Also introduces a generalist perspective to social work practice with emphasis on professional development. Students are exposed to the values and ethics of social work, as well as the important ideologies that have shaped social welfare and social work.

Note: Includes a 30 hour volunteer experience to aid in assessing student's appropriateness for the profession. A grade of "C" or better is required before taking SWRK 140A.

SWRK 102. Crosscultural Theory and Practice: Issues of Race, Gender and Class. 3 Units
Term Typically Offered: Fall, Spring, Summer

Increase student awareness of social, political, economic, and cultural diversity. Addresses patterns and consequences of discrimination and oppression as well as theoretical and practice content and strategies for social change.

SWRK 110. Statistics and Research for Social Workers. 3 Units
Term Typically Offered: Fall, Spring, Summer

Descriptive and inferential statistics, sampling, probability distribution, introduction to research methods, relationship of statistics to research methods, illustrations drawn from the field of human services.

SWRK 111. Research Methods and Program Evaluation. 3 Units
Prerequisite(s): SWRK 110.
Corequisite(s): SWRK 140B or SWRK 140C.
Term Typically Offered: Fall, Spring

User oriented research methods focusing on locating, understanding, and using the professional research literature relevant to the development of skills for the human service practitioner; and methods of evaluating ones own practice and agency programs.

SWRK 118. Chemical Dependency and Social Work Practice. 3 Units
Term Typically Offered: Fall, Spring

Introduction to social work practice with the alcoholic/addicted individual or family. The ecological framework will be utilized for studying alcohol and drug dependence and its prevention/intervention. Emphasis will be placed on addiction as a biopsychosocial problem with a special focus on oppressed and marginalized populations.

SWRK 125A. Human Behavior and the Social Environment: Theory. 3 Units
Prerequisite(s): SWRK Majors only with Junior status; completion of pre-major BIO 1, BIO 10, BIO 20 or ANTH 1; and ECON 1A, ECON 1B, PSYC 2, or SOC 1; and CRJ 1, GERO 100, SOC 3 or SOC 10.
Term Typically Offered: Fall only

Theory forms the foundation of all social work practice, attempting to explain complicated human behavior in interaction with diverse environments. This course examines core theories of human behavior, families, small groups, organizations, social movements, and human society from a variety of social science disciplines. Each theory will be critically examined in respect to application towards diverse groups and the vulnerable populations that social workers serve.
SWRK 125B. Human Behavior and the Social Environment: The Life Course. 3 Units
Prerequisite(s): SWRK majors only and SWRK 125A
Term Typically Offered: Spring only

This course examines growth and development with special focus on lifespan from birth through old age in the context of family, community, complex organizations, and society. With technological, economic, political and ecological systems rapidly changing, the course will also examine the effects on the interplay between human life and the environment.

SWRK 126. Theories of Criminal Behavior. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Analyzes various theories in terms of their logic, historical origins, and policy implications. Focus on developing a critical framework.

SWRK 129. Human Sexuality in Social Work Perspectives. 3 Units
Term Typically Offered: Fall only

Examines psycho-social-cultural influences on sexual identity and sexual behavior; analyzes problems confronting the victims of sex-discrimination and oppression; considers education and treatment programs.

SWRK 132. Social Work and Spirituality. 3 Units
Term Typically Offered: Spring only

This course examines how spirituality serves as a liberating, and at times constricting force in the lives of our clients and communities. Competencies for both assessing and engaging in discussions about our clients’ spiritual world as well as self-awareness regarding social work practitioner spiritual orientations are emphasized. Diverse spiritual and religious backgrounds (including those who consider themselves non-spiritual or non-religious) are welcomed and celebrated in the classroom.

SWRK 134. Crimes Without Victims. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Focuses on the study of particular behavior defined as criminal, including addiction, pornography, homosexuality, prostitution and abortion. The role of morality is examined.

SWRK 136. Poverty and Homelessness in America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Analyzes social theory and its relationship to the generation and retention of institutional poverty. Within this context, public and private welfare programs serving low-income populations will be examined.

SWRK 137. The Child and the Law. 3 Units
Term Typically Offered: Spring only

Both civil and criminal aspects of the relationship of the applicability and effect of the law on minors, including juvenile court, wardship and dependency, liability for torts, the child and divorce.

SWRK 138. Violence In The Family. 3 Units
Term Typically Offered: Fall only

Provides basic information on victims and perpetrators of violence in the family. The focus is on child maltreatment, spouse/partner battering, abuse of the elderly, and the roles and responsibilities of social workers responding to family violence.

SWRK 140A. Social Work Practice. 3 Units
Prerequisite(s): SWRK 95 and SWRK 125A; SWRK majors only; Junior standing and a grade of “C” or better in all previous SWRK courses
Corequisite(s): SWRK 125B
Term Typically Offered: Fall, Spring

Provides an introduction to the profession and generalist social work practice with individuals, families, groups, organizations, and communities. Practice skills focus on application of the planned changed process from an empowerment approach.

SWRK 140B. Social Work Practice. 3 Units
Prerequisite(s): SWRK 95, SWRK 102, SWRK 125B, SWRK 140A, SWRK 150; SWRK majors only; senior standing; Minimum grade of "C" in all previously completed SWRK courses; GWAR certification or having met university writing requirements
Corequisite(s): SWRK 195A
Term Typically Offered: Fall, Spring

Generalist practice through a cross-cultural lens. Focuses on culturally competent relationship building, assessment, and intervention with individuals, organizations and communities.

SWRK 140C. Social Work Practice. 3 Units
Prerequisite(s): SWRK 195A and SWRK 140B
Corequisite(s): SWRK 195B
Term Typically Offered: Fall, Spring

Focuses on family intervention through an emphasis on strengths-based case management and children and youth issues. Group work processes and intervention examined through experiential and formal learning.
Corequisite: SWRK 195B.

SWRK 144. Working with LGBTQ+ Publics. 3 Units
Prerequisite(s): Be a junior or senior undergraduate. Paired.
Term Typically Offered: Spring only

This elective provides students with an in-depth understanding and critical framework to conduct applied work with individuals who are LGBTQ+, and their kinship networks and communities. Various perspectives (e.g., person-in-environment, historical, political, psychological, critical theory, intersectional) are utilized to better understand contemporary issues, social and health inequities, and lived experiences of LGBTQ+ people. Assignments deepen self-awareness in service of professional development. This course is open to upper division undergraduates of all majors, and to all graduate students.

SWRK 150. Welfare In America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines the history, purpose, structure and costs of current American social welfare policy and programs and the role of social work in policy and program development.
SWRK 151. Health Services and Systems. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines the delivery of health and mental health service with a focus on problems experienced by economically disadvantaged and oppressed populations.

SWRK 153. Child Welfare Services. 3 Units
Term Typically Offered: Fall, Spring

Provides basic information on the recognition and treatment of problems of children in the home, school and community, and on the public and private social services and laws which promote and protect the welfare of children.

SWRK 191. Exploration of Veteran Studies: An Ethnographic Approach. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

Through the review of ethnographic works, qualitative research articles and other significant recent literature on veterans’ issues, students are introduced to the qualitative research process. Most significantly students simultaneously gain knowledge of the issues and challenges faced by veterans returning from combat as they transition to civilian life as well as the best practices in supporting positive transitions from combat to civilian life. Students will develop analytical thinking skills and writing skills for preparing literature reviews.

SWRK 195A. Field Instruction + Integration Seminar. 6 Units
Prerequisite(s): SWRK 102, SWRK 125A, SWRK 125B, SWRK 140A and SWRK 150 and permission of the Field Director (or designee).
Corequisite(s): SWRK 140B
Term Typically Offered: Fall only

Two-semester sequence of instruction that takes place in an approved social service agency. Under the supervision of a certified field instructor, students demonstrate their ability to apply knowledge, skills, critical thinking and professional competencies required of undergraduate generalist social workers. Students are required to provide own transportation to and from agency.
Note: Enrollment is limited to students who have secured an approved field placement; Field placements begins in the first week of January.
Credit/No Credit

SWRK 195B. Field Instruction + Integration Seminar. 6 Units
Prerequisite(s): SWRK 95, SWRK 102, SWRK 125A, SWRK 125B, SWRK 140A, SWRK 140B, SWRK 195A and SWRK 150; and permission of the Field Director (or designee).
Corequisite(s): SWRK 140C
Term Typically Offered: Spring only

Two-semester sequence of instruction that takes place in an approved social service agency. Under the supervision of a certified field instructor, students demonstrate their ability to apply knowledge, skills, critical thinking and professional competencies required of undergraduate generalist social workers. Students are required to provide own transportation to and from agency.
Note: Enrollment is limited to students who have secured an approved field placement; Field placements begins in the first week of January.
Credit/No Credit

SWRK 198. Co-Curricular Activities. 1 - 3 Units
Prerequisite(s): Permission of the Undergraduate Social Work Coordinator.
Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and intellectual concerns of the Division of Social Work, including service on division policy-making committees and participation in ASI approved organizations.
Credit/No Credit

SWRK 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor of the project and Division Chair.
Term Typically Offered: Fall, Spring

Independent research, project or directed reading.
Note: Open to students who are capable of independent work.
Credit/No Credit

SWRK 202. Social Work and Diverse Populations. 3 Units
Term Typically Offered: Fall, Spring

Prepares students to understand cultural and social diversity. Addresses theoretical and practice dimensions of social work with diverse and oppressed and vulnerable people for personal and social empowerment in behalf of human dignity and social justice.

SWRK 204A. Social Work Practice I. 3 Units
Corequisite(s): SWRK 295A.
Term Typically Offered: Fall, Spring

Building on the liberal arts framework and using the ecological model, this course introduces students to generalist social work practice with individuals, families, small groups, organizations, disadvantaged populations, communities, and society.

SWRK 204B. Social Work Practice II. 3 Units
Prerequisite(s): SWRK 204A, SWRK 295A.
Corequisite(s): SWRK 295B.
Term Typically Offered: Fall, Spring

Broadens the ecological perspective to address economic and political issues, social stratification, and racism as they impact practice with at-risk populations; promoting change at multiple levels of intervention.
SWRK 206A. Multi-Level Practice for Behavioral Health. 3 Units
Prerequisite(s): SWRK 204B, SWRK 295B.
Corequisite(s): SWRK 296A
Term Typically Offered: Fall only
Builds upon content of SWRK 204B and provides advanced knowledge and skills for mental health assessments, diagnosis and treatment and to provide long-term and acute mental health treatment, respond to acute trauma and indigent populations.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 206B. Multi-Level Practice for Behavioral Health. 3 Units
Prerequisite(s): SWRK 206A, SWRK 296A
Corequisite(s): SWRK 296B
Term Typically Offered: Spring only
Builds upon content of SWRK 206A and provides advanced knowledge and skills for mental health assessments, diagnosis and treatment and to provide long-term and acute mental health treatment, respond to acute trauma and indigent populations.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 207A. Multi-Level Practice for Children & Families. 3 Units
Prerequisite(s): SWRK 204B, SWRK 295B.
Corequisite(s): SWRK 297A
Term Typically Offered: Fall only
Builds upon content of SWRK 204B and provides advanced knowledge and skills in areas affecting children and families with a specific focus on training students in Child Protective Services, abuse, neglect and human trafficking.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 207B. Multi-Level Practice for Children & Families. 3 Units
Prerequisite(s): SWRK 207A, SWRK 297A.
Corequisite(s): SWRK 297B
Term Typically Offered: Spring only
Builds upon content of SWRK 207A and provides advanced knowledge and skills in areas affecting children and families with a specific focus on training students in Child Protective Services, abuse, neglect and human trafficking.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 208A. Multi-Level Practice for Health & Aging. 3 Units
Prerequisite(s): SWRK 204B, SWRK 295B
Corequisite(s): SWRK 298A
Term Typically Offered: Fall only
Builds upon content of SWRK 204B and provides advanced knowledge and skills for hospital and hospice care, respond to the needs of Baby Boomers, support diversity in aging choices while assisting clients with management of health care, housing and quality of life optimization.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 208B. Multi-Level Practice for Health & Aging. 3 Units
Prerequisite(s): SWRK 208A, SWRK 298A.
Corequisite(s): SWRK 298B
Term Typically Offered: Spring only
Builds upon content of SWRK 208A and provides advanced knowledge and skills for hospital and hospice care, respond to the needs of Baby Boomers, support diversity in aging choices while assisting clients with management of health care, housing and quality of life optimization.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 210. Methods of Social Research. 3 Units
Prerequisite(s): Undergraduate social statistics course.
Term Typically Offered: Fall, Spring
Examination of quantitative and qualitative methods of social work research. Includes problem formulation, selection of various conceptual frameworks, research designs, sampling, collecting data, experimental design and computer technology.

SWRK 213. Public Child Welfare Practice. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B.
Term Typically Offered: Fall, Spring
Integrates the concepts and skills learned in Advanced Practice, Advanced Policy, and Research courses of the MSW program and applies to the specific client population of public child welfare agencies. Required for Title IV-E stipend students; open to others on basis of space availability.

SWRK 215. Mediation & Restorative Justice. 3 Units
Term Typically Offered: Fall, Spring
The course examines the principles, policies, goals, and practice of mediation and restorative justice in social work settings including the adult and juvenile criminal justice systems, family court, child welfare, schools, mental health, health, and community dispute resolution centers. Students will learn mediation and restorative justice practice skills to work effectively with individuals as both clients and providers of services, as well as within various institutions, systems, and communities.

SWRK 218. Chemical Dependence: Strategies and Tactics for Social Work Practice. 3 Units
Term Typically Offered: Fall, Spring
Designed to increase the sensitivity of graduate social work students to the major intervening variables contributing to the problem of chemical dependence in contemporary American society.

SWRK 219. Social Work Practice in Health Care Settings. 3 Units
Term Typically Offered: Fall, Spring
Provides intervention strategies useful in health care settings. Individual, family and group practice strategies are presented as well as discharge planning, advocacy, ethnically sensitive issues, and collaboration practice within hospital settings.

SWRK 221. Community Organizing Practice. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B or instructor permission.
Term Typically Offered: Fall, Spring
Focuses on intervention at the community level with a special emphasis on grass roots organizing and advocacy.
SWRK 223. DSM New Developments in Psychodiagnosis. 3 Units
Term Typically Offered: Fall, Spring

Designed to give practitioners and students hands-on experience in using the DSM IV Manual. Videotapes, case vignettes, and small group discussions used.

SWRK 224. Advanced Mental Health Practice. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B or instructor permission.
Term Typically Offered: Fall, Spring

Examines a variety of theoretical views on adaptations of childhood and adulthood with accompanying models for assessment and treatment. Explores current views on intra-psychic and interpersonal functioning utilized in mental health settings.

SWRK 225. Advanced Group Work Methods: Process and Intervention Strategies. 3 Units
Term Typically Offered: Fall, Spring

Covers small group theory and process, and group method in a variety of settings, with emphasis on group development.

SWRK 226. Family Intervention: Contemporary Issues in Social Work Practice. 3 Units
Term Typically Offered: Fall, Spring

Critically addresses the origins and contemporary context and models of interventions with families.

SWRK 228. Clinical Intervention in Sexual Abuse. 3 Units
Term Typically Offered: Fall, Spring

Presents an intervention system that can assist professionals to work with sexually abusive families and victims of sexual abuse. Assessment, planning, and treatment are described and methods of intervention demonstrated.

SWRK 232. Spirituality and Social Work. 3 Units
Term Typically Offered: Fall, Spring

Considers the role of spirituality in the socialization process of the professional as well as the client by examination of spirituality, values, ethics, principles, and philosophies as influences on personal and professional interactions.

SWRK 235A. Theoretical Bases of Social Behavior. 3 Units
Term Typically Offered: Fall, Spring

Examines the growth, change and interaction of individuals, families and groups, organizations, and communities with special attention to lifespan development and systems theory.

SWRK 235B. Theoretical Bases of Social Behavior. 3 Units
Prerequisite(s): SWRK 235A.
Term Typically Offered: Fall, Spring

Focuses on major personality theories; principal theories of health, illness and disordered behavior; child and family dynamics; and theories of group and organizational behavior.

SWRK 238A. Issues and Practice in Schools. 3 Units
Prerequisite(s): Admission to the College of Social Work Program.
Corequisite(s): SWRK 204C, SWRK 295C.
Term Typically Offered: Fall, Spring

Introduces the student to the field of school social work in its dynamic social, educational, legal, political, and human complexity. Examines the challenges of rapid social and demographic change in California as well as the need for restructuring education and innovative responses.

Note: Required for Pupil Personnel Services Credential.

SWRK 238B. Issues and Practice in Schools. 3 Units
Prerequisite(s): SWRK 204C, SWRK 238A, SWRK 295C.
Corequisite(s): SWRK 204D, SWRK 295D.
Term Typically Offered: Fall, Spring

Continuation of SWRK 238A, course examines classroom management, case assessment, alternative education practices, discipline and attendance law, impediments to individual development as well as case studies, interagency collaboration, new community partnerships, and media and high technology uses.

Note: Required for Pupil Personnel Services Credential.

SWRK 244. Working with LGBTQ+ Publics. 3 Units
Prerequisite(s): MSW I or II, or other graduate student. Paired.
Term Typically Offered: Spring only

This elective provides students with an in-depth understanding and critical framework to conduct applied work with individuals who are LGBTQ+ and their kinship networks and communities. Various perspectives (e.g., person-in-environment, historical, political, psychological, critical theory, intersectional) are utilized to better understand contemporary issues, social and health inequities, and lived experiences of LGBTQ+ people. Assignments deepen self-awareness in service of professional development. This course is open to upper division undergraduates of all majors, and to all graduate students.

SWRK 245. Death, Grief And Growth. 3 Units
Term Typically Offered: Fall, Spring

Death and the process of terminating life seen from the social, cultural, personal and medical perspectives. Comparisons of competing, contradictory or complementary views of death among specific religions, social classes, ethnic groups and superstitions and taboos connected with the dead.

SWRK 250. Social Welfare Policy and Services. 3 Units
Term Typically Offered: Fall, Spring

Analyzes contemporary social welfare policy and the ways in which policy is carried out through a broad spectrum of agencies and services, in a historical and philosophical context relevant to professional social workers. This course meets the foundation competencies of social welfare policies and services within the specific context of thinking, reading and writing in social work policy practice.

Note: Graduate Writing Intensive (GWI) course.
SWRK 252.  Advanced Policy for Behavioral Health.  3 Units  
Prerequisite(s): SWRK 250.  
Term Typically Offered: Fall only  
Builds on the foundation content of SWRK 250 with deeper knowledge of diverse theoretical and practical approaches to policy analysis, development, implementation, and evaluation to empower communities and individuals, to advance and protect human rights, and to optimize social justice. Focuses on behavioral Health policy and services, involuntary commitment, access to care and patients' rights, financing and organization of Behavioral Health services, legislation and community engagement around Behavioral Health issues.

SWRK 253.  Advanced Policy for Children & Families.  3 Units  
Prerequisite(s): SWRK 250  
Term Typically Offered: Fall only  
Builds on the foundation content of SWRK 250 with deeper knowledge of diverse theoretical and practical approaches to policy analysis, development, implementation, and evaluation to empower communities and individuals, to advance and protect human rights, and to optimize social justice. Focuses on sociopolitical issues, laws and court decisions, history and role of government in public child welfare practice, children's and parents' rights, child custody, sexual abuse laws, and emancipation.

SWRK 254.  Advanced Policy for Health & Aging.  3 Units  
Prerequisite(s): SWRK 250  
Term Typically Offered: Fall only  
Builds on the foundation content of SWRK 250 with deeper knowledge of diverse theoretical and practical approaches to policy analysis, development, implementation, and evaluation to empower communities and individuals, to advance and protect human rights, and to optimize social justice. Focuses on the policies and services for meeting the health, economic, psychological, and the social needs of the older adults and those in health care settings.

SWRK 258.  Advanced Policy - Children and Families.  3 Units  
Prerequisite(s): SWRK 251.  
Term Typically Offered: Fall, Spring  
Building upon SWRK 251, this course examines the history of child and family services, introduces the students to theories and methods of policy analysis, and focuses on analysis of selected federal, state, and local policies specifically relevant to children and families, as well as how social workers influence policy formulation and implementation.  
Note: Required for title IV-E students.

SWRK 259.  International Social Work.  3 Units  
Term Typically Offered: Fall, Spring

SWRK 261.  Grant Writing and Resource Development.  3 Units  
Term Typically Offered: Fall, Spring  
Prepares students for resource and grant proposal development as well as grant project management and evaluation. Students will develop various skills including how to identify and communicate with appropriate funding sources, conceptualize, write and submit a grant proposal, prepare a grant budget; administer a grant funded program; and evaluate program outcomes, and peer reviews of grant proposals.

SWRK 262.  Social Work Practice in Rehabilitation.  3 Units  
Prerequisite(s): Admission to MHSA cohort and instructor permission.  
Term Typically Offered: Fall, Spring  
Reflects the current best practices of psychosocial rehabilitation, and pays particular attention to the nuances of those practice expectations within the context of the Mental Health Services Act of 2004. The course requirement for all students who are recipients of the mental health stipend in the Division of Social Work.

SWRK 268.  Advanced Clinical Social Work with Older Adults.  3 Units  
The focus of this course is on specialized practice with aging clientele. The curriculum is intended to help students adapt social work theory (person-in-environment), practice principles, standards and values to practice with older adults. This course includes a critical analysis of the theoretical underpinnings of gerontological thought and assists students to view aging through multiple perspectives with an examination of physiological, psychological and sociological phenomenon.

SWRK 295A.  Field Instruction.  3 Units  
Prerequisite(s): Must be classified graduate Social Work student and approval of the Field Director or designee.  
Corequisite(s): SWRK 204A.  
Term Typically Offered: Fall, Spring  
Field Instruction  
Note: Enrollment is limited to students who have secured an approved Field placement

SWRK 295B.  Field Instruction.  4 Units  
Prerequisite(s): SWRK 204A and 295A; Must be classified graduate Social Work student and approval of the Field Director or designee.  
Corequisite(s): SWRK 204B.  
Term Typically Offered: Fall, Spring  
Field Instruction  
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 295E.  Post Master's Pupil Personnel Services Fieldwork.  3 Units  
Prerequisite(s): Admission to Post Master’s PPS program.  
Term Typically Offered: Fall, Spring  
School based sites for the development of Pupil Personnel Services skills. Two days per week.  
Credit/No Credit

SWRK 295F.  Post Master's Pupil Personnel Services Fieldwork.  3 Units  
Prerequisite(s): Admission to Post Master's PPS program.  
Term Typically Offered: Fall, Spring  
School based sites for the development of Pupil Personnel Services skills. Two days per week.  
Credit/No Credit
SWRK 296A. Field Instruction for Behavioral Health. 5 Units
Prerequisite(s): SWRK 204B, SWRK 296B
Corequisite(s): SWRK 206A
Term Typically Offered: Fall only

Field Instruction for Behavioral Health
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 296B. Field Instruction for Behavioral Health. 5 Units
Prerequisite(s): SWRK 206A, SWRK 296A
Corequisite(s): SWRK 206B
Term Typically Offered: Spring only

Field Instruction for Behavioral Health
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 296D. Advanced Social Work Practice with Persons with a Developmental Disability. 3 Units
The definition, incidence, etiology, and prevention of developmental disabilities will be presented. This course examines the life course needs of people with developmental disabilities including the collaboration of families and community, the role of social workers and other health professionals in the California Regional Center System and the Department of Developmental Disabilities, as well as presenting general issues related to service delivery systems, advocacy movements, the Department of Developmental Disabilities, as well as presenting general issues related to service delivery systems, advocacy movements, criminal justice system involvement, mental health, sexuality issues as well as social policy issues.

SWRK 297A. Field Instruction for Children & Families. 5 Units
Prerequisite(s): SWRK 204B, SWRK 297A.
Corequisite(s): SWRK 207A
Term Typically Offered: Fall only

Field Instruction for Children & Families
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 297B. Field Instruction for Children & Families. 5 Units
Prerequisite(s): SWRK 207A, SWRK 297A.
Corequisite(s): SWRK 207B
Term Typically Offered: Spring only

Field Instruction for Children & Families
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 298A. Field Instruction for Health & Aging. 5 Units
Prerequisite(s): SWRK 204B, SWRK 298A.
Corequisite(s): SWRK 208A
Term Typically Offered: Fall only

Field Instruction for Health & Aging
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 298B. Field Instruction for Health & Aging. 5 Units
Prerequisite(s): SWRK 208A, SWRK 298A, and advancement to candidacy
Corequisite(s): SWRK 208B
Term Typically Offered: Spring only

Field Instruction for Health & Aging
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval by faculty sponsor and division director.
Term Typically Offered: Fall, Spring

Individual research and directed reading. Written report required.
Credit/No Credit

SWRK 500. Culminating Experience. 2 - 4 Units
Prerequisite(s): Advanced to candidacy. SWRK 210.
Term Typically Offered: Fall, Spring

Completion of either: A. Thesis (an original contribution to knowledge) OR B. Research Project (addition to technical/professional knowledge or application of knowledge through case study, field study, documentary report, substantial annotated bibliography, or article of publishable quality) OR C. Directed Study and Comprehensive Examination (seminar, portfolio, examination).

SWRK 501. Advanced Research Methods. 2 Units
Prerequisite(s): SWRK 202, SWRK 204A, SWRK 204B, SWRK 210, SWRK 250 and Advancement to Candidacy
Term Typically Offered: Fall, Spring

This course offers a classroom structure to project-based research education. Class includes both qualitative and quantitative study design, theory construction, advanced methods of data analysis. This course expands on the knowledge gained from SWRK 210 (Methods of Research). Students will experience a mixture of advanced research content including: quantitative research designs, sampling, data collection and analysis, advanced quantitative research designs, sampling, data collection and analysis.

SWRK 502. Integrative Capstone Project. 2 Units
Prerequisite(s): SWRK 501
Term Typically Offered: Fall, Spring

This course is designed to reflect the student's proficiency in the core competencies of the social work profession. The focus of this course is the identification of a social work problem, developing a research design which appropriately addresses the problem, and presentation of the findings. Students demonstrate professional competencies in: ethics, communication, diversity, theory, research, direct and indirect and indirect practice, leadership and organizational processes and evidence of a professional self.

Sociology (SOC)

SOC 1. Principles of Sociology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to the field of sociology; its basic concepts and principles; the analysis and explanation of culture, personality, social institutions, social change, population, social processes and collective behavior.
SOC 2. You, Sociology and the University. 1 Unit
Term Typically Offered: Fall, Spring
This course is an introduction for students to the campus, campus resources, and the department of Sociology at Sac State. The goal is to connect students to information and resources to help them be successful as students in the Sociology program at CSUS, as well as clarify the process for success within, throughout, and beyond the Sociology program. This course is for all sociology majors. The class will be taught as a hybrid class.
Note: Required to be taken during first semester students changes or adds the major.
Credit/No Credit

SOC 3. Social Problems. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Introduction to major social problems in the U.S., with an emphasis on systemic problems, such as economic, racism and sexism. Problems in major social institutions such as the family, social services, criminal justice and the environment are also addressed.

SOC 5. Exploring Issues Facing Contemporary Families. 3 Units
Term Typically Offered: Fall, Spring
An exploration of social issues that contemporary families face every day with an integration of the life course perspective and sociopsychological viewpoint. Issues covered may include varying family constellations, mate selection, intimacy, communication, adjustment, cohesion, attachment, aging, foster care and adoption, gender, race/ethnic/cultural influences, social stratification, family/partner violence, health, and social policy.

SOC 8. Sense and Nonsense in Social Issues and Research. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring
Introduces basic steps in the research process and/or basic steps in critically evaluating discussions on social issues. Students are taught to recognize common errors through the analysis of non-technical applied research and/or through newspapers and sociological articles about social issues and problems. Emphasizes the logical steps involved in thinking critically about social research and/or social problems such as quality of operational definitions, weaknesses in research design, sampling errors, value assumptions, logical consistency between premises and conclusions, and the structure of arguments.

SOC 10. Issues in Crime and Social Control. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Introduces the concepts utilized by sociologists in the analysis of controversial issues in crime and social control, e.g., norms, roles, subcultures, labeling, social conflict, social stratification, racism, sexism, etc. Particular attention is paid to sources of data and trends over time. Issues covered include, but are not limited to: capital punishment, drugs and drug policy, domestic violence, abortion, driving under the influence, police use of deadly force, private prisons and juvenile justice reform.

SOC 101. Introduction to Statistics for Sociologists. 4 Units
Prequisite(s): Sociology majors only
Term Typically Offered: Fall, Spring, Summer
Provides students with an overall view of the role and techniques of statistics in the presentation and interpretation of social science data. Lectures emphasize descriptive statistics: measures of central tendency and variability, and association and correlation. Introduction is given to statistical inference: sampling distributions, hypothesis-testing, and estimation. Lab sessions provide demonstrations and training in the practical application of concepts and techniques dealt with in lectures. Students learn to use the computer as an aid in data processing and analysis.

SOC 101X. Collaborative Practice for SOC 101. 1 Unit
Corequisite(s): SOC 101.
Term Typically Offered: Fall, Spring
SOC 101X Collaborative Practice for SOC 101. Discussion, 1 hour. Students concurrently enrolled in SOC 101 work collaboratively on, and discuss, problem sets designed by the SOC 101 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student understanding and success in SOC 101.
Credit/No Credit

SOC 102. Research Methods in Sociology. 4 Units
Prequisite(s): SOC 101; Sociology majors only
Term Typically Offered: Fall, Spring, Summer
Students will be introduced to the basic steps in research; problem definition, research design, sampling, data collection methods, and analysis. Laboratory exercises reinforce methodological processes, including finding and evaluating existing research studies, operationalizing concepts, developing questionnaires, and analyzing primary data. Students will learn how to process and analyze both qualitative and quantitative data, including analytic induction, manipulation of computerized data files, bivariate and multivariate analysis, table construction, and preparation of written research reports. Lab exercises reinforce computer and statistical skills.

SOC 103. Advanced Sociological Analysis. 3 Units
Prequisite(s): SOC 101 and SOC 102
Term Typically Offered: Fall, Spring
An advanced course in research design and analysis. Introduces students to advanced data analysis techniques and how to use them to investigate social problems and issues. Students will build on the knowledge they have accumulated in previous courses in sociological research methods and theory to design and complete a research project. Specific methodological strategies taught will vary, and could include regression analysis, ethnography, comparative-historical methods, qualitative interviewing, evaluation research and longitudinal survey analysis.
Note: May be repeated for credit

SOC 106. Births, Deaths and Borders. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Studies population including growth and decline, fertility and mortality trends, migration, human ecology, and the interrelationship of population and socioeconomic change.
SOC 110. Urban Life and Problems. 3 Units
Term Typically Offered: Fall, Spring
Takes a political economic approach to urban development, with special emphasis on the roles played by various social groups and institutions. Particular attention is given to the effects of urban growth, oppositional movements to growth and the global developments that affect urban conditions.

SOC 118. Chicano Community. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring
Analyzes the institutions, norms, values, and traditions of the Chicano community. Included is an examination of the Chicano community's progress in mainstream American life with attention to the effect of ethnocentrism, racism and class.

SOC 120. Ethnic and Race Relations. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring
Analyzes relations among various racial, religious, nationality, and gender groups as they interact with racism, ethnocentrism and class in the U.S. and the world.

SOC 122. Immigration Studies. 3 Units
Term Typically Offered: Fall, Spring
Examines the social phenomena of labor migration, immigration, and transnationalism, and places their origins and development in the context of political-economic national inequalities. Advances an understanding of why societies experience migration, immigration, and transnationalism, and evaluates competing and complementary theoretical frameworks explaining these migratory processes, particularly as they relate to the U.S. Special attention will be given to race, gender, and class relations as impacted by labor migration processes.

SOC 123. Black Studies in Sociology. 3 Units
Term Typically Offered: Fall, Spring
Introduces students to the sociological analysis of Black American life in the U.S. -- the complex phenomena of Black issues, emerging theories of race, and the cumulative scholarship on black identity, experience, socio-economic status, and social organization. Focus is on the original contributions of social scientists to Black Studies in Sociology.

SOC 124. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring
Examines the nature and forms of social justice and injustice. Key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies are addressed. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academe and social activism in achieving social justice. Cross listed as ANTH 130, ID 124, ENVS 124, ETHN 124 and FACS 124. Only one may be counted for credit.

SOC 125. Social Inequalities. 3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring
Examination of the ways race, class and gender, as well as the intersection of all three, affect the distribution of valued resources in a society. Other social inequalities such as age, sexual orientation, or nationality, etc. may also be examined. Attention is given to struggles to change or preserve economic and political inequalities.

SOC 126. Sociology of Gender. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Examines how gender designation of “male” and “female” impacts an individual’s life; explores the social construction of masculinity and femininity in the family, school, workplace, everyday interactions, and within racialized and colonized societies; studies the consequences of gender difference and inequality that result in violence and abuse, sexual harassment, hate crimes, wage differentials and unequal opportunities.

SOC 127. Men, Masculinity and Society. 3 Units
Term Typically Offered: Fall, Spring
Introduces students to the field of men and masculinity. Examines the construction of masculinity in sports, family, work and other social relationships, showing how it affects and is affected by people, institutions and society. Explores the diverse experiences based on race, class, occupation, physical ability and sexuality, and the implications for people from such diverse groups.

SOC 128. Sociology Of Sexuality. 3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring
Studies sexuality including historical and cultural differences in sexual attitudes, beliefs and behaviors. Also examines the mutual influence of sexuality and social institutions, such as the family, the economy, politics and religion.

SOC 129. Social Change and Migration in Latin America. 3 Units
Term Typically Offered: Fall, Spring, Summer
This course examines the social, political, and economic changes many societies underwent in Latin America throughout the 20th and 21st century, the role the U.S. played in shaping these changes, how this past has shaped today's U.S.-Latin American relations, and how this interconnectedness has shaped migration to the U.S. Focus will be on specific case studies and using a sociological perspective to study and understand these social changes globally and locally.

SOC 130. Political Sociology. 3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring
Analyzes political order and change from the viewpoint of cultural values and the institutional structure of societies. Examines group behavior patterns related to ideology, elites, masses, classes, movements, parties, and other power groups. Surveys differing theories and methodologies for the study of political processes across cultures and societies.
SOC 133. Sport in a Global Perspective. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring
Examines sport in a global context, focusing on the dynamic nature of sports in response to changes in society. Addresses the effect sport has on both the society and the individual, from socialization to nationalism. Focuses on both participants (youth, amateurs, professionals) and spectators (parents, fans, etc.) at all levels of involvement, from community to international competition. Highlights cross-cultural differences in the relationships between sport and other social institutions such as government, corporations, and the media.

SOC 134. Sociology of Film. 3 Units
Term Typically Offered: Fall, Spring
Introduces the "Sociological Imagination" by linking the personal histories found in films to larger social structures. The evolution of important contemporary global and domestic social issues is discussed by analyzing the sociological content of major motion pictures. The socio-historical development of the American film industry is also examined to explore its ideological role in challenging and perpetuating various forms of class, race, and gender discrimination.

SOC 135. Sociology of Popular Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring
Analyzes social processes that produce popular culture by contrasting interrelationships between institutional power structures and collective behavior. Examines theories of popular culture, mass movements, and individualism; social change, cultural hegemony, sub-cultures, and organizational studies.

SOC 136. Social Movements. 3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring
Analyzes old and new social movements -- pre-political and political, cultural and identity types -- class, labor, feminist, ethnic, environmental, left and right. Challenges by movements to institutional order. Surveys differing theories and methodologies for the study of movements and degree of change (reform, revolutionary) across cultures and societies.

SOC 137. Sociology of Science. 3 Units
Term Typically Offered: Fall, Spring
Examines paradigm changes of science in society and how views of science and technology are socially constructed. Analyzes the representations of scientists, scientific inquiry, and technological innovation. Explores the ways in which science has driven social change, and vice-versa.

SOC 138. Environmental Sociology. 3 Units
Term Typically Offered: Fall, Spring
Studies human society, the natural environment, and their mutual interactions. Examines environmental sociology at several levels, from the micro level of individual communities to the meso level of government policies to macro theoretical considerations. Analysis of environmental issues in a global context also included.

SOC 139. Animals in Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Examines social relationships between humans and animals as pets, companions, workers, entertainers, and food. Analyzes the representations of animals. Studies our relationships with animals both on the level of social groups and as individuals. Applies sociological approaches to the study of human-animal relationships, including the social movements around animal rights.

SOC 140. Sociology of Education. 3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring
Examines the organization and functions of educational institutions; the rise of mass education and changes in educational systems to the present; the role of teachers, parents, and schools in education; the impact of gender, race, and class on educational outcomes and processes.

SOC 144. Sociology of Health and Illness. 3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring
Examines the social contexts of health, illness, and medical care. Emphasizes the debates and contrasting perspectives that characterize the sociological study of health and illness. Topics include the social, global, environmental, and occupational factors influencing health and illness; the politics surrounding physical and mental illness; the patient’s perspective on illness; ethical issues in medicine as they relate to medical technology; and health care reform. The influence of health status on identity and interaction will also be addressed.

SOC 145. Sociology of Aging. 3 Units
Term Typically Offered: Fall, Spring
Examines the process of aging in the context of social structure and processes. Specifically, it deals with such issues as the age structure of society, social values and norms that define the aged, social stratification and aging, social institutions and the aged, theoretical and methodological issues in social gerontology.

SOC 146. Social Psychology. 3 Units
Term Typically Offered: Fall, Spring
Examines major principles governing face to face interaction and their application in understanding the student’s own experience: creating and preserving meaning, “realities” and selves through dramaturgy, negotiation and power; the relationship between status and intimacy; the impact of status resources (such as race and gender) on the status assignment process; the self concept; the role of emotions in social life.

SOC 150. Social Psychology. 3 Units
Term Typically Offered: Fall, Spring
Examines social dimensions — causes and characteristics — of adult crime and deviant behavior in American society. Makes some international comparisons. Police, courts and prisons are examined. Special attention is given to current issues in crime and deviance.
SOC 156. Delinquency. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines social determinants of juvenile delinquency, including family, urban conditions, social-psychological and sociological factors. Analyzes the juvenile justice system, including law enforcement, the courts and community treatment programs.

SOC 157. Issues in Courts and Prisons. 3 Units
Term Typically Offered: Fall, Spring

Sociologically analyzes American courts and prisons from prosecutorial intake through sentencing and incarceration. Emphasis is on the role of social factors (in particular race, class and gender) in decision-making practices at each stage of processing. Topics will include, but are not limited to: preventive detention, prosecutorial intake, plea-bargaining, jury selection, pre-sentence investigation reports, sentencing, and legal reconstruction of the American prison in the modern era.

SOC 158. Sociology of Deviance. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to the history of attempts to define and explain deviant behavior; explains social conditions and processes associated with careers of deviants; examines relationship of deviance to problems of social control.

SOC 160. Asian Societies. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Cross-cultural study focuses on Japanese and Chinese societies and cultures and their influences on other Asian developments. Emphasizes their distinctive institutions, norms, values, and traditions in relation to contemporary social, economic, and political processes.

SOC 162. Middle Eastern Societies and Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Discusses the fundamental aspects of Middle East Societies covering such topics as population, family, women, patterns of living, social stratification, education, economic development, politics and armies in the Middle East.

SOC 163. Conflict, Oil and Development in the Middle East. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines in detail the major sources of conflict in the Middle East with special reference to the Arab-Israeli conflict, the arms buildup in the Arabian-Persian Gulf, energy crisis and the multi-national aspect of Middle East oil. Attempts to discuss the impact of these conflicts on the processes of social and economic development.

SOC 164. Sociology of Globalization. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines globalization and its effect on local societies, including the impact of globalization on local labor and work practices, the social organization of local firms and business enterprises, local social structures such as gender, class, race/ethnicity, and local social patterns such as consumption and leisure activities.

SOC 165. Work and Occupations. 3 Units
Term Typically Offered: Fall, Spring

Examines the social organization of work and economic organization; the rise of industrial society and changes in workplace relations to the present; the role of technology and ideology in the workplace; industrial reforms and alternative forms of economic organization.

SOC 166. The Family. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to the sociology of the family including an examination of the family in various cultures with the emphasis on the American family in all its many forms.

SOC 168. Self and Society. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Examines the relationship between the individual and society: social interaction, human development, behavior in groups and collectivities, personality and social structure. Theories and empirical studies.

SOC 169. Changing American Family. 3 Units
Term Typically Offered: Spring only

Analyzes the American family, past, present, and future, focusing on explanation and consequences of changes in child-bearing, courtship, marriage, and the interrelationships between the individual and the family and society. Focuses on connecting course material to real world organizations and programs in the community that are associated with or linked to families. Per week: lecture two hours; fieldwork in the community two to three hours.

SOC 170. Sociology of Children and Adolescents. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to the sociology of childhood and adolescence, focusing on theoretical foundations, methodological challenges, and empirical examination of youth from preschool through high school. Focuses on peer relations within wider contexts shaped by gender, race, and social class.

SOC 171. Sociology of Religion. 3 Units
Term Typically Offered: Fall, Spring

Acquaints students with the sociological foundations of religion in society. Emphasis is on the history, development and overall structure of the institution of religion, its relation to social, ethnic and class-based groups and its effect on society in general, and how its social development in America differs from other cultures.

SOC 175. Work and Occupations. 3 Units
Term Typically Offered: Fall, Spring

Examines the social organization of work and economic organization; the rise of industrial society and changes in workplace relations to the present; the role of technology and ideology in the workplace; industrial reforms and alternative forms of economic organization.
SOC 176. Labor and the American Social Structure. 3 Units  
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X. 
General Education Area/Graduation Requirement: Writing Intensive  
Term Typically Offered: Fall, Spring  
Introduction to the study of labor in the U.S., including the nature of work, characteristics of the work force, and an overview of contemporary labor and industrial relations systems within the framework of current U.S. economic and political developments. 
Cross Listed: LBRS 100; only one may be counted for credit.

SOC 185. Bullying as a Social Experience. 3 Units  
Term Typically Offered: Fall, Spring  
This course educates students on bullying as a social experience, introducing how social forces, environment and context impact the culture of bullying. Students will develop an understanding about how programs and policies impact bullying rates based on social theoretical perspective. Students will gain a better understanding of how research is related to intervention and prevention practices. Then, from a whole school approach, using the resources available to the school, students will implement different components of an anti-bullying program at a school site.

SOC 190. Sociology of Small Groups. 3 Units  
Prerequisite(s): SOC 1 or equivalent.  
Term Typically Offered: Fall, Spring  
Examines social structure and social determinants of behavior in small groups; socialization, social control, social change, leadership, social ranking, social conflict and morale.

SOC 191. Culminating Course in Sociology. 1 Unit  
Prerequisite(s): 85 units need to be completed prior to start of the course.  
Term Typically Offered: Fall, Spring  
The course offers Sociology students a culminating experience that has students reflect on their experience as a student in the sociology major, their success in the learning goals and outcomes of the Sociology program, and ultimately engage with their future career goals and their preparation to reach them. This class will be taught fully online. 
Note: Students are expected to take this class during their second to last semester (the penultimate semester).

SOC 192. Sociological Theory. 3 Units  
Prerequisite(s): SOC 1.  
Term Typically Offered: Fall, Spring  
Surveys the history of sociological theory from Comte to the present.

SOC 193A. Mentoring in Sociology. 1 Unit  
Prerequisite(s): Instructor permission.  
Term Typically Offered: Fall, Spring  
Provides opportunity for freshman, sophomores, and juniors majoring in sociology to be mentored for improved student success and retention. Students receive peer mentoring to facilitate closer integration into campus community through participation in events, organizations, and conferences sponsored by the sociology department. Students learn how to build productive relationships with professors and receive timely advising for better retention and success rates. Course does not count toward sociology major but toward degree requirements. 
Note: May be repeated twice for credit; Three times with exception as determined by the instructor. 
Credit/No Credit

SOC 193B. Peer Mentoring in Sociology. 2 Units  
Prerequisite(s): One year of residency at Sac State; 2.8 GPA required; Open only to Sociology majors.  
Term Typically Offered: Fall, Spring  
Provides opportunities for junior and senior sociology majors to mentor and gain practical out-of-class experience. Students learn the principles of mentoring and contribute to student retention and success and close the retention gap. Course provides practical orientation and guidance for the best practices in mentoring that contribute to a positive campus culture. 
Note: May be repeated twice for credit; Three times with exception to be determined by the instructor. 
Credit/No Credit

SOC 194. Special Topics in Sociology. 3 Units  
Prerequisite(s): SOC 1 or instructor permission.  
Term Typically Offered: Fall, Spring  
Examines contemporary issues and social developments within the research specialization of department faculty. Provides a forum to discuss and evaluate controversies and advancements in the discipline of sociology, including theory and methodology.

SOC 195. Internship and Fieldwork. 1 - 3 Units  
Prerequisite(s): Instructor permission.  
Term Typically Offered: Fall, Spring  
Supervised internship and fieldwork experience in a variety of settings: (1) public or private agencies in the Sacramento community, and (2) ethnic and/or minority communities. Supervision is provided by authorized persons in the field and collaborative supervision is provided by sociology faculty at Sacramento State. 
Credit/No Credit
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Requisite(s)</th>
<th>Term Typically Offered</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SOC 101</td>
<td>Orientation to Graduate Studies in Sociology</td>
<td>1 Unit</td>
<td>Classified graduate status.</td>
<td>Fall, Spring</td>
<td>Describes our graduate program, clearly explains our requirements and standards for successful completion of the M.A., shows students how the profession works and how to work in the profession (public submissions, conference presentations, job searches), and explains how to get through the program in a timely manner with a strong thesis. We will discuss Ph.D. programs and the application process, job opportunities and the role of professional sociologists outside academe.</td>
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<tr>
<td>SOC 198</td>
<td>Linking Statistics Education and Practice</td>
<td>1 - 2 Units</td>
<td>SOC 101 and instructor permission.</td>
<td>Fall, Spring</td>
<td>Advanced exploration of the scholarship of learning as applied to sociological methods and/or data analysis. Students will work independently on an applied semester project, but will also attend agreed upon number of computer lab hours each week and engage in course activities with a focus on how to best structure learning opportunities and apply content. Note: Admission requires approval of professor and Department Chair. No more than 3 units from SOC 195, SOC 198, or SOC 199 combined may be applied to the Sociology upper division major requirement.</td>
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<tr>
<td>SOC 199</td>
<td>Individual Study Projects.</td>
<td>1 - 3 Units</td>
<td>Fall, Spring</td>
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<td>Individual projects or directed reading; open only to students who appear competent to carry on independent work. Admission requires approval of the sponsor of the project and the Department Chair. Credit/No Credit</td>
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<tr>
<td>SOC 200</td>
<td>Orientation and Writing for Sociological Graduate Studies</td>
<td>3 Units</td>
<td>Admission to MA in Sociology program.</td>
<td>Fall only</td>
<td>This course introduces students to our graduate program and provides students with insights into how the profession works. Students will learn about campus and departmental resources that will aid them in their studies. This class fulfills the requirements for the required Graduate Writing Intensive Course and will train students in the skills needed for successfully writing sociological papers at a graduate level. Students will also be introduced to department faculty who will share their research interests and writing strategies.</td>
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<tr>
<td>SOC 200A</td>
<td>Orientation to Graduate Studies in Sociology</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
<td></td>
<td>Describes our graduate program, clearly explains our requirements and standards for successful completion of the M.A., shows students how the profession works and how to work in the profession (public submissions, conference presentations, job searches), and explains how to get through the program in a timely manner with a strong thesis. We will discuss Ph.D. programs and the application process, job opportunities and the role of professional sociologists outside academe.</td>
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<tr>
<td>SOC 200B</td>
<td>Thesis Prospectus/Project Preparation Seminar</td>
<td>2 Units</td>
<td>Completion of a minimum of 6 hours of graduate study.</td>
<td>Fall, Spring</td>
<td>Provides students with faculty and peer support for the process of developing a draft of a thesis prospectus or project proposal. This includes the clarification of expectations, familiarization with research resources, and support provided through feedback in a structured environment. Credit/No Credit</td>
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<tr>
<td>SOC 210</td>
<td>Urban Sociology.</td>
<td>3 Units</td>
<td>Classified graduate status.</td>
<td>Fall, Spring</td>
<td>Critically examines major theories, research, and debates in the field of urban sociology, including social ecology, Marxist, subcultural, and postmodernist perspectives. Course materials will be framed within two main themes; the dynamics of cooperation and conflict under urban conditions, and the tension between private interests and public life in urban settings. Methodological emphasis will be on case studies, ethnographic, and social historical analysis.</td>
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<tr>
<td>SOC 215</td>
<td>Data Analysis.</td>
<td>3 Units</td>
<td>SOC 101 or equivalent, or instructor permission.</td>
<td>Fall only</td>
<td>Deals specifically with such issues as the role of research within the discipline, the ethics of conducting research, the rationale behind field and survey methods, the validity and reliability of data collected through these methods and alternative approaches to data collection. Note: Open to classified graduate students in sociology, all others by instructor permission only; Graduate Writing Intensive</td>
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<td>SOC 220</td>
<td>Seminar: Social Change.</td>
<td>3 Units</td>
<td>Classified graduate status in sociology; all others by instructor permission only.</td>
<td>Fall, Spring</td>
<td>Course deals with main theoretical orientations in sociology representing radical, liberal and conservative viewpoints on social change. Examines the historical context of events that affected Western countries such as the Industrial Revolution, French Revolution, and the emergence of nationalism and human rights. Course approach is theoretical, historical and global.</td>
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<tr>
<td>SOC 222</td>
<td>Immigration and Coloniality.</td>
<td>3 Units</td>
<td>Fall, Spring</td>
<td></td>
<td>This course focuses on human migration and its modern origins and development in a global context of political-economic inequalities. The course offers historical, comparative, and theoretical perspectives on immigration and incorporation of immigrants to the United States. It examines competing and complementary theories on migration, and assesses their explanatory power on the basis of historical, empirical, and standpoint evidence. This graduate elective course aligns with various program learning objectives including critical thinking, intercultural knowledge and competency; and inquiry and analysis.</td>
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<tr>
<td>SOC 225</td>
<td>Social Stratification.</td>
<td>3 Units</td>
<td>Classified graduate status in sociology; all others by instructor permission only.</td>
<td>Fall, Spring</td>
<td>Analyzes contemporary issues in stratification literature including class, status, power, sex/gender, identity, ethnicity, mobility, equality/inequality. Discusses differing theories, methodologies, and controversies according to student interests.</td>
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</table>
SOC 226. Sociology of Gender. 3 Units
Term Typically Offered: Fall, Spring

Intended to introduce graduate students to diverse theories that explain gender relations in contemporary society. Provides a critical perspective on how we construct men's and women's identities and how the consequences of such a construction affect institutions, culture and society. Broken up in four sections: origins of gender inequality and issues surrounding research, theoretical perspectives, marginalized groups, and gendered issues in society.

SOC 230. Seminar: Social Organization. 3 Units
Prerequisite(s): Classified graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Analyzes and critiques institutional structure. Studies shared understanding in groups, corporations, communities, institutions or societies and their hierarchical order.

SOC 235. Social Psychology. 3 Units
Prerequisite(s): Open to classified graduate students in sociology, all others by instructor permission only.
Term Typically Offered: Fall, Spring

Examines advanced social psychology. Focuses on symbolic interactionism, ethnomethodology and other recent developments in sociological social psychology, phenomenology, humanistic social psychology and critical reflexive sociology.

SOC 238. Environmental Sociology. 3 Units
Term Typically Offered: Fall, Spring

Examines the complex relationship between human society and its surrounding environment. Theoretical perspectives are complemented by empirical research on environmental issues. Special attention is given to issues relating to the local and regional California environment. Analyzes environmental issues in a global context.

SOC 240. Seminar: Sociological Theory. 3 Units
Prerequisite(s): Classified graduate status in sociology; all others by instructor permission only.
Term Typically Offered: Fall, Spring

Analyzes and critiques terms and issues in social and sociological theory including levels of social reality and differing perspectives - positivism, idealism, realism, post-modernism, feminism, etc.

SOC 255. Social Research in Crime and Deviance. 3 Units
Term Typically Offered: Fall, Spring

Comprehensively reviews and evaluates major sociological theories of crime and deviance, methods of studying crime and deviance, current empirical research in crime and deviance, empirical testing of sociological explanations of crime and deviance, and empirical evaluation of crime and deviance control policy.

SOC 260. Contemporary Issues of the Middle East and North Africa. 3 Units
Term Typically Offered: Fall, Spring

Discusses in-depth several contemporary issues such as the political dimension of Islam, population growth and food security, oil and development, regional conflict, national integration and forces of modernization, etc. The selection of the topics will depend on current events.

SOC 265. Race and Ethnic Relations. 3 Units
Term Typically Offered: Fall, Spring

Examines the social constructs of race and ethnicity as "central organizing principles" in the making and development of our modern world, particularly in the U.S., and how they have interacted with class and gender to create and maintain cultural and material social inequalities. Evaluates competing and complementary theoretical frameworks explaining how race and ethnicity affect individual and group social-structural location (e.g., class position, educational attainment, and political power).

SOC 266. Sociology of The Family. 3 Units
Prerequisite(s): Classified graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Sociologically examines the family, with an emphasis on the contemporary American family. The numerous stages and variations of the family life cycle will be considered, with an emphasis on changes and the causes and consequences of the changes.

SOC 294. Special Topics in Sociology. 3 Units
Term Typically Offered: Fall, Spring

Examines advanced social psychology. Focuses on symbolic interactionism, ethnomethodology and other recent developments in sociological social psychology, phenomenology, humanistic social psychology and critical reflexive sociology.

SOC 295. Internship and Fieldwork. 1 - 3 Units
Prerequisite(s): Classified graduate status in sociology; all others by instructor permission.
Term Typically Offered: Fall, Spring

Supervised internship and fieldwork experience in a variety of settings: (1) public or private agencies in the Sacramento community, (2) ethnic and/or minority communities, and (3) educational institutions including area community colleges and universities. Supervision is provided by authorized persons in the field and collaborative supervision is provided by sociology faculty at Sacramento State. Credit/No Credit

SOC 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work. Admission requires approval of the sponsor of the project and the Department Chair. Credit/No Credit

SOC 500. Culminating Experience. 3 - 6 Units
Prerequisite(s): Advancement to candidacy, successful thesis prospectus hearing, and a minimum 3.0 GPA.
Term Typically Offered: Fall, Spring

Completion of a thesis or a project. Thesis: the 6 unit master's thesis requirement must be completed under the direction of the student's thesis committee. Project: the 6 unit project requirement must be completed under the direction of the student’s project committee.
Sp Ed, Rehab, School Psychology & Deaf Studies (EDS)

EDS 140. Introductory Behavioral Statistics. 3 Units
Term Typically Offered: Fall, Spring
Descriptive and interpretative statistics in education and allied fields. Use of calculators and statistical tables. Lecture three hours.

EDS 202. Seminar in Neurodevelopmental Disabilities. 3 Units
Term Typically Offered: Fall, Spring
Examines topics and issues in neurodevelopmental disabilities and includes educational, clinical, habilitative, therapeutic, and medical perspectives. Focuses on collaborative, interdisciplinary perspectives on educational and related interventions with students who have neurodevelopmental disabilities.

EDS 203. Seminar for Resource Specialists: Management and Delivery of Services. 3 Units
Prerequisite(s): EDS 201, EDS 101 and Special Education Credential.
Term Typically Offered: Fall, Spring
Review of literature, and simulated experience in the various roles of the resource specialist in special education programs in the schools. Professional problem-solving strategies; standards and procedures; model program organizational alternatives; management approaches of resource specialist program (RSP); major developments and trends at Federal, State and local levels; references to legal provisions, rules and regulations in special education.
Credit/No Credit

EDS 213B. Mathematics Curriculum and Instruction in Inclusive Classrooms Lab. 1 Unit
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential Program or permission of respective special education coordinator.
Corequisite(s): EDS 213A.
Term Typically Offered: Fall, Spring
Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 213A) in a setting for students who receive special and/or general education services.
Credit/No Credit

EDS 214A. Social Science Curriculum and Instruction in Inclusive Classrooms. 2 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDS 214B.
Term Typically Offered: Fall, Spring
Prepares mild/moderate/severe and multiple subject teacher candidates to teach history-social science content standards for California public schools to all students, including English Learners and students with disabilities; to use analytical and critical thinking skills in history and social science; and to integrate history-social science topics, themes and concepts with other subject areas. Pedagogical topics include the use of timelines, maps, and artifacts, case studies, simulations, literature, art, multiple perspectives, SDAIE, cooperative projects, and research activities.

EDS 214B. Social Science Curriculum and Instruction in Inclusive Classrooms Lab. 1 Unit
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDS 214A.
Term Typically Offered: Fall, Spring
Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 214A) in a setting for students who receive special and/or general education services.
Credit/No Credit

EDS 215A. Science Curriculum and Instruction in Inclusive Classrooms. 2 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator
Corequisite(s): EDS 215B.
Term Typically Offered: Fall, Spring
Prepares mild/moderate/serve and multiple subject teacher candidates to teach science content standards for California public schools to all students. Give participants the knowledge of basic principles and strategies related to science education appropriate for general education (k-8) teacher candidates. Participants will also develop, implement, and evaluate science curricula appropriate for those students with mild/moderate/severe disabilities. This includes an expanded treatment of science pedagogy, manipulative, technological supports, accommodations, inclusive instructional techniques, and other strategies specially suited to the instruction of English Learners and students with disabilities.

EDS 215B. Science Curriculum and Instruction in Inclusive Classrooms Lab. 1 Unit
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential Program or permission of respective special education coordinator
Corequisite(s): EDS 215A.
Term Typically Offered: Fall, Spring
Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 215A) in a setting for students who receive special and general education services.
Credit/No Credit

EDS 222. Perspectives Workforce Dev. 3 Units
Term Typically Offered: Fall, Spring
Examines the premises of workforce development and advocacy with emphases on adult learning styles and learning communities. Explores the specific needs of the formal and informal vocational, technical and adult learning community in an ever-changing work environment.

EDS 223. Organization Learning Comm. 3 Units
Term Typically Offered: Fall, Spring

EDS 224. WF Assess+Accountability. 3 Units
Term Typically Offered: Fall, Spring

EDS 226. Resource Enhance For WDA. 3 Units
Term Typically Offered: Fall, Spring

EDS 227. Issues Impacting WDA. 3 Units
Term Typically Offered: Fall, Spring
EDS 228.  Sem: Future Workforce Development.  3 Units
Term Typically Offered: Fall, Spring

EDS 250.  Educational Research.  3 Units
Prerequisite(s): Graduate status
Term Typically Offered: Spring only

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Classified students are encouraged to take this course early in their graduate programs.

EDS 252A.  Advanced Teacher Induction Seminar.  2 Units
Prerequisite(s): Admission to Special Education Level II program.
Corequisite(s): EDS 252B.
Term Typically Offered: Fall, Spring

Leads to the development of a Professional Level II Education Specialist Credential induction plan for the support and professional development of the teacher credential candidate as required by the California Commission on Teacher Credentialing. The candidate, the university advisor, and the employer's representative work together to plan course work, and provide individual assistance, and professional development opportunities to address individual performance goals. Seminar.

EDS 252B.  Advanced Teacher Induction Seminar Lab.  1 Unit
Prerequisite(s): Admission to Special Education Level II program.
Corequisite(s): EDS 252A.
Term Typically Offered: Fall, Spring

Level II candidate, university advisor/supervisor and employer's representative work collaboratively to develop a professional plan which relates to the CCTC standards and the individual learning needs of the student. The class is designed as a lab to support the acquisition of all proscribed Level II standards and to support the development of the candidate's professional portfolio for assessment of designated competencies.

EDS 254.  Seminar in Counseling: Work Evaluation.  3 Units
Term Typically Offered: Fall, Spring

Study of the work evaluation process and the modalities utilized, with emphasis on the use of work evaluation in the rehabilitation process.

EDS 265.  Current Issues in Counseling: Disabled.  1 Unit
Term Typically Offered: Fall, Spring

Examination of myths regarding the disabled client. Course includes an exploration of counseling families with a disabled member, the impact of disability upon sexuality and upon interpersonal relationships. Factual data will be presented. The student's attitude toward the disabled will be examined.

EDS 267A.  Advanced Studies in Special Education-Seminar I.  3 Units
Corequisite(s): EDS 267B.
Term Typically Offered: Fall, Spring

For candidates accepted into the Level II Alternative Option Program; skills for in-service training, working with paraprofessionals, coordinating meetings, developing consensus, dealing with conflict and serving as part of collaborative teams; e-mail, use of Listproc and attendance at monthly seminars required; attaining and documenting competencies and developing portfolios related to outcomes of the Level II Mild/Moderate or Moderate/Severe Specialist Credential. Lecture.

EDS 267B.  Advanced Studies in Special Education Seminar I Laboratory.  3 Units
Corequisite(s): EDS 267A.
Term Typically Offered: Fall, Spring

Will be a synthesis and application of course content (EDS 267A) in a setting(s) for students who receive special education services. The 3-unit lab section requires approximately 90 hours of related field-based and/or on-the-job activities. E-mail/Internet access required.

EDS 268A.  Advanced Studies in Special Education-Seminar II.  3 Units
Corequisite(s): EDS 268B.
Term Typically Offered: Fall, Spring

For candidates accepted into the Level II Alternative Option Program; skills for ongoing individualized assessment and curriculum adaptation to meet needs of diverse populations and advanced skills for behavioral management in inclusive settings; e-mail, use of Listproc and attendance at monthly seminars required; attaining and documenting competencies and developing portfolios related to outcomes of the Level II Mild/Moderate or Moderate/Severe Specialist Credentials; individualized planning for candidates who are self-directed and committed to self improvement. Lecture.

EDS 268B.  Advanced Studies in Special Education Seminar II Laboratory.  3 Units
Corequisite(s): EDS 268A.
Term Typically Offered: Fall, Spring

Synthesis and application of course content (EDS 268A) in a setting(s) for students who receive special education services. The 3-unit lab section requires approximately 90 hours of related field-based and/or on-the-job activities. E-mail/internet access required.

EDS 269A.  Collaborative Strategies for Inclusive Practice.  2 Units
Prerequisite(s): CCTC Preliminary Multiple or Single Subject credential.
Sacramento State graduate status or CCE/Open University enrollee.
Corequisite(s): EDS 269B.
Term Typically Offered: Fall, Spring

For candidates seeking to meet Special Education CCTC requirements for Level 2 (Induction) Multiple or Single Subject Teaching Credentials. Candidates must demonstrate skills for ongoing IDEA and State mandates, curriculum adaptation to meet individual needs, and advanced skills for behavioral management in inclusive settings. All activities will be tied to attaining and documenting CCTC Level 2 special education standards through individual portfolios. Assignments will be designed to emphasize an interdisciplinary perspective to collaborative problem solving. E-mail/Internet access required.
EDS 269B. Collaborative Strategies for Inclusive Practice Lab. 1 Unit
Prerequisite(s): CCTC Preliminary Multiple or Single Subject credential. Sacramento State graduate status or CCE/Open University enrollee.
Corequisite(s): EDS 269A.
Term Typically Offered: Fall, Spring
Field-based practice lab (30 hours field). Lab will be synthesis and application of course content in a setting for students who receive special education services. Students will verify experiences across the age-span and in inclusive settings, agencies, and/or other natural environments.
Credit/No Credit

EDS 273A. Instructional Strategies - Mild/Moderate. 2 Units
Prerequisite(s): Admittance into Mild/Moderate Credential or M.A. in Education programs.
Corequisite(s): EDS 273B.
Term Typically Offered: Fall, Spring
Development of knowledge, strategies, and skills in the areas of dyslexia, social skills and transition, and other specific learning challenges for individuals with mild/moderate disabilities.

EDS 273B. Instructional Strategies - Mild/Moderate - Lab. 1 Unit
Prerequisite(s): Admittance into Mild/Moderate Credential or M.A. in Education programs.
Corequisite(s): EDS 273A.
Term Typically Offered: Fall, Spring
Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 273A) in developing instructional strategies for the Mild/Moderate Credential Program area. Students are required to participate in class visitations, student tutoring, and interviews.
Credit/No Credit

EDS 280. Foundational Elements of Adult Learning Disability Intervention. 2 Units
Term Typically Offered: Fall, Spring
Explore and analyze the most common social, emotional and psychological problems of adults with learning disabilities (LD) impacting cognition and learning. Topics include: current definitions, characteristics of learning disabilities (LD), the impact of dual diagnosis, and the collaborative role of the LD specialist regarding issues of professional conduct, ethics, and legality. Differences will be examined between LD and other disability categories such as Attention Deficit Disorder (ADD), Acquired Brain Injury (ABI), Developmentally Delayed Learners (DDL), etc.

EDS 281. Assessing Achievement in Adults with Learning Disabilities. 3 Units
Term Typically Offered: Fall, Spring
EDS 282A. Assess Cognitive Skls Adult LD. 3 Units
Term Typically Offered: Fall, Spring
EDS 282B. Assess Cognitive Skls Adult LD II. 3 Units
Term Typically Offered: Fall, Spring
EDS 283. Legal Issues+Adult Learning Di. 1 Unit
Term Typically Offered: Fall, Spring

EDS 285. Strategies to Enhance Academic Skills for Adults with Learning Disabilities. 3 Units
Term Typically Offered: Fall, Spring, Summer
For adults with learning disabilities (LD), compensatory learning strategies are vital tools for success in the post secondary academic arena and beyond. Learn to utilize the most effective teaching and learning strategies and review material and method for teaching adults with disabilities in reading, writing, spelling and mathematics. Topics include: subtypes of learning disabilities; historical as well as current teaching approaches; formal and informal assessment methods; cognitive function as a basis of understanding learning behaviors and learning strategies; and current technologies available to enhance learning opportunities. Learn how to empower adults with LD with the ability to adapt commonly used learning strategies to meet individual needs.

EDS 290. Issues in Early Childhood Education for Children with Disabilities. 3 Units
Term Typically Offered: Fall, Spring
Overview of current theories, research, policies and practices regarding educational services for children, from birth to 8, with disabilities and their families. Topics emphasized include typical/atypical development, interdisciplinary assessment, family involvement, community resources, program planning, mainstreaming, and collaborative case management. Requires observations/field study in settings serving young children with disabilities.

EDS 291A. Technology in Special Education. 2 Units
Prerequisite(s): Admittance to Special Education Program or instructor permission.
Corequisite(s): EDS 291B.
Term Typically Offered: Fall, Spring
Offers an overview of technology usage in special education. Topics covered include: current research; identification of needs of exceptional children that can be met through use of microcomputers; evaluation and prescription of software, hardware and assistive devices; writing computer-assisted instructional programs to meet special needs; time management, and the general implementation of microcomputers into a special education program.

EDS 291B. Technology in Special Education Lab. 1 Unit
Prerequisite(s): Admittance to Special Education Program or instructor permission.
Corequisite(s): EDS 291A.
Term Typically Offered: Fall, Spring
Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 291A) in technology usage with students who receive special education services.
Credit/No Credit
EDS 332. Assessment Center Laboratory for Multiple Subject Candidates. 2 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education instructor.
Corequisite(s): EDSP 420B or approved equivalent by assigned advisor or department chair.
Term Typically Offered: Fall, Spring

Individual support to guide multiple subject candidates through the process of completing and submitting the culminating PACT Teaching Event and completion of their electronic portfolio. The signature assignments, formative PACT assessments and summative PACT Teaching Event represent a working electronic portfolio embedded throughout the credential program, and the summative component will be polished and formally submitted at the conclusion of the EDS 332.

EDS 412. Student Teaching: Moderate/Severe. 5 - 10 Units
Corequisite(s): EDSP 233. A total of 10 units is required.
Term Typically Offered: Fall, Spring

Students teaching in a cooperating LEA/District providing services for students receiving Moderate/Severe special education program services. Candidates must meet the criteria for student teaching to be accepted to this course.

Note: Approximately 320 hours are required to meet competencies.

EDS 439B. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year coursework and EDS 439A Graded: Credit / No Credit Units: 1.0 -10.0
Term Typically Offered: Fall, Spring

Advanced fieldwork experience providing the opportunity for students to engage in the following activities: individual and group counseling; consultation with teachers, parents, and other school staff, and assessment of students. Students will work under the supervision of a credentialed school psychologist. A faculty supervisor from the School Psychology Training Program will work with students and field supervisor.

Credit/No Credit

EDS 460. Practicum in Individual Counseling/VRC. 3 Units
Prerequisite(s): Approval as a candidate in the Vocational Rehabilitation program; approval of advisor, and department petition.
Term Typically Offered: Fall, Spring

Supervised practice in individual counseling.

Credit/No Credit

EDS 461. Field Study in Counseling/VRC. 3 - 15 Units
Prerequisite(s): Approval as a candidate in the Vocational Rehabilitation program, completion of core courses except EDS 560, EDS 561, or Comprehensive Examination (oral or written), approval of advisor, and department petition.
Term Typically Offered: Fall, Spring

Directed field study for rehabilitation counselors. Supervised experiences are arranged in rehabilitation counseling. Forty hours of experience required for each unit of credit.

Credit/No Credit

EDS 472E. Student Teaching: Serious Emotional Disturbance. 10 Units
Corequisite(s): EDS 277.
Term Typically Offered: Fall, Spring

Students will be placed in approved settings which serve students with serious emotional disturbance as a primary disability; be expected to demonstrate skills for instruction across content areas; interact with emotionally disturbed students using a combination of counseling and behavior management strategies; and consult with families, co-workers, mental health representatives and other in a collaborative style.

Credit/No Credit

EDS 530. Project In WDA I. 2 Units
Term Typically Offered: Fall, Spring

EDS 531. Project In WDA II. 4 Units
Term Typically Offered: Fall, Spring

Spanish (SPAN)

SPAN 1A. Elementary Spanish. 4 Units
Term Typically Offered: Fall, Spring

Beginning Spanish language with primary emphasis on the development of audio-lingual skills. Attention will also be given to the interrelatedness of language and civilization and culture. Additional attention will be given to the development of reading and writing. Students will be expected to spend several hours per week in the language laboratory. Not recommended for students with any previous study of Spanish.

SPAN 1B. Elementary Spanish. 4 Units
Prerequisite(s): SPAN 1A, or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring

Continuation of SPAN 1A with a greater emphasis on the development of speaking, reading, writing, and listening skills. Cultural knowledge continues to be an important component: elements of Hispanic character, customs, and the way in which the Spanish and Latin American peoples view themselves and others in the world is studied.

SPAN 1C. Intensive Elementary Spanish. 6 Units
Prerequisite(s): Two years of high school Spanish or equivalent.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

This course emphasizes a rapid development of the four language skills—speaking, reading, writing, and listening—covered in the first two semesters of university Spanish. Cultural knowledge is also an important component of this course, and elements of Hispanic character, customs, and the way in which the Spanish and Latin American peoples view themselves and others in the world will be studied. Recommended for students who have had some previous study of Spanish, but need a quick review of the structures covered in the first two years of high school Spanish or the equivalent.
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<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>General Education Area/Graduation Requirement</th>
<th>Term Typically Offered</th>
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<tr>
<td>SPAN 2A</td>
<td>Intermediate Spanish</td>
<td>4</td>
<td>SPAN 1A or two years of high school Spanish.</td>
<td>Foreign Language Graduation Requirement</td>
<td>Fall, Spring</td>
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<tr>
<td>SPAN 2B</td>
<td>Intermediate Spanish</td>
<td>4</td>
<td>SPAN 1A, suitable score on placement exam, or instructor permission.</td>
<td>Foreign Language Graduation Requirement</td>
<td>Fall, Spring</td>
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<tr>
<td>SPAN 5A</td>
<td>Introductory Spanish</td>
<td>4</td>
<td>SPAN 1A, suitable score on placement exam, or instructor permission.</td>
<td>Foreign Language Graduation Requirement</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>SPAN 5B</td>
<td>Intermediate Spanish</td>
<td>4</td>
<td>SPAN 1A, suitable score on placement exam, or instructor permission.</td>
<td>Foreign Language Graduation Requirement</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>SPAN 6A</td>
<td>Intermediate Spanish for Professionals I</td>
<td>4</td>
<td>Three years of High School Spanish or instructor permission.</td>
<td>Foreign Language Graduation Requirement</td>
<td>Fall only</td>
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<tr>
<td>SPAN 6B</td>
<td>Intermediate Spanish for Professionals II</td>
<td>4</td>
<td>SPAN 6A, suitable score on placement exam, or instructor permission.</td>
<td>Foreign Language Graduation Requirement</td>
<td>Spring only</td>
</tr>
<tr>
<td>SPAN 7</td>
<td>Spanish Reading Proficiency</td>
<td>3</td>
<td>SPAN 1A or two years of high school Spanish.</td>
<td>Foreign Language Graduation Requirement</td>
<td>Fall, Spring</td>
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<tr>
<td>SPAN 8A</td>
<td>Intermediate Spanish for Criminal Justice I</td>
<td>4</td>
<td>Three years of High School Spanish or instructor permission.</td>
<td>Foreign Language Graduation Requirement</td>
<td>Fall, Spring</td>
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<tr>
<td>SPAN 8B</td>
<td>Intermediate Spanish for Criminal Justice II</td>
<td>4</td>
<td>SPAN 8A, suitable score on placement exam, or instructor permission.</td>
<td>Foreign Language Graduation Requirement</td>
<td>Fall, Spring</td>
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<tr>
<td>SPAN 26</td>
<td>Conversational Spanish</td>
<td>3</td>
<td>SPAN 2B or equivalent, or instructor permission.</td>
<td>Foreign Language Graduation Requirement</td>
<td>Fall, Spring</td>
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<tr>
<td>SPAN 47</td>
<td>Introduction to Composition and Grammar Review</td>
<td>3</td>
<td>SPAN 2B or equivalent.</td>
<td>Foreign Language Graduation Requirement</td>
<td>Fall, Spring</td>
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<tr>
<td>SPAN 100</td>
<td>Introduction to the Study of Hispanic Literature</td>
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<tr>
<td>SPAN 102</td>
<td>Spanish Phonetics</td>
<td>3</td>
<td>SPAN 47 or equivalent.</td>
<td>Foreign Language Graduation Requirement</td>
<td>Fall, Spring</td>
</tr>
</tbody>
</table>
SPAN 103. Advanced Spanish Grammar. 3 Units
Prerequisite(s): SPAN 47 or equivalent or a "S" on the Spanish Language AP exam.
Term Typically Offered: Fall, Spring
Study of the specific components of Spanish grammar with particular emphasis on the Spanish verbal system, the subjunctive, and other problematic aspects of grammar. Will be of particular interest to those planning to teach Spanish as well as to the Spanish-speaking students.

SPAN 106. Advanced Spanish Composition. 3 Units
Prerequisite(s): SPAN 103 and completion of all lower division requirements.
Term Typically Offered: Fall, Spring
Increased practice in writing with emphasis on sentence and paragraph structure, and compositions to effectively convey meaning and ideas. Attention will be given to narrative, descriptive, expository prose, and dialogue, as well as to letters and other forms of written communication.

SPAN 110. Survey of Spanish Literature to 1800. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Fall only
Advanced readings, lectures, and discussions dealing with a panoramic view of Spanish literature from early works through the Golden Age and up to the 1800s.

SPAN 111. Survey of Spanish Literature from 1800 to the Present. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only
Continuation of SPAN 110; deals with literature from the Neoclassic period to the contemporary. Readings taken from works and genres of this period.

SPAN 113. Latin American Literature, Beginnings to Modernism. 4 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Fall only
Study of the major writers and trends in Latin American literature from beginnings until Modernism.

SPAN 114. Latin American Literature, Modernism to Present. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only
Study of the major writers and trends in Latin American literature from Modernism to the present.

SPAN 115. Magical Realism. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only
Magic and the wonderful infra-mythical world of major contemporary Latin America writers are explored in this in-depth study of Magical Realism. Short stories and novels are examined as they create a marvelous "other world" or reality. Authors studied include Gortazar, Carpenter, Bombal, Borges, Rulfo, Garcia Marquez, Fuentes, Sainz, Esquivel, and others.

SPAN 121. Spanish For Professionals. 3 Units
Prerequisite(s): SPAN 2A or equivalent.
Term Typically Offered: Fall, Spring
Designed to teach present and future professionals in criminal justice and related fields, including Social Work and Sociology, the necessary vocabulary and structures for effective communication in interviews, visits, etc. Some attention to local dialect differences.

SPAN 121J. Spanish Language For Criminal Justice Professionals. 3 Units
Prerequisite(s): SPAN 8A and 8B, or instructor permission.
Term Typically Offered: Fall, Spring
Designed to teach present and future professional in criminal justice and related fields, including Social Work and Sociology, the necessary vocabulary and structures for effective communication in interviews, visits, etc. Some attention to local dialect differences. Readings, visuals, and discussion of Latino/Hispanic culture and cross-cultural practices variation within Latin America and Spain as related to conducting interviews and writing reports in the criminal justice fields and other professions.

SPAN 123. Topics in Spanish Literature. 3 Units
Prerequisite(s): SPAN 100
Term Typically Offered: Fall only
Topics in literature from Spain offered as needed. Typical topics are: Spanish novel through the Golden Age; 19th and 20th century Spanish novel; Spanish drama from the Middle Ages to the Golden Age; Spanish Contemporary drama.
Note: May be repeated for credit provided topic is different.

SPAN 125. Introduction to Spanish-English Translation and Interpreting. 3 Units
Prerequisite(s): Spanish 47 or Instructor Consent
Term Typically Offered: Fall only
Teaches foundational technical and critical skills that bilingual Spanish-English speakers need to embark on the path to successful written translation and spoken interpreting in fields such as healthcare, law, education, business, and community service. Students engage theoretical readings, authentic case studies, and hands-on practice. By the end of the semester, students develop critical observation skills and build confidence to explore specialization in translation and/or interpreting.

SPAN 126. Spanish-English Medical Interpreting. 3 Units
Prerequisite(s): SPAN 6B or SPAN 125
Term Typically Offered: Spring only
The proposed course teaches technical and critical skills needed to address the growing demand for qualified Spanish-English medical interpreters. In addition to meeting community needs, the course increases career opportunities for bilingual speakers of Spanish and English by fulfilling the prerequisite for certification through the National Board of Certification for Medical Interpreters. The course adds an option for students pursuing the Spanish major, Spanish minor, and HEALS certificate (Form B expected Fall 2023) who wish to focus on interpreting.
Note: Teaches the technical and critical skills needed for successful Spanish-English interpreting in the field of medicine. Students engage theoretical readings, glossaries of medical terminology, authentic case studies, and hands-on practice. Includes preparation for certification exams.
SPAN 129. Spanish Civil War. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

In-depth examination of the Spanish Civil War (1936-1939) focusing on its social, political, and cultural contexts. The course also examines the war's historical origins, immediate aftermath and implications for understanding modern Spain.
Cross listed: HIST 136.

SPAN 130. Contemporary Mexican Literature. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Inquiry into the significance of the individual in contemporary Mexican culture and his greater relationship to the cosmos as seen through his literature. May be of particular interest to the Mexican American.

SPAN 131. Special Topics in Latin American Literature. 3 Units
Prerequisite(s): SPAN 100
Term Typically Offered: Spring only

Topics in literature from Latin America offered. Class will focus on marginalized literary genres, places, or peoples. Possible class topics include: Caribbean Literature, Female Writers from Latin America, Afro Latinx Voices, Indigenous Authors from Latin America, Latin American Playwrights, etc.
Note: May be repeated for credit provided topic is different.

SPAN 134. The Short Story in Latin America. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Development of the short story in Latin America with some introductory study of the North American short story by way of comparison. Selected readings from different countries where the short story has had an important development. Emphasis on the contemporary short story.

SPAN 142. Advanced Spanish Conversation. 3 Units
Prerequisite(s): SPAN 47.
Term Typically Offered: Fall, Spring

Increases language fluency and acquisition of new vocabulary through intensive conversational practice, based on topics of contemporary interest.

SPAN 151. Civilization and Culture of Hispanic America. 3 Units
Prerequisite(s): SPAN 47
Term Typically Offered: Fall, Spring

Readings, visuals, and discussion of the history, geography, anthropology, sociology, politics, economics, folklore, and artistic expression of the nations of Hispanic America.

SPAN 152. Civilization and Culture of Spain. 3 Units
Prerequisite(s): SPAN 47
Term Typically Offered: Fall, Spring

Reading and discussion of the history, geography, anthropology, sociology, political science, economics, folklore, music, art, and the dance as these areas relate to Modern Spain.

SPAN 153. Civilization and Culture of Mexico. 3 Units
Prerequisite(s): SPAN 47
Term Typically Offered: Fall, Spring

Reading and discussion of the history, geography, anthropology, sociology, political science, economics, folklore, music, art, and the dance of Mexico.

SPAN 159. Cultures of Latin America for the Professions. 3 Units
Prerequisite(s): SPAN 6A, 6B, and SPAN 121 or instructor approval.
Term Typically Offered: Spring only

Readings, visuals, and discussion of Latino/Hispanic culture and cross-cultural practices variation within Latin America as related to healthcare and other professions such as Criminal Justice, Social Work, Sociology, and Psychology.
Note: Students will need to pay a fee to cover for the cost of the Spanish Proficiency Exam, which will be used for Assessment Purposes.

SPAN 159J. Cultures of Spain and Latin America for the Professions in Criminal Justice. 3 Units
Prerequisite(s): SPAN 8A, 8B, and SPAN 121J or instructor approval.
Term Typically Offered: Fall, Spring

Readings, visuals, and discussion of Latino/Hispanic culture and cross-cultural practices variation within Latin America and Spain as related to Criminal Justice and other professions, including Social Work and Sociology.

SPAN 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in Spanish and instructor permission.
Term Typically Offered: Intermediate competency in Spanish and instructor permission.

Directed fieldwork in a project which uses the language skills developed through previous study of Spanish. The projects may include interpreting and translating for public and/or private agencies in Sacramento, teaching or tutoring in the community, or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. Can be taken more than once for credit.
Credit/No Credit

SPAN 195. Internship/Field Experience. 1 - 3 Units
Prerequisite(s): Intermediate competency in Spanish and instructor permission.
Term Typically Offered: Intermediate competency in Spanish and instructor permission.

Directed fieldwork in a project which uses the language skills developed through previous study of Spanish. The projects may include internship experiences with agencies in the community that serve the Spanish-speaking population in Sacramento. Field experience sites have to be approved and monitored by the faculty supervisor. The student must submit oral and written reports to supervisor. Can be taken more than once for a total of 3 units of credit.
Credit/No Credit
SPAN 199. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of instructor supervising work, the advisor, and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work, and enrollment will be limited to hardship cases.

Credit/No Credit

SPAN 201A. General Spanish Linguistics. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Depending upon the interest of the group, one topic of Spanish Linguistics will be chosen. The emphasis may be Comparative, Popular Spanish divergencies, or psycho- or socio-linguistics, especially the development of Mexican-American Spanish and the learning problems of bilinguals.

SPAN 201B. History of the Spanish Language. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Historical evolution of the Spanish language from Vulgar Latin to the present day with special emphasis on the phonetic and morphological changes involved in this evolution. Some attention will be devoted to Old Spanish readings as well as the differences between Old and Modern Spanish. Knowledge of Latin is helpful, but not required.

SPAN 201C. Contrastive Grammatical Structures of Spanish and English. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Analyzes the major differences between the grammatical system of Spanish and English, with particular emphasis on those areas of contrast which are vital to the teacher.

SPAN 201D. Applied Spanish Linguistics. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Application of linguistic theory, principally to the areas of language teaching and learning acquisition. Occasionally the application of linguistics to other fields may be examined.

SPAN 220A. Spanish Literature in the Middle Ages. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 220B. Spanish Literature in the Golden Age. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 220C. Spanish Literature in the 18th and 19th Centuries. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 220D. Contemporary Spanish Literature. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 224A. Spanish-American Literature to 1825. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Latin American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Beginnings of Spanish American Literature from the period of discovery and conquest through the colonial period until the end of the Wars of Independence in 1825. Covers the Renaissance, Baroque, and Neo- Classical Periods.

SPAN 224B. Spanish-American Literature, 1825 to 1880. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Latin American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Independence (1825) through 1880. Covers the following movements: Romanticism, Realism, and Naturalism and deals with selected authors.

SPAN 224C. Spanish-American Literature, 1880 to 1945. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Spanish American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 224D. Spanish-American Literature, 1945 to Present. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Spanish American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 250A. Civilization and Culture of Spain. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring

Seminar examining aspects of the national character and personality of Spain as revealed through Hispanic social and literary studies from prehistory to 1700.

SPAN 250B. Civilization and Culture of Modern Spain. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring

Seminar examining aspects of the character and personality of the various political, geographical, and cultural groups of Spain as revealed through the social and literary studies of Spain from 1700 to the present.
SPAN 250C. Civilization and Culture of Hispanic America. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring
Seminar examining aspects of the character and personality of the various nations of Hispanic America as revealed through Hispanic-American social and literary studies. Attention will be given to the various ethnic groups found in Hispanic America.

SPAN 250D. Civilization and Culture of Mexico. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring
Seminar examining aspects of the national character and personality of Mexico as revealed through Mexican social and literary studies.

SPAN 299. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of instructor supervising work, the advisor, and the Department chair.
Term Typically Offered: Fall, Spring
Individual projects or directed reading.
Note: Open only to students who have the required number of units in residence and who appear competent to carry on individual work. Enrollment will be limited to hardship cases. Only 3 units of upper division or 3 units of graduate division credit will be accepted for any one degree in Spanish.
Credit/No Credit

SPAN 500. Culminating Experience. 1 - 4 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring
Completion of a thesis, project or comprehensive examination.

Speech Pathology and Audiology (SPHP)

SPHP 227. Dysphagia and the Medical Setting. 3 Units
Prerequisite(s): CSAD 218, CSAD 221, instructor permission.
Term Typically Offered: Fall, Spring
Swallowing problems from infancy through old age; growth patterns and failures in younger populations; feeding and swallowing problems related to normal aging processes and those associated with neurogenic disorders. Assessment and treatment. Includes theoretical and experiential components. Overview of the role Speech-Language Pathologist in the hospital setting including learning how to read medical charts, basic insurance information, understanding other disciplines and how they affect the job and career of an SLP in the hospital, and medical terms/abbreviations.

SPHP 250. Speech/Language Internships Seminar. 2 Units
Corequisite(s): CSAD 295I, or CSAD 295M, or CSAD 295P or CSAD 295S.
Term Typically Offered: Fall, Spring
Assessment, scheduling and conducting language speech and hearing programs in schools. Related issues including scope of practice, managed care, interagency cooperation and transdisciplinary approaches.

Statistics (STAT)

STAT 1. Introduction to Statistics. 3 Units
Prerequisite(s): Math 10 or a score of 51 or higher on a proctored ALEKS PPL exam.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring
Descriptive statistics, basic concepts of probability and sampling with the aim of introducing fundamental notions and techniques of statistical inference.

STAT 10A. Introductory Statistics with Developmental Mathematics. 3 Units
Term Typically Offered: Fall, Spring, Summer
Prepares students for STAT 10B that requires background in data analysis process, descriptive statistics and the concept of randomness. Topics include: Summarizing the data distribution graphically and numerically; reasoning about bivariate numerical data; linear correlation and regression; linear, quadratic and exponential functions as a way of modeling a correspondence between two variables; reasoning about bivariate categorical data; basic concepts of probability and the law of large numbers; conditional probability; discrete random variables; binomial distribution; and an introduction to continuous random variables. Lecture three hours.

STAT 10B. Introductory Statistics with Developmental Mathematics. 3 Units
Prerequisite(s): STAT 10A
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Spring only
Continuation of STAT 10A. Stat 10B prepares students for research methods applications/ courses in various disciplines. Topics include: Continuous random variables and normal distribution; sampling distributions and the central limit theorem; confidence intervals and tests of hypotheses for means, proportions, difference in means and difference in proportions; and chi-squared tests for categorical data analysis. Lecture three hours.
STAT 50. Introduction to Probability and Statistics. 4 Units
Prerequisite(s): MATH 26A, MATH 30, or appropriate high school based AP credit.  
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)  
Term Typically Offered: Fall, Spring, Summer  
Sample spaces, combinatorics, and random variables. Density and distribution functions. Expectation, variance, and covariance. The binomial, uniform, poisson, negative binomial, hypergeometric, exponential, gamma, beta, and normal distributions. Sampling distributions, estimation, and hypothesis tests. Students are given periodic writing assignments which encourage them to think through concepts of the course.

STAT 96. Experimental Offerings in Statistics. 1 - 6 Units  
Term Typically Offered: Fall, Spring  
When there is a demand from a sufficient number of qualified students, one of the staff will conduct a seminar on some topic in statistics.

STAT 103. Intermediate Statistics. 3 Units  
Prerequisite(s): STAT 50 or instructor consent  
Term Typically Offered: Spring only – even years  

STAT 115A. Introduction to Probability Theory. 3 Units  
Prerequisite(s): MATH 31 and either STAT 1 or STAT 50  
Term Typically Offered: Fall only  
Probability axioms, discrete and continuous random variables, functions of random variables, joint densities, expectation, moment generating functions. Chebyshhev’s inequality, transformations, weak law of large numbers, central limit theorem.

STAT 115B. Introduction to Mathematical Statistics. 3 Units  
Prerequisite(s): STAT 115A  
Term Typically Offered: Spring only  
Point Estimation, interval estimation, hypothesis testing, the multivariate normal distribution, non-parametric tests.

STAT 128. Statistical Computing. 3 Units  
Prerequisite(s): (STAT 1 or STAT 50) and (MATH 26A or MATH 30) or consent of the instructor.  
Computer methods for accessing, transforming, summarizing, graphing and making statistical inferences from data; focus is on command-line statistical software, but menu-driven software may be introduced; application of computer methods to solve problems selected from the areas of modeling, simulation, inference and statistical learning.

STAT 129. Analyzing and Processing Big Data. 3 Units  
Prerequisite(s): (STAT 1 or STAT 50) and (MATH 26A or MATH 30) and (STAT 128 or CSC 20), or consent of the instructor.  
Term Typically Offered: Fall, Spring  
Statistical analysis of large, complex data sets. Topics include memory efficient data processing, the split-apply-combine strategy, rewriting programs for scalability, handling complex data formats, and applications such as statistical learning, dimension reduction, and efficient data representation. Students will access data and run code on remote servers.

STAT 155. Introduction to Techniques of Operations Research. 3 Units  
Prerequisite(s): MATH 31; STAT 50, STAT 103, or STAT 115A; MATH 31 may be taken concurrently.  
Term Typically Offered: Spring only – odd years  
Formulation and analysis of mathematical models with emphasis on real systems applications. Introduction to Queueing theory and Markov Processes for application.

STAT 196J. Statistical Computing. 3 Units  
Prerequisite(s): STAT 1 or STAT 50, and MATH 26A or MATH 30  
Term Typically Offered: Fall only  
Computer methods for accessing, transforming, summarizing, graphing, and making statistical inferences from data. Both a command-line statistical software package such as R and menu-driven package such as SAS will be used. Students will learn to apply computer methods to solve problems selected from the areas of modeling, simulation, inference and statistical learning. The intent of this course is to provide students with the software skills needed for statistical work in industry or academia.

STAT 196L. Linear Models. 3 Units  
Prerequisite(s): (Stat 1 or Stat 50) and (Math 35 or Math 100); an introductory programming course such as Math 64 or Stat 128 is recommended.  
Term Typically Offered: Fall, Spring  
Practical statistical modeling of data using professional-grade statistical software. Simple and multiple linear regression; analysis of variance; logistic regression; variable transformation; variable selection; model selection; residual analysis.

STAT 199. Special Problems. 1 - 6 Units  
Term Typically Offered: Fall, Spring  
Individual projects or directed reading. Open only to students who appear competent to carry on individual work. Admission to this course requires approval of the instructor in addition to the approval of the advisor and the Department Chair. Credit/No Credit

STAT 215A. Introduction to Mathematical Statistics. 3 Units  
Prerequisite(s): STAT 115A, STAT 115B; MATH 134 is recommended.  
Term Typically Offered: Fall, Spring  
Probability measure, conditional probability and independence, random variables, characteristic and moment-generating functions, modes of convergence.

STAT 215B. Topics in Introduction to Mathematical Statistics. 3 Units  
Prerequisite(s): STAT 215A.  
Term Typically Offered: Fall, Spring  
Note: May be taken twice with approval of Graduate Coordinator.

STAT 299. Special Problems. 1 - 6 Units  
Term Typically Offered: Fall, Spring  
Any properly qualified student who wishes to pursue a problem may do so if the proposed subject is acceptable to the department committee, the supervising instructor and the student’s advisor.
Teacher Education (EDTE)

EDTE 214. Classroom Assessment and School Accountability Issues. 3 Units
Term Typically Offered: Fall, Spring
Focuses on classroom assessment, grounded in sound principles of measurement and evaluation of learning. Assessment is considered in the context of historical, social, political, legal, educational, and ethical trends, and concerns including reviews of socio-cultural diversity and individual differences as they relate to accurate appraisal of what learners know how to do.

EDTE 219A. Intro To Information Services. 3 Units
Term Typically Offered: Fall, Spring

EDTE 219G. Networks For School Lib Med Ct. 2 Units
Term Typically Offered: Fall, Spring

EDTE 219K. Eval & Sel Learn Res & Info Se. 3 Units
Term Typically Offered: Fall, Spring

EDTE 219L. Lit For Children/Lib Media Svc. 3 Units
Term Typically Offered: Fall, Spring

EDTE 219M. Mgmt School Library Media Cent. 3 Units
Term Typically Offered: Fall, Spring

EDTE 219N. Org Of Info & Learning Resourc. 3 Units
Term Typically Offered: Fall, Spring

EDTE 219P. Lib Media Ctr+Core Curriculum. 2 Units
Term Typically Offered: Fall, Spring

EDTE 219Z. Field Study School Librariansh. 2 - 4 Units
Term Typically Offered: Fall, Spring
Credit/No Credit

EDTE 220. Seminar in Mathematics Education. 3 Units
Term Typically Offered: Fall, Spring
Research of mathematical instruction trends, problems of teaching math and successful mathematics programs.

EDTE 221. Curriculum Development in Mathematics Education. 3 Units
Term Typically Offered: Fall, Spring
Examining successful curricular materials and techniques for use with slow, average and rapid learners of mathematics, and programs directed at the non-college-bound population. Creating materials for exceptional as well as for average learners.

EDTE 222. Teaching Mathematics in the Twenty-First Century. 3 Units
Term Typically Offered: Fall, Spring
Investigation of issues and trends being faced by elementary and secondary teachers in California. An overall goal is to develop a significant body of examples of successful mathematics teaching, designed to be useful with learners from all of California’s diverse student population.

EDTE 222C. Theoretical Issues in Adult Literacies. 3 Units
Term Typically Offered: Fall, Spring
Introduces students to current theories surrounding the pedagogies and politics of adult literacies within a wide variety of contexts, including community colleges, prisons, and community projects. Incorporates information on technological literacies, information literacies, cultural literacies, and multiliteracies. In addition, students will be partnered with community literacy experts and required to complete formal observations of adult reading classrooms throughout the semester, fostering collaboration between the local community and the university. Cross-listed: ENGL 225C; only one may be counted for credit.

EDTE 226. Seminar: Strategies for Teachers. 3 Units
Term Typically Offered: Fall, Spring
Seminar focuses on analyzing various teaching strategies used in classrooms, K-12. Teaching strategies will be analyzed to identify teacher competencies and learning outcomes. Additional attention will be given to appropriate classroom management strategies.

EDTE 227. Seminar in Curriculum and Instruction, K-12. 3 Units
Term Typically Offered: Fall, Spring
Individual and group study of current programs, issues, trends and research in elementary and secondary instruction and curricular areas.

EDTE 228. Introduction to Ethnomathematics. 3 Units
Term Typically Offered: Fall, Spring
Students will learn aspects of mathematical modeling used to uncover mathematics as used in non-school contexts, a basic premise to ethnomathematics is that the mathematics found in other traditions is strongly influenced by, indeed reflects, a given individual’s cultural heritage and world view. Students examine alternative mathematical thought practices of other, mainly nonwestern cultures; consider how ethnomathematics is that the mathematics found in other traditions

EDTE 230. Introduction to Computers in the Classroom. 3 Units
Term Typically Offered: Fall, Spring
Practical introduction to the use and applications of computer-based technologies in the Kindergarten-twelfth grade classroom. Major topics include basic computer terminology and functions, educational software evaluation and integration into instruction, using telecommunication, multimedia authoring and issues relating to the impact of computers in a democratic society. No prior experience with computers required.

EDTE 232. Educational Applications of Computers. 3 Units
Prerequisite(s): EDMS 330 or EDS 291A and EDS 291B; or equivalent.
Term Typically Offered: Fall, Spring
Examines how application programs such as word processing, database management, spreadsheets and presentation tools can be used as part of the teaching, management and learning processes. Also includes instruction on the setup and management of telecommunications and classroom networks.
EDTE 233. Teaching Problem-Solving with Educational Technology. 3 Units

Prerequisite(s): EDTE 232 or equivalent.
Term Typically Offered: Fall, Spring

Examines the theoretical presuppositions underlying the use of educational technology to teach problem-solving, conditions under which problem-solving opportunities are likely to arise, computer programming as a problem-solving medium and the potential of software programs designed to teach problem-solving skills. Includes Internet-based problem-solving and principles of distributed learning.

EDTE 234. Curriculum and Staff Development with Educational Technology. 3 Units

Prerequisite(s): EDTE 232 or equivalent.
Term Typically Offered: Fall, Spring

Provides the student with an in-depth understanding of the principles and processes of analyzing curriculum for the purpose of integrating educational technology at the classroom, school and district levels. Students will analyze curricula, identify appropriate technology applications, and create plans for establishing, monitoring, and evaluating technology-based programs. Special emphasis will be placed on professional development.

EDTE 235. Enhancing Curriculum with Multimedia and the Web. 3 Units

Prerequisite(s): EDTE 232 or equivalent.
Term Typically Offered: Fall, Spring

Provides the student with an in-depth understanding of the principles of multimedia and web-based design. Students will apply these principles to developing curriculum for the technology-infused classroom. Intensive hands-on experience in the development of web and multimedia including video based on principles of human information processing and aesthetics.

EDTE 237. The Professional Lives of Teachers. 4 Units

Prerequisite(s): EDTE 226 and EDTE 251.
Term Typically Offered: Fall, Spring

Building upon the historical role of the position in society, the cultural influences that affect public and personal perception of teachers, the theoretical models of teaching, and research on teacher identity, participants will explore the continuum of a teacher’s professional life (preservice, induction, professional growth, mentorship), teacher professionalism, and what teachers’ professional lives look like in practice. Students will define their career stage and create a vision for the rest of their career in the field.

EDTE 238. Professional Development of Teachers in Democratic Schools. 4 Units

Prerequisite(s): EDTE 237.
Corequisite(s): EDTE 239.
Term Typically Offered: Fall, Spring

Examines contemporary issues in professional development for teachers. Students learn specific foundations and procedures for professional development that have well-documented effects on student achievement, e.g., professional learning communities. Students also analyze and design appropriate strategies for implementing and evaluating professional development for the contexts in which they are teaching as well as for a variety of other settings.

EDTE 239. Schools and Schooling in a World of Policy and Practices. 4 Units

Term Typically Offered: Fall, Spring

Beginning with a historical framework of reform, examines theories and models of school reform in the U.S. and international contexts. Students engage in researching and identifying how political and social forces impact the development of educational policy and reform initiatives. Using the lens of contemporary reform, students analyze recent school reform initiatives as well as the ideas and ideals of professional development within their own educational contexts.

EDTE 242. Key Issues in National Board Certification. 3 Units

Prerequisite(s): Admission to the Master of Arts In Education (Curriculum and Instruction) and the selection to the National Board Cohort.
Term Typically Offered: Fall, Spring

Through action research, professional reading and guided discussions, students will explore key elements of the National Board Standards including engaging student learning, assessment, decision making in lesson design, and identifying essential "big ideas" in content areas.

EDTE 250. Educational Research. 3 Units
Term Typically Offered: Fall, Spring, Summer

Studies qualitative and quantitative research methods in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies.

EDTE 250I. Educational Research for IMET. 3 Units

Prerequisite(s): Acceptance into Master of Arts (Educational Technology).
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative research methods in the field of education with special emphasis on educational technology. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies.

EDTE 251. Education for a Democratic, Pluralistic Society. 3 Units
Term Typically Offered: Fall, Spring

Advanced study of social and psychological issues which need to be considered in education relating to the client, the educator, the community and society. Addresses implications of theories of learning, assessment, individual differences, cultural, historical, philosophical, and social/political influences. Includes an overview of research and an introduction to APA formatting. Must be taken first semester in EDTE uncohorted Masters' program.
**EDTE 251. Education in Democratic, Pluralistic Society for Educational Technology.** 3 Units

**Prerequisite(s):** Acceptance into MA in Education (Educational Technology) program.

**Term Typically Offered:** Fall, Spring

Advanced study of social and psychological issues which need to be considered in education relating to the client, the educator, the community, and society, with a focus on the effects of educational technology advancements and influences. Addresses implications of theories of learning, assessment, individual differences, cultural, historical, philosophical, and social/political influences.

**Note:** Fee course.

Fee course.

**EDTE 258. Intersectionality and Media Literacy.** 3 Units

**Term Typically Offered:** Fall, Spring, Summer

The course will explore relationships between popular Western media and the social constructions of race and gender. The course will examine interpretations of media portrayals, provide a critical analyses of media culture and media content, and consider what can be done to combat oppressive media narratives.

**EDTE 262. Experiencing the Arts in Education.** 3 Units

**Prerequisite(s):** Admission into the Masters of Arts in Education (Curriculum and Instruction) or instructor permission.

**Term Typically Offered:** Fall, Spring

Involves experiencing, appreciating and generating the arts. Develops a creative, collaborative community for learning and teaching through the arts which will be sustained throughout the Master of Arts in Education (Curriculum and Instruction) and beyond.

**EDTE 263. Gender Leadership and Integrative Thinking.** 3 Units

**Term Typically Offered:** Fall, Spring, Summer

This course explores methods of integrative thinking, holistic leadership practices, cultural perspectives, and mindful communication techniques for current and future leaders. This course defines leadership styles, explores gender dynamics in leadership and gives students the opportunity to apply integrative thinking models across multiple disciplines.

**EDTE 266. Gender Constructs in Education.** 3 Units

**Term Typically Offered:** Fall, Spring

Examination and analysis of methods, practices, and social construct prevalent in educational institutions and society and their ultimate effect on females and males, both as individuals and as a members of society. Students will examine the limiting factors in their own gender-role socialization and the dangers of perpetuating them in their own teaching or managerial practices.

**EDTE 267. The Human Brain and Its Function for Effective Teaching and Learning.** 3 Units

**Prerequisite(s):** Graduate status.

**Term Typically Offered:** Fall, Spring

Brain-based teaching and learning practices are related directly to the functions of the limbic system; the frontal, parietal, temporal and occipital lobes; and the reticular activating system, brainstem and vestibular apparatus. Students will understand why, from a brain perspective, certain learning/teaching practices are successful/unsuccessful.

**EDTE 268. Theory and Practice of Gender Issues and Race.** 3 Units

**Term Typically Offered:** Fall, Spring

This course is designed to enhance the understanding of theoretical frameworks on gender/race dynamics in education and society. Educational philosophy and history are examined in order to develop theoretical constructs for examining contemporary challenges. Using a theoretical lens, historical and modern day experiences of people of color will be of particular interest. This course will contribute to the graduate level coursework in the areas of education, gender equity, multiculturalism, and interdisciplinary studies.

**EDTE 270. Advanced Teaching Skills through Teacher Induction for Beginning Teachers - Year 1.** 3 - 6 Units

**Term Typically Offered:** Fall, Spring

The Teacher Induction program provides support to credentialed teachers in their first and second year of teaching. Each beginning teacher participates in professional development and formative assessment in seminars and weekly meetings with a trained support provider. Year 1 focuses on the California Standards for the Teaching Profession, creating an effective classroom environment, planning standards-based instruction for all learners, using technology to access information, and providing effective support for English learners and special populations. Instructor Approval Required For Enrollment. Credit/No Credit

**EDTE 271. Advanced Teaching Skills through Teacher Induction for Beginning Teachers - Year 2.** 3 - 6 Units

**Term Typically Offered:** Fall, Spring

Teacher Induction Year Two emphasizes the California student content standards and frameworks. Seminars and individualized assessment and support extend the abilities of second year teachers to collect evidence of their teaching practice, use state and local student assessment data to make informed instructional choices, differentiate instruction to support student achievement of the California student content standards, use research-based strategies to improve the achievement of English learners and students with disabilities, and use technology to maximize instructional effectiveness. Instructor Approval Required for Enrollment. Credit/No Credit

**EDTE 272. Mentoring Skills for Teacher Induction (Year 1).** 3 - 6 Units

**Term Typically Offered:** Fall, Spring

Professional development of Mentors (year 1) including research-based practices to provide coaching support for new teachers and to develop teachers’ professional practice; professional development related to effective mentoring practice related to the California Standards for the Teaching Profession, provide formative assessment using observations, reflection and self-assessment, as well as assist in the creation of an electronic portfolio documenting the teacher’s individual professional growth journey. The program is grounded in the California Standards for the Teaching Profession (CSTPs). Credit/No Credit
EDTE 273. Mentoring Skills for Teacher Induction (Year 2). 1 - 6 Units  
Term Typically Offered: Fall, Spring  
Continuation of EDTE 272 which includes research-based practices to provide coaching support for new teachers and to develop teachers' professional practice. Students will engage in professional development in effective mentoring practice related to the CA Standards for the Teaching Profession, provide formative assessment using observations, reflection and self-assessment, as well as assist in the creation of an electronic portfolio documenting the teacher's individual professional growth journey.  
Note: For Teacher Mentors in Year 2  
Fee course.

EDTE 280A. Fundamentals of Online Pedagogy & Instructional Design. 3 Units  
Prerequisite(s): Acceptance into MA in Education (Educational Technology) program.  
Term Typically Offered: Fall, Spring  
Introduces students to a variety of online instructional strategies, skills, and instructional design and their theories and practices. Will include an introduction to distributed education, including synchronous and asynchronous modes of instruction, and their applications to instruction.  
Note: Fee course.

EDTE 280B. Instructional Design. 3 Units  
Prerequisite(s): Acceptance into MA in Education (Educational Technology) program.  
This course provides students with experiences to develop the knowledge, skills, and dispositions essential in the design of instruction that involves uses of technology for learning. Students will explore and apply instructional design processes and theories for analysis, planning, and evaluation of learning activities. Students will work together to develop learning activities that utilize multimedia technologies. Learning activities that students work to develop may include webinars, parts of a course or workshop, online learning, or others with the instructor's approval.  
Note: Fee course.

EDTE 281. Tools and the Curriculum. 3 Units  
Prerequisite(s): Acceptance into MA in Education (Educational Technology) program.  
Term Typically Offered: Fall, Spring  
Seamlessly blends basic technological applications with established areas of the curriculum. Students will create and use an array of educational technology applications, including multimedia and interactive tools, as integrated facets of well-established teaching and design strategies. Learning and applying strategies to new and unique problem-solving including online learning and instructional situations is expected. In the process, students evaluate and synthesize theories of learning best suited to designing and developing instruction.  
Note: Fee course.

EDTE 282. Strategies for Application and Presentation. 3 Units  
Prerequisite(s): Acceptance into Master of Arts (Educational Technology).  
Term Typically Offered: Fall, Spring  
Develops techniques for presenting and teaching thinking skills and problem solving in schools. Students research social and cultural problems as well as local and curricular problems and apply teaching strategies that develop higher-order thinking processes. Inquiry and problem-based strategies are used and integrated with technological applications. Students design web-based units that focus on logic as well as creative thinking that lead toward a solution to curricular or social and cultural problems.

EDTE 283. Staff Development and Presentation Applications. 3 Units  
Prerequisite(s): Acceptance into MA in Education (Educational Technology) program.  
Term Typically Offered: Fall, Spring  
Focuses on the need for staff development and on effective instructional practices. Explores the necessary elements that facilitate integrated technology to staff members. Students practice a variety of delivery methods for staff development that include multimedia, online resources, and hands-on integrated curricular activities that teachers or instructional leaders or designers can use within the organizational culture.  
Note: Fee course.

EDTE 284. Problem Solving and Project Development. 3 Units  
Prerequisite(s): Acceptance into Master of Arts (Educational Technology).  
Term Typically Offered: Fall, Spring  
Students will focus on integrating curriculum, equity, and/or staff development strands into an overall educational technology implementation strategy. Complex problem-solving techniques, research, distributed learning, methodology, and evaluation will be emphasized.

EDTE 285. Technology and Modern Practices. 3 Units  
Prerequisite(s): Acceptance into MA in Education (Educational Technology) program.  
Term Typically Offered: Fall, Spring  
Students will learn to understand, construct, and manage communications-based technologies in educational settings. Focuses on modern communications technology, terminology, educational practices, and instructional technology strategies. Emphasis will be placed on mentoring, management, and leadership.

EDTE 286. Special Topics in Educational Technology. 3 Units  
Prerequisite(s): Acceptance into MA in Education (Educational Technology) program.  
Term Typically Offered: Fall, Spring  
Development and innovations in modern technology, especially as related to instructional design, teaching and learning. Composition will vary from semester to semester and over time. However, it will consistently utilize cutting-edge technology to support teaching, learning, and instructional design.  
Note: Fee course.

Fee course.
EDTE 290. Seminar: Preparation of Master’s Thesis/Project. 3 Units
Prerequisite(s): Approval of Master’s Thesis Proposal or instructor permission
Term Typically Offered: Fall, Spring
Seminar course will focus on topics/elements/expectations to be included in the culminating experience: abstract writing, development of organizational schemes for the review of literature; format requirements; thesis/project planning; range and breadth of evidence for a comprehensive review; integrating the review with thesis/project; writing style and quality; revisions and critical feedback. Successful completion of the course requires the completion of Chapters 1 and 2 of the thesis/project and the beginning of Chapter 3. Graded: Credit/No Credit

EDTE 296O. Introduction to Response To Intervention/Instruction (RT12). 3 Units
Prerequisite(s): Must hold a minimum of a Bachelors Degree.
Term Typically Offered: Fall, Spring
This is the first course of three with the purpose of providing participants with an introduction to Response to Intervention/Instruction (RT12). Participants will gain knowledge of the state laws behind RT12, current implementation models, critical components and best practices in implementing a RT12 system. This course will lay a solid foundation of knowledge for the proceeding two courses of the RT12 certificate program.

EDTE 296P. Response To Intervention/Instruction (RT12): Assessment and Intervention. 4 Units
Prerequisite(s): Student must hold a minimum of a Bachelors Degree.
Term Typically Offered: Fall, Spring
Response to Instruction/Intervention (RT12) is a proactive approach to student learning that uses data to determine student need, monitor student progress, and make decisions about instructional changes to maximize student achievement and to address behavioral concerns. This course will examine the various methods of data collection, data analysis and research-based interventions found in an RT12 framework. Participants will be involved in real world Case Studies to apply RT12 practices at individual, school, and district levels.

EDTE 296Q. Response to Intervention: Practical Application. 3 Units
Prerequisite(s): Student must hold a minimum of a Bachelors degree and have completed EDTE 296O and EDTE 296P with a minimum C- grade or better to enroll in this course.
Term Typically Offered: Fall, Spring
This course is the culmination of courses EDTE 296O and EDTE 296P. It is a practicum course that will help students transfer new learning’s from the previous two courses into a RTI plan of action for the classroom, site, or district. This course will help students further explore and research systems and practices in place at their site or district to help develop a RTI plan.

EDTE 298. Capstone. 3 Units
Prerequisite(s): Acceptance into MA in Education (Educational Technology) program and Advancement to Candidacy.
In the final course in the Educational Technology Master’s program, students review, reflect, and discuss personal and professional evolution of program experiences, and create and present a final showcase. Students will select assignments from their courses to create a media-rich final ePortfolio that will be evaluated by both peers and faculty. Additionally students will discuss and present selected elements of their Master’s project developments with their cohorted peers, and identify methods to apply in disseminating results related to their Culminating Experience.
Note: Fee course.

EDTE 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring
Individual projects at graduate level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and the Department Chair.

EDTE 329D. Helping Writing Happen. 3 Units
Term Typically Offered: Fall, Spring
Problems of teaching foreign language; evaluation of methods in the light of objectives; discussion of techniques and source materials. Should be taken prior to or with student teaching. Discussion, participation in such classroom activities as panel discussions, presentations and demonstrations.
Cross listed: FORL 385

EDTE 385. Foreign Languages in the Secondary School. 3 Units
Term Typically Offered: Fall, Spring
The course will focus on topics/elements/expectations to be included in the culminating experience: abstract writing, development of organizational schemes for the review of literature; format requirements; thesis/project planning; range and breadth of evidence for a comprehensive review; integrating the review with thesis/project; writing style and quality; revisions and critical feedback. Successful completion of the course requires the completion of Chapters 1 and 2 of the thesis/project and the beginning of Chapter 3. Graded: Credit/No Credit
Theatre (THEA)

THEA 1. Introduction To Theatre. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Primarily for non-majors interested in acquiring a background of information in theatre. Plays, history, acting theories, technical methods and people in the theatre. Lectures, demonstrations and discussions will characterize the greater portion of the course.

THEA 2. History of the Theatre: Ancient to Renaissance. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Broad survey of the nature and development of theatrical performance from ancient times through the Renaissance which emphasizes the relationship between theatre and the larger philosophical social and political concerns of its time.

THEA 3. Theatre History After 1660. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Investigates the relationship between the development of theatre styles, structures and institutions, and philosophical, political, and cultural practices after 1660. Considers plays, production styles, theatre as an institution, and issues of representation of gender, race and class.

THEA 5. Aesthetics of Theatre and Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Interpretations of seminal dramatic scripts emphasizing the aesthetics of the theatrical art in relation to the cinematic medium.

THEA 9. Appreciation Of Acting. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examination of the art of acting, including a review of actors and acting - past and present. Basic exercises in voice and diction, movement, and character will be utilized.

THEA 11. Acting Study I. 3 Units
Prerequisite(s): Theatre and Dance Majors or Minors or instructor permission.
Term Typically Offered: Fall, Spring

An introduction to, and a solid working foundation of, the basic building blocks of the acting craft. Through ensemble building, personal reflection, physical commitment, and vocal awareness exercises, students have the opportunity to improve and grow as an actor in both individual and partnered performance. Key learning goals include the ability to understand, interpret and execute the foundational elements of drama (plot, character, thought, and language).

THEA 14. Stage Makeup and Costume Construction. 3 Units
Term Typically Offered: Fall, Spring

This course provides a comprehensive look at the technical side of stage makeup and stage costumes, with an emphasis on makeup application and costume construction. Students learn use of materials, equipment, theatre terminology, and the practical aspects of costume and stage makeup realization. Students work on costume and makeup projects from start to finish in the makeup lab and costume shop.
Note: Enrollment restricted to Theatre Majors/Minors, Dance Majors/Minors; non-majors enrolled with Department approval only; Instructor permission required to enroll concurrently with THEA 16 or 20.

THEA 16. Stagecraft. 3 Units
Term Typically Offered: Fall, Spring

Principles of scenic and stage prop construction, techniques of mounting and shifting stage scenery, and the study of ground plans and construction drawings for theatrical production. Lecture/lab activity.
Note: May not be taken concurrently with THEA 14 or THEA 20 without instructor permission.

THEA 20. Lighting. 3 Units
Term Typically Offered: Fall, Spring

Principles of stage lighting, fixtures, control and color. Introduction to basic concepts and practices of lighting design. Lecture/lab activity.
Note: May not be taken concurrently with THEA 14 or THEA 16 without instructor permission.

THEA 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

THEA 96A. Stage and Production Management. 3 Units
Term Typically Offered: Spring only

Explores the relationship between stage and production management, including the preparation of prompt scripts, pre- and post-production planning and organization, as well as the management of actors, technical rehearsals, and performances. This course focuses on historical and global perspectives, communication tools, and strategies used in the creation and organization of a theatrical production. May count as an elective for the major with advisor approval.

THEA 100. Script Analysis. 3 Units
Prerequisite(s): THEA 2, THEA 3
Corequisite(s): THEA 3
Term Typically Offered: Spring only

Through lecture and discussion, students explore the foundational elements of play scripts. The class investigates the structure of a play as well as its use of character, thought, plot, diction, song, and spectacle to analyze how a play’s social and cultural elements inform potential productions.
THEA 102A. Voice and Movement I. 3 Units
Prerequisite(s): THEA 11.  
Term Typically Offered: Fall, Spring

Introduction to the basic fundamentals of voice production and movement for the actor. Basic anatomy and physiology, relaxation, alignment, and breath work and its connection to movement. Feldenkrais, the Alexander Technique, and physical strengthening exercises are used in combination with vocal exercises to develop the actor’s voice and body. Vocal and physical improvisation are introduced through various voice and movement exercises.

THEA 102B. Voice and Movement II. 3 Units
Prerequisite(s): THEA 11, THEA 102A or instructor permission.  
Term Typically Offered: Fall, Spring

Strengthening and enhancing the vocal work developed in Voice and Movement I is continued with an in depth study of the International Phonetic Alphabet and its importance when performing heightened language plays. Solo presentation and a devised final ensemble project round out the course requirements.

THEA 104. Acting Study II. 3 Units
Prerequisite(s): THEA 11, THEA 102A or instructor permission.  
Term Typically Offered: Fall, Spring

To further develop the basic concepts of acting through scene work from the American modern repertoire. Particular emphasis is placed on the importance of a play’s given circumstances, and the commitment required to make bold, active tacit choices when developing a character. Further investigation of the actor’s process in analyzing text and incorporating research through character analysis, as it ties into performance, are explored.

THEA 106. Latin American Film. 3 Units
Term Typically Offered: Fall, Spring

Exploration of the major movements in Latin American cinema beginning with the initial impetus of the Argentine and Mexican film industry of the late 1940’s and the relationship of their aesthetic formulas to the cultural and socio/political climate of major Latin American nations.

THEA 107. Directing. 3 Units
Prerequisite(s): THEA 2, THEA 3, THEA 11, THEA 14, THEA 16, THEA 20, THEA 100  
Term Typically Offered: Fall only

Practical experience in production procedures, characterization and basic principles of play direction. Analyzes directing techniques. Class typically attends a rehearsal and performance at Capital Stage (professional theatre in Midtown).

Note: Field trip.

Field trip(s) may be required.

THEA 109. Musical Theatre. 3 Units
Prerequisite(s): THEA 11  
Term Typically Offered: Spring only

Practical study in singer-actor performance techniques. Major consideration is given to coordination of gesture and/or choreography, dialogue, melody, and lyric.

THEA 110. Acting Study III: Advanced Acting. 3 Units
Prerequisite(s): THEA 11, THEA 102A and/or THEA 102B, THEA 104 or instructor permission.  
Term Typically Offered: Fall, Spring

The study of ways to research, rehearse and perform advanced acting styles and techniques with an emphasis on text analysis, given circumstances, subtext, and heightened language.

Note: May be taken twice for credit.

THEA 111. Audition Technique. 3 Units
Prerequisite(s): THEA 11, THEA 102A &/OR THEA 102B, THEA 104; Musical Theatre minors must also take THEA 109.  
Term Typically Offered: Spring only

An in-depth study of the business of becoming a working professional actor and the techniques needed when auditioning for a professional theatre company. Students prepare an audition repertoire that is appropriate to their age and type; audition for a panel of theatre professionals and receive feedback for both areas of skill and those needing improvement. Resumes, headshots, trade papers, skill sets, and financial budgeting are examples of the areas included within the content of this course. An introduction to television/commercial and musical theatre audition techniques is also incorporated.

THEA 113. Acting Styles: Shakespeare. 3 Units
Prerequisite(s): THEA 11, THEA 102A &/or THEA 102B, THEA 104;  
Term Typically Offered: Fall, Spring

Designed to familiarize the intermediate acting student with the very specific demands of performing the works of William Shakespeare. Beginning with an in-depth study of the structure and meter of verse poetry, THEA 113 provides the vocal, physical, and analytical tools with which to approach this material in an intelligent and confident manner. Scene and monologue work is detailed and extensive.

THEA 115. Puppetry. 3 Units
Term Typically Offered: Fall, Spring

Play production with puppets. Practical work in constructing and manipulating various kinds of puppets. Simple puppets for use at elementary level; hand puppet production. Lecture/lab activity.

THEA 115A. Multicultural Puppetry. 3 Units  
General Education Area/Graduation Requirement: Arts (Area C1), Race & Ethnicity Graduation Requirement (RE)  
Term Typically Offered: Fall, Spring

Multicultural puppetry was developed to introduce the student to the techniques and construction of puppetry and its use in a multicultural setting. Puppetry has been found to be an excellent tool for the teaching of multiculturalism to children. Emphasizes the methodology in the development of multicultural/multilingual scripts and their use in the implementation of curriculum. The ability to speak a second language is not a prerequisite.

THEA 118. Children’s Theatre. 3 Units  
Term Typically Offered: Fall, Spring

Study of special problems and techniques in the production of formal and improvisational drama for children; a consideration of techniques, methods and materials for use in the classroom to support and supplement curricular goals.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>THEA 120A</td>
<td>Practicum in Technical Production</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
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<td></td>
<td>Practical experience in handling technical stagecraft problems, stage management, crew management. Activity and participation in major productions. Four hours per week minimum required in workshop. Note: THEA 120A requires students to work on one departmental production a semester for a minimum of 4 hours/week; may be repeated for credit.</td>
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<td>THEA 120B</td>
<td>Practicum in Technical Production</td>
<td>2 Units</td>
<td>Fall, Spring</td>
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<td>Practical experience in handling technical stagecraft problems, stage management, crew management. Activity and participation in major productions. Eight hours minimum a week required workshop. Note: THEA 120B requires students to work on two departmental productions a semester for a minimum of 8 hours/week; may be repeated for credit.</td>
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<tr>
<td>THEA 120C</td>
<td>Practicum in Technical Production</td>
<td>3 Units</td>
<td>Fall, Spring</td>
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<td>Practical experience in handling technical stagecraft problems, stage management, crew management. Activity and participation in major productions. Twelve hours minimum a week required workshop. Note: THEA 120C requires students to work on three departmental productions a semester for 12 hours/week; may be repeated for credit.</td>
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<td>THEA 121</td>
<td>Rehearsal and Performance</td>
<td>1 Unit</td>
<td>Fall, Spring</td>
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<td>Participation in the preparation, rehearsal and performance of a departmental production. Approximately 50 hours of participation (including rehearsal and performance time) for one unit of credit. Admission by audition. A total of six undergraduate units may be taken.</td>
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<td>THEA 123</td>
<td>Lighting and Set Design</td>
<td>3 Units</td>
<td>Fall, Spring</td>
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<td>Prerequisite(s): THEA 16 and THEA 20 or instructor permission.</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Advancement in the methods of developing concepts for and of productions involving analysis of the script, research and spatial awareness in relation to scenic and lighting design.</td>
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<td>THEA 131</td>
<td>Costume Design</td>
<td>3 Units</td>
<td>Spring only</td>
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<td>Term Typically Offered: Spring only</td>
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<td>Study of costume history, design elements, play and character analysis, rendering and presentation techniques, and production procedures. Practical experience in the basics of costume construction with a focus on character interpretation and collaboration with other theatre artists.</td>
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<td>THEA 140</td>
<td>Black Drama in the African Diaspora</td>
<td>3 Units</td>
<td>Fall, Spring</td>
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<td>General Education Area/Graduation Requirement: Arts (Area C1)</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Survey of the contributions of theatre artists in the African Diaspora. The reading list includes dramas from Africa, the Caribbean and United States and focuses on how social, cultural, and political climates influence Black Drama.</td>
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<td>THEA 144</td>
<td>Women and Theatre: Staging Diversity</td>
<td>3 Units</td>
<td>Fall, Spring</td>
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<td>General Education Area/Graduation Requirement: Race &amp; Ethnicity Graduation Requirement (RE), Arts (Area C1)</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Survey and performance course that focuses on identity theories and the contributions of contemporary female theatre artists. Lecture two hours; lab two hours. Crosslisted: WOMS 144; only one may be counted for credit.</td>
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<td>THEA 155</td>
<td>Contemporary World Cinema</td>
<td>3 Units</td>
<td>Fall, Spring</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>A historical review of the development of major international film styles and themes. Theoretical and critical concepts derived from this study of international film and then used as the basis to analyze contemporary films of South America, Europe, India, East Asia, Africa and the Middle East. Emphasis is on both the development of formal film techniques and a comparison of the unique cultural values that shape the film narrative style. Crosslisted: FILM 155</td>
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<td>THEA 157</td>
<td>African American Theatre and Culture</td>
<td>3 Units</td>
<td>Fall, Spring</td>
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<td>Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X, or WPJ score 70 or 71 and co-enrollment in ENGL 109X.</td>
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<td>General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Survey of African American theatre and drama as a reflection of African American history and culture from slavery to today. This is a writing-intensive course.</td>
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<td>THEA 173</td>
<td>Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present</td>
<td>3 Units</td>
<td>Fall, Spring</td>
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<td>General Education Area/Graduation Requirement: Arts (Area C1)</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Study of contemporary Chicano/Latino, Chicana/Latina theatre and drama from 1965 to the present, and its approaches toward performance. The course focuses on new trends, influences and new developments in playwriting, directing, performance styles, and its impact on the movie industry.</td>
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<td>THEA 177</td>
<td>Multicultural Perspectives in American Theatre</td>
<td>3 Units</td>
<td>Fall, Spring</td>
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<td>General Education Area/Graduation Requirement: Arts (Area C1), Race &amp; Ethnicity Graduation Requirement (RE)</td>
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<td>Term Typically Offered: Fall, Spring</td>
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<td>Study of the historical and artistic contributions of Native Americans, Chicano/Latinos, African-Americans and Asian-Americans to American Theatre. Focuses on a range of plays from various ethnic and racial groups, forming a multicultural classroom experience; specifically study groups, from 1965 to the present, and examine the cultural, sociological and political climates in which these plays were created.</td>
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THEA 175. Multicultural Perspectives in American Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring
Study of the historical and artistic contributions of Native American, Chicano/Latino, African-Americans and Asian American to the American cinema. The course will concentrate on a range of films with an emphasis on multicultural theoretical and critical writings and will examine the cultural and socio-political climate in which these films were crafted.

THEA 190. Senior Production. 2 Units
Prerequisite(s): THEA 2, THEA 3, THEA 11, THEA 14, THEA 16, THEA 20, THEA 100, THEA 120A, THEA 104, THEA 107, THEA 120 (3 units), THEA 121 and THEA 123 or THEA 131.
Corequisite(s): THEA 120 (3 units) may be taken concurrently if needed
Term Typically Offered: Spring only
This capstone course provides practical experience in theatrical production by focusing on the foundational elements of play production and the collaborative page-to-page production process.

THEA 194. Theatre-Related Work Experience. 3 - 12 Units
Prerequisite(s): Consent of Department chair.
Term Typically Offered: Fall, Spring
Supervised employment in a company or producing agency working on theatre-related work, arranged through the Theatre and Dance Department and the Cooperative Education Program office. Requires preparation of application packet, completion of a 3-6 month full-time or part-time work assignment, and a written report. No more than 3 units will be counted towards the degree.
Note: Open only to upper division or graduate students with appropriate course preparation.
Credit/No Credit

THEA 195. Fieldwork. 2 - 3 Units
Prerequisite(s): Junior or Senior standing and permission of the instructor of record.
Term Typically Offered: Fall, Spring
Internship with local theatre company or arts organization that provides direct, supervised experience with different aspects of performance and/or theatre management. Requires students to maintain a journal and submit a final paper to faculty internship coordinator. Graded: Credit/No Credit Units: 2.00 - 3.00 Credit/No Credit

THEA 199. Special Problems in Theatre. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring
Individual project or directed reading.
Note: Departmental petition required.

THEA 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring
Completion of a thesis, directing project, or playwriting project.

Women's and Gender Studies (WGS)

WGS 50. Introduction to Gender & Sexuality. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
Introduction to basic concepts and issues informing studies in gender, gay, lesbian, bisexual and transsexual/gender (GLBT) identities. Classic and contemporary texts from different cultures will cover biological, historical and social constructions of gender and sexuality. Transformations in family and society, global and intersectional perspectives on GLBT identity, political activism, cultural and social perceptions of gender and sexuality will be discussed.

WGS 75. Introduction to Disability Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
This course is an introduction to disability studies. An intersectional approach to knowledge construction about disability will be examined. This interdisciplinary study draws on humanities and social sciences, feminism, medical and scientific literature, and popular sources. How gender, race, class, sexuality, ethnicity, and nationality intersect with disability to shape experience will be analyzed. Historical and contemporary social movements and activism by people with disabilities will also be discussed.

WGS 85. Introduction to Women's & Gender Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring
This course is an introduction to basic concepts and issues informing studies in gender, gay, lesbian, bisexual and transsexual/gender (GLBT) identities. Classic and contemporary texts from different cultures will cover biological, historical and social constructions of gender and sexuality. Transformations in family and society, global and intersectional perspectives on GLBT identity, political activism, cultural and social perceptions of gender and sexuality will be discussed.

WGS 110. Introduction to Feminist Movements in the United States. 3 Units
General Education Area/Graduation Requirement: GE AREA D, United States History
Term Typically Offered: Fall, Spring
An examination of the institutional structures, practices and ideals contributing to feminist struggles, and achievements of feminist movements in the United States. Including contemporary struggles for social justice by women and LGBTQ people, this course explores how factors of race, class, gender, and sexuality have contributed to the emergence of feminist consciousness and struggles for rights in the United States from the nineteenth century to the present time.
WGS 118. Asian American Women. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Using an interdisciplinary approach, course offers a broad introduction to broad principle values and traditions shaping Asian American women's lives in the U.S. Examines cultural diversity, gender inequality and conflicts between traditions and social practices through critical analysis of literature, film and cultural theories as expressions of identity. Topics covered include: cultural heritage and philosophies, intergenerational conflict, transnationalism, gender roles and socio-economic practices. Comprehensive understanding principle factors governing Asian American women's lives at the nexus of Asian and American cultures. Cross-listed: ETHN 118.

WGS 120. Mother Woman Person. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

This course applies principles of feminism to the study of motherhood as social institution and private experience. Students explore family, cultural and social values that influenced their mothers and grandmothers, analyzing the impact of social institutions on their own childhood and adulthood. Students develop awareness of the historic evolution of women's social and private roles and the changing emphasis on woman as mother, wife/sexual companion and wage earning person largely through African American women's social movements.

WGS 121. Women Of The Middle East. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Provides an introduction to historical and contemporary conditions affecting women's lives and contributions to Middle Eastern societies. Readings will be framed with a focus on women within state systems and political life, economic activity, family systems, religious thought and law, health, arts and literature.

WGS 125. Sex & Gender in South Asia. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring, Summer

This course focuses on love, sex & gender in the cultures of South Asia starting with ancient times to the present. The influence of social customs, traditions, religion, and social class on human relationships will be examined using various texts and films. Gender and sexual identity, sexual desire, eroticism, sex role stereotyping, violence against women, gay and transgender people, subversive desires and the threat they pose to patriarchal structures will be explored.

WGS 133. Gender & Health. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

This course explores feminist analyses of medicine. An intersectional approach to how medical science constructs knowledge about health will be examined. This interdisciplinary study draws on humanities and social sciences; feminism; medical, scientific, and clinical literature; popular sources; and web discourses. How gender, race, class, sexuality, ethnicity, nationality, and disability intersect and shape behavior and experience will be analyzed. Contemporary social movements and activism by women and LGBTQIA+ people will also be discussed.

WGS 136. Gender, Race, and Class. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring

Designed to examine the effects of the dynamic interaction of gender, race, and class on women. The social construction of gender, race, and class will also be examined. Other topics to be discussed and researched are the effects of sexism, racism, and classicism on institutions such as academia, business, government, religion, and social movements. Also provides an analysis of effective techniques to end sexism, racism, and classicism.

WGS 137. Women of Color. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring, Winter

This course examines significant issues that have contributed to the historical experiences of cisgender and transgender women of color in the United States. Contemporary resistance to violence and struggles for social justice will also be examined. Topics such as racial and cultural stereotypes, economic exploitation, gender stratification, struggles over identity, immigration status, and community activism and organizing efforts by Black, Native American, Latinx, Middle Eastern and Asian American women will be examined using classic and contemporary feminist readings and films.

WGS 138. Women and Work. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

Explores topics basic to discussion of women's paid and unpaid work from historical and crosscultural perspectives. Consideration is given to popular conceptions and stereotypes of work and "women's issues" in the industrialized world; the private and public lives of women and men with emphasis on work and social realities; and the maintenance of patriarchy under capitalism, socialism and communism, with some possible feminist "solutions."

WGS 139. Violence Against Women. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines the gendered and systemic nature of violence. Focuses on understanding and preventing violence against women. This course investigates oppression and privilege using an intersectional and transnational feminist lens and looks at how gender-based violence is perpetuated through some of the following: sexual harassment and assault, domestic violence, child abuse, medical and psychiatric violence, economic violence, military violence, and state violence. This course also examines the ways that women are individually and collectively combating these various forms of violence.
WGS 140. Latinx Feminist Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

This course offers students feminist frameworks for understanding Latinx feminisms as a field of study and political inquiry. Latinx feminisms and their development are mapped alongside queer, trans, Black, Indigenous, women of color, and antiracist feminisms and movements. Centers the creative and critical ways in which Latinx feminists conceptualize oppression, resistance, social transformation, and the abolition of systems of domination. Students will analyze the complexity, heterogeneity, and interconnectedness of U.S. based Latinx feminisms.

WGS 144. Women and Theatre: Staging Diversity. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Includes study of recent feminist performance theory and criticism and its application to acting, directing, and writing for the theatre. Students will participate in both lecture/discussion and activities, including the creation of a final performance. Lecture two hours; lab two hours.
Cross Listed: THEA 144; only one may be counted for credit.

WGS 145. Feminism and the Spirit. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

This course examines Goddess cultures and the power of feminist spirituality and healing across different cultures and time-periods using Art & Literature. Sexism in institutionalized religions, advances women are making, and the backlashes they are suffering will be discussed. The `witch craze¿ which began in Europe, how women across the world continue to suffer from accusations of witchcraft today will be covered. We will examine aspects of the modern feminist spiritual movement and its strong ties to the environmental movements.

WGS 146. Women In Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Study of the unique and important contributions of women to the visual arts (Renaissance to present) and their personal struggle toward success and recognition. The Women's Art Movement and its impact on education, museums and women's status in the arts are important topics of this class.

WGS 147. Women & Globalization. 3 Units
Prerequisite(s): Minimum 45 units completed
Term Typically Offered: Fall only

This advanced interdisciplinary course will explore the gendered effects of globalization across the world at local, national, and global scales. Using feminist approaches, the course will examine issues of gender equity and uneven distribution of power created by the intersection between capitalism, colonialism, and patriarchy. Topics such as economic globalization, war and militarism, tourism, sex trafficking, food security and environmental justice, gender-based violence, healthcare, migration and global activism will be covered in the course.

WGS 150. Introduction to Queer and Trans Studies. 3 Units
Prerequisite(s): WGS 50 or instructor permission.
Term Typically Offered: Fall only

Introduces students to the fields of queer theory and trans theory from a transnational feminist perspective. Includes theoretical approaches to the history of sexuality and the politics of sexual and gender normativity. Places queer and trans studies in conversation with Native studies, disability studies, postcolonial theory, critical race and ethnic studies, and feminist theory.

WGS 166. Gender and Politics. 3 Units
Term Typically Offered: Spring only

This course examines the influence of socially constructed meanings of femininity and masculinity on the political participation of women, candidate selection, election campaigns, and electoral outcomes in executive and legislative offices in the U.S. and worldwide. Students will develop a rich understanding of the relationship between gender and women's political representation and analyze and discuss institutional, structural, cultural, and historical conditions associated with women's voting behavior, political advancement, leadership styles, and impacts of political representation on women.
Cross Listed: POLS 166; only one may be counted for credit.

WGS 172A. LGBTQ Histories. 3 Units
Term Typically Offered: Spring only

This course provides an introduction to the study of lesbian, gay, bisexual, transgender, and queer (LGBTQ) histories. Uses an interdisciplinary and comparative approach to explore the historical emergence and development of LGBTQ identities, communities, and political movements. Includes theoretical analysis of the history of gender and sexuality and the practice of historical analysis.
Cross Listed: HIST 172A; only one may be taken for credit.

WGS 175. Gender & Disability. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

This interdisciplinary course utilizes texts from various humanities and social sciences disciplines to survey the field of feminist disability studies, with emphasis on intersectional feminist disability theory, narrative, and practice. Attention will be given to historical and contemporary social movements and activism by disabled people, focusing particularly on disability justice. Students will analyze how individual experiences of gender, race, class, sexuality, ethnicity, and nationality intersect with disability to reflect institutional bias against multiply marginalized disabled people.

WGS 180. Seminar in Feminist Theory. 3 Units
Prerequisite(s): WGS 110 or instructor permission.
Term Typically Offered: Spring only

Advanced course providing detailed inquiry into specific feminist theories, including their conceptual framework and development, relationship to other political theories and application to the current practices of feminism.
WGS 195A.  Fieldwork in Women's Studies.  1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised experience in selected women's organizations and projects in the Sacramento area; for example, the Rape Crisis Center, Women Escaping a Violent Environment (WEAVE), Sacramento Women's Center. Credit/No Credit

WGS 198.  Special Topics in Women's and Gender Studies.  3 Units
Prerequisite(s): WGS 85 or WGS 110
Term Typically Offered: Fall, Spring

Examines various topics within the field of women's and gender studies. Different issues will be covered based on the interests and expertise of the faculty teaching the course. Approaches topics from broadly intersectional perspectives using feminist concepts and methods. Potential topics include: Feminism & War; Queer & Trans Migrations; Gender, Sexuality & Mass Incarceration; Gender & Human Rights; Reproductive Justice; Feminist Disability Studies; LGBTQ Health; Black Motherhood; Black Feminist Activism; Gender & Education; Comparative Feminisms.

WGS 199.  Special Problems.  1 - 3 Units
Prerequisite(s): WGS 115 and instructor permission.
Term Typically Offered: Fall, Spring

Supervised individual research projects or directed reading specifically related to Women's Studies topics. Should be taken by students who can work on an individual basis. Credit/No Credit

WGS 299.  Special Research Problems.  1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised research projects and directed study specifically related to Women's Studies and taken on an individual basis by Graduate students in the Special Major Graduate Program. Credit/No Credit

World Languages & Literatures (WLL)

WLL 15.  World Literatures in Film.  3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Interpreting cinema as literary text, this course will explore, compare, and contrast diverse cultures through cinema. All films will be viewed in the original language with English subtitles. The focus will be on linguistic, cultural, and regional characteristics, values, and differences. This section will focus on cinematic interpretations of world literatures.

WLL 21.  First Year Seminar: Becoming an Educated Person.  3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students build a community of academic and seminar faculty to and personal support.

WLL 120A.  Language and written culture in Ancient Greece.  3 Units
Term Typically Offered: Fall, Spring

This is the first part of the two-semester hybrid course on Ancient Greek language and written culture. The language component of the course is taught online through interactive language-teaching website, while the weekly meetings are mainly discussions on Ancient Greek texts in translation. The focus in this first part is on basic grammatical rules, the reading and construction of simple sentences, and the study of Greek written culture from its beginnings to the Classical Period. Note: This course cannot be used to fulfill the undergraduate foreign language graduation requirement. Cross listed: HIST 101A; only one may be counted for credit.

WLL 120B.  Language and written culture in Ancient Greece.  3 Units
Prerequisite(s): WLL 120A
Term Typically Offered: Fall, Spring

This is the second part of a two-semester hybrid course on Ancient Greek language and written culture. The language component of the course is taught online through an interactive language-teaching website, while the weekly meetings are mainly discussions on Ancient Greek texts in translation. The focus in this second part is on advanced grammar, the reading and understanding of long passages, and the study of Greek written culture from the Classical Period to the Roman era. Note: This course cannot be used to fulfill the undergraduate foreign language graduation requirement. Cross listed: HIST 101B; only one may be counted for credit.

WLL 199.  Special Problems.  1 - 3 Units
Prerequisite(s): Permission of instructor supervising work, the advisor, and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on independent study.

WLL 385.  Foreign Languages in the Secondary School.  3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Problems of teaching foreign language; evaluation of methods in the light of objectives; discussion of techniques and source materials. Should be taken prior to or with student teaching. Discussion, participation in such classroom activities as panel discussions, presentations and demonstrations. Cross listed: EDTE 385.

WLL 385A.  Methods in World Language Education, A.  1.5 Units
Corequisite(s): EDTE 474A
Term Typically Offered: Fall, Spring

This course is designed for candidates who are preparing to teach world languages in secondary school settings in California public schools. Candidates will learn about current theoretical bases for second-language acquisition and how such theories inform classroom practice. Candidates have introductory opportunities to practice principles of learning from which teachers can draw as they make decisions about instruction. Lecture Discussion and simulation. Prerequisite Admission into the Single Subject Teacher Credential Program Cross Listed: EDTE 385A; only one may be counted for credit.
WLL 385B. Methods in World Languages Education, B. 1.5 Units

Prerequisite(s): WLL 385A or EDTE 385A
Corequisite(s): EDTE 474B
Term Typically Offered: Fall, Spring

This course continues learning initiated in WLL 385A and is designed for candidates preparing to teach world languages in secondary school settings in California public schools. Candidates will learn additional methodologies for planning and delivering instruction in world languages. Candidates will practice instructional strategies and will design lessons. Candidates will implement assessments that capture student learning of key world language outcomes, including oral language and written language development and reading fluency. Strategies for teaching cultural appreciation are also embedded. Lecture, discussion and simulation.

Cross Listed: EDTE 385B; only one may be counted for credit.
# FACULTY DIRECTORY

## A

<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABADI, MASOUD (2018)</td>
<td>Assistant Professor of Civil Engineering, CE,B.S., Amirkabir University of Technology, M.S. Sharif University of Technology, Ph.D., Oregon State University</td>
</tr>
<tr>
<td>ABAH, TERESA (2020)</td>
<td>Assistant Professor of Gerontology, GER, Ph.D., University of North Texas, Denton, TX; MS, Benue State University, Makurdi, Nigeria; BS Federal University of Agriculture, Makurdi, Benue State, Nigeria</td>
</tr>
<tr>
<td>ABENDROTH, KATHLEEN</td>
<td>Assistant Professor of Communication Studies, COMS, B.A., California State University, San Bernardino; M.A., Stanford University</td>
</tr>
<tr>
<td>ACEVES-AZUARA, ITZEL</td>
<td>Assistant Professor of Psychology, PSYC, B.S., Instituto Tecnológico de Estudios Superiores de Occidente; M.A., Ph.D., University of California Santa Cruz</td>
</tr>
<tr>
<td>AGUILAR, KIMBERLY (2018)</td>
<td>Assistant Professor of Communication Studies, COMS, B.A., California State University, San Bernardino; M.A., California State University, San Bernardino; Ph.D, The University of Utah</td>
</tr>
<tr>
<td>AINSWORTH, DALE W. (2014)</td>
<td>Associate Professor of Public Health, PUBH, B.A., Mississippi College; M.S., Pepperdine University; Ph.D., Saybrook University</td>
</tr>
<tr>
<td>AKUTSU, PHILLIP D. (2008)</td>
<td>Professor of Psychology, PSYC, B.S., University of Washington; Ph.D. University of California, Los Angeles</td>
</tr>
<tr>
<td>ALEXANDER, KRISTEN (2002)</td>
<td>Professor, College of Education, Undergraduate Studies in Education, UGSE, B.A., University of California, Riverside; Ph.D., University of California, Davis</td>
</tr>
<tr>
<td>ALLENDER, DALE (2014)</td>
<td>Associate Professor, College of Education, Teaching Credentials, TC, B.A. University of Wisconsin, Milwaukee; M.A., University of Iowa; Ph.D., University of Queensland, Australia</td>
</tr>
<tr>
<td>ALTMAN, ROBIN (2016)</td>
<td>Associate Professor of Biological Sciences, BIO, B.S., University of California, San Diego; Ph.D. University of California, Davis</td>
</tr>
<tr>
<td>ALTMANN, TANYA (2003)</td>
<td>Professor of Nursing; Chair, School of Nursing, NURS, B.N., Memorial University, Newfoundland, Canada; M.S.N., Clarkson College; Ph.D, Duquesne University-Pennsylvania</td>
</tr>
<tr>
<td>AMATA, BENJAMIN T. (1985)</td>
<td>Librarian, Reference, SPB, A., California State University, Northridge; M.L.S., University of California, Berkeley</td>
</tr>
<tr>
<td>ANDERSEN-RODGERS, DAVID R. (2006)</td>
<td>Professor of Political Science; Graduate Program Coordinator, POLS, B.A., Hampshire College, Amherst, Massachusetts; M.A., Ph.D., University of Maryland, College Park</td>
</tr>
<tr>
<td>ANDERSON, MIKAEL (2003)</td>
<td>Professor of Construction Management; Chair, Department of Construction Management, CM, B.S., M.S., University of California, Davis; Registered Professional Engineer; Licensed General Contractor</td>
</tr>
<tr>
<td>ANDERSON-POWELL, AMY (1996)</td>
<td>Lecturer of English, ENGL, B.A., M.A., California State University, Sacramento</td>
</tr>
<tr>
<td>ARAD, BEHNM S. (1997)</td>
<td>Professor of Computer Science and Interim Associate Dean, CSC, B.S., University of Massachusetts, Lowell; M.S., Purdue University, West Lafayette, Indiana; Ph.D., Louisiana State University, Baton Rouge</td>
</tr>
<tr>
<td>ARELLANO, ADELE (1998)</td>
<td>Professor of Education, Teaching Credentials, TC, B.A., Saint Mary's College of California, Moraga; M.A., California State University, Sacramento; Ph.D., Stanford University</td>
</tr>
<tr>
<td>ARGUELLO, TYLER M. (2014)</td>
<td>Associate Professor of Social Work; Chair, Division of Social Work, SWRK, B.A.S.W., B.A., M.S.W., Ph.D. (Social Welfare), University of Washington, Seattle</td>
</tr>
<tr>
<td>ARMSTRONG, RICHARD (2008)</td>
<td>Associate Professor of Civil Engineering, CE, B.S., University of Manitoba, Canada, M.S. Stanford University; Ph.D. University of California, Davis, CA Registered Civil Engineer</td>
</tr>
<tr>
<td>ARPAGIAN, JASMINE (2021)</td>
<td>Assistant Professor of Geography, GEOG, B.A., University of California, Los Angeles; M.A., University of Michigan, Ann Arbor; Ph.D., San Diego State University/University of California, Santa Barbara</td>
</tr>
<tr>
<td>ARYANI, CYRUS (1988)</td>
<td>Professor of Civil Engineering, CE, B.S., M.S., Ph.D., Utah State University; California Registered Civil Engineer</td>
</tr>
<tr>
<td>ASHTARI, SADAF (2017)</td>
<td>Assistant Professor of Management Information Systems, BUS, B.A., Qazvin Azad University; M.A., Science and Research Azad University; Ph.D., Eastern Michigan University</td>
</tr>
<tr>
<td>ASSADI, POORIA (2017)</td>
<td>Assistant Professor of Management, BUS, B.S., Iran University of Science and Technology; M.S., University of British Columbia; Ph.D., Simon Fraser University</td>
</tr>
<tr>
<td>ATAMAZ, SERPIL (2017)</td>
<td>Associate Professor of History; Director, Middle East and Islamic Studies, HIST, B.A., Middle East Technical University; M.A., Ph.D. University of Arizona</td>
</tr>
<tr>
<td>AUGUST, RACHEL A. (1997)</td>
<td>Professor of Psychology, PSYC, UGSE, B.A., University of Virginia, Charlottesville; M.A., Ph.D., The Claremont Graduate School, Claremont, CA</td>
</tr>
<tr>
<td>AYALA-LÓPEZ, SARAY (2016)</td>
<td>Associate Professor of Philosophy, PHIL, B.A., University of Murcia, Spain; M.A., Ph.D., Autonomous University of Barcelona, Spain</td>
</tr>
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## B

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<thead>
<tr>
<th>Name</th>
<th>Title and Affiliation</th>
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<tbody>
<tr>
<td>BAIJOCHI, ARTURO (2015)</td>
<td>Associate Professor of Social Work; Graduate Program Director, SWRK, B.A., University of California, Davis; M.A., Ph.D. (Sociology), University of Minnesota</td>
</tr>
</tbody>
</table>
BAKER, SUE (2001), Professor of Education, Teaching Credentials, TC.B.A., Kenyon College, Gambier, Ohio; M.A., Ph.D., Stanford University

BAKER, BRIAN (2002), Professor of Ethnic Studies, ETHN,B.S., Northland College; M.A., Central Michigan University; M.A., Ph.D., Stanford University

BALAKRISHNAN, JAYDEEP (2019), Professor of Supply Chain Management, Associate Dean for Faculty Support, College of Business, BUS,B.E. Nagpur University; MBA The University of Georgia; PhD Indiana University, Bloomington

BALDUS, BRIAN (2013), Associate Professor of Marketing, BUS,B.S., Brigham Young University; Ph.D., Michigan State University

BALDWIN, ALETA (2020), Associate Professor of Public Health, PUBH,B.A., University of Nevada, Las Vegas; M.A., M.P.H., Ph.D., Indiana University, Bloomington

BALLERINI, EVANGELINE (2019), Assistant Professor of Biological Sciences, BIO,B.A., University of California, Berkeley; Ph.D., Harvard University

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BROCK, STEPHEN (2001), Professor of Education, Graduate and Professional Studies in Education, GPSE.

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BLY, ANTONIO (2019), Associate Professor of History; Peter H. Shattuck Endowed Chair in Colonial American History, HIST,B.A., Norfolk State University; M.A., Ph.D., College of William and Mary

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Taylor, Christopher L. (2003), Professor of Physics and Astronomy; Chair, Department of Physics and Astronomy, PHYS, B.S., Michigan State University; Ph.D., University of Minnesota

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Thakur, Sudhir (2005), Professor of Real Estate, Land Use, and Quantitative Methods, BUS, B.A., University of Delhi; M.A., Punjab University; M.A., University of Akron; Ph.D., The Ohio State University

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ALEXANDER, SHARON (1973), Professor, College of Education Emeritus
ALLAN, WILLIAM G. (1969), Professor of Art Emeritus (1999)
ALLEN, ADINA (1967), Professor of Social Work Emeritus (1986)
ALVAYAY, JAIME R. (1991), Professor of Real Estate and Land Use Affairs Emeritus (2016)
AMOS-WAGNER, GWEN (1987), Professor of Graphic Design Emeritus (2014)
ANDERSON, LEE (1970), Professor of Design Emeritus (2000)
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ANDREWS, E. EARL (1956), Professor of Home Economics Emeritus (1979)
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DATEL, ROBIN E. (2002), Professor of Geography Emeritus (2018)
DAVAMO, AKBAR (1988), Professor of Public Health Emeritus
DAVEY, TREVOR B. (1958), Professor of Mechanical Engineering Emeritus (1996)


DAVIS, FORREST (1994), Professor, College of Education Emeritus

DAVIS, ZEPHANIAH T. (1985), Professor, College of Education Emeritus

DAVIS, CHARLES J. (1982), Professor of Accountancy Emeritus (2019)

DAVIS, ROGER (1993), Assistant Professor of Criminal Justice Emeritus (2006)

DAWSON, MARY J. (1979), Professor of Nursing Emeritus (1992)

DE HASS, STEVEN (1986), Professor of Electrical and Electronic Engineering Emeritus (2010)

DeBOW, KEN M. (1992), Professor of Political Science Emeritus (2003)

DECIOUS, DANIEL R. (1967), Professor of Chemistry Emeritus (2000)

DELISLE, ALBERT L. (1956), Professor of Biological Sciences Emeritus; Curator, Goethe Arboretum (1977)

DENNIS, HARRY (1970), Professor of Spanish and Portuguese Emeritus (2000)

DEUEL, PETER G. (1956), Professor of Chemistry Emeritus (1985)

DI GIORGIO, JOSEPH B. (1964), Professor of Chemistry Emeritus (2000)

DICKINSON, RICHARD L. (1970), Professor of Business Administration; Executive Director, The California State University Real Estate and Land Use Institute Emeritus (2000)

DICKSON, M. ELAINE (1966), Professor of Human Environmental Sciences Emeritus (1995)

DILLON, WILLIAM A. (1964), Professor of Political Science Emeritus (2020)

DILLON, MARSHA J. (1969), Professor of Geography Emeritus (2020)

DILWORTH, GARY D. (1987), Professor of Music (2020)

DIXON, VIRGINIA L (1994), Professor, College of Education Emeritus

DOKIMOS, ELIZABETH (1972), Professor of Speech Pathology and Audiology Emeritus (2000)

DONALDSON, ROBERT C. (1957), Professor of History Emeritus (1986)

DONATH, JACKIE R. (1991), Professor of Humanities and Religious Studies Emeritus (2016)

DOOLITTLE, JOHN H. (1966), Professor of Psychology Emeritus (2001)

DORN, DEAN S. (1965), Professor of Sociology Emeritus (1999)

DOWDEN, BRADLEY (1985), Professor of Philosophy Emeritus

DOWNS, LOUIS (2003), Professor, College of Education Emeritus

DRAPER, ROY D. (1964), Professor of Chemistry Emeritus (1992)

DRIESBACH, JOHN (1981), Professor of Art Emeritus (2007)

DRUMMOND, BRUCE (1969), Professor of Kinesiology Emeritus (2001)

DUKES, R.N., MARTHA (1964), Professor of Nursing Emeritus (1996)

DUNSTAN, ANGUS (1989), Professor of English Emeritus

DURAN, ELVA (1990), Professor, College of Education, Teaching Credentials Emeritus


DWORKIN, Joan (1994), Professor of Social Work Emeritus (FERP)

EBRAHIMZADEH, ELIZABETH S. (1984), Professor of Mathematics and Statistics Emeritus (2014)

EDEN, CHARLES K. (1976), Professor of Criminal Justice Emeritus (2000)

EDWARDS, ROBERT D. (1971), Professor, College of Education Emeritus

ELVENBAUM, LOUIS (1970), Professor of Kinesiology Emeritus (2003)

ELSTOB, KEVIN (1999), Professor of French and Italian Emeritus

ENDRES, RAYMOND J. (1973), Professor, College of Education Emeritus


ESQUERRA, ROLAND F. (1972), Professor of Mathematics and Statistics Emeritus (2010)

ESTENSON, JERRY D. (1997), Professor of Organizational Behavior Emeritus (2014)

ETTER, ROBERT (1982), Professor of Mathematics and Statistics Emeritus (2010)


EWING, NICHOLAS N. (1994), Professor of Biological Sciences Emeritus (2017)

EYLER, LEO B. (1993), Professor of Music Emeritus (2018)

FALZONE, PAUL R. (1971), Professor of Criminal Justice Emeritus (2001)

FARIA, IRVIN E. (1958), Professor of Kinesiology and Health Science Emeritus (1999)


FERGUSON, ROXANNE (2006), Assistant Professor of Nursing Emeritus

FIGLER, STEPHEN F. (1974), Professor of Physical Education Emeritus (1994)

FISHER, ROBIN (2003), Professor of Music Emeritus

FITZGERALD, MICHAEL J. (1986), Professor of Communication Studies Emeritus (2007)
FITZWATER, MICHAEL D. (1972), Professor of Geography Emeritus (2003)
FLORES, DORIS E. (1976), Professor of Kinesiology Emeritus (2018)
FORKEY, DAVID M. (1969), Professor of Chemistry Emeritus (2001)
FOX, SYLVIA (1990), Professor of Communication Studies Emeritus (2007)
FOX, RONALD T. (1974), Professor of Political Science Emeritus (2005)
FOZOUNI, BAHMAN (1990), Professor of Political Science Emeritus (2015)
FREUND, DWIGHT (1983), Professor of Computer Science Emeritus (2004)
FRIEDMAN, ROBERT S. (1971), Professor of Political Science Emeritus (2005)
FROST, STANLEY P. (1975), Social Science Reference Librarian Emeritus (2005)
FUOSS, DONALD E. (1971), Professor of Physical Education Emeritus (1988)
FUTERNICK, KENNETH D. (1989), Professor, College of Education Emeritus

GALE, EMANUEL (1967), Professor of Social Work Emeritus (1998)
GARDNER, PAULA (1995), Professor, College of Education Emeritus
GARMSTON, ROBERT (1980), Professor, College of Education Emeritus
GAROSI, FRANK J. (1965), Professor of History Emeritus (2001)
GASTON, JESSIE (1989), Professor of History Emeritus (2021)
GATES, THOMAS M. (1972), Professor of Theatre Arts and Ethnic Studies Emeritus (1995)
GAUGHEN, SUZANNE M. (1985), Professor, College of Education Emeritus
GELUS, MARJORIE (1983), Professor of German Emeritus (2008)
GEZI, KAL I. (1969), Professor, College of Education Emeritus
GHANSAH, ISAAC (1987), Professor of Computer Science Emeritus (2022)
GIBSON, EDWARD F. (1969), Professor of Physics and Astronomy Emeritus (2001)
GILLOTT, DONALD H. (1968), Professor of Electrical and Electronic Engineering; Dean, College of Engineering and Computer Science Emeritus (1994)
GLOVINSKY, BEN (1965), Professor of Music Emeritus (2003)
GOETZE, CAROLYNN (2005), Professor of Nursing Emeritus (2015)
GOFF, LINDA (1986), Librarian, Head of Instructional Services Emeritus (2014)
GOFF, SHARMON (2002), Professor of Photography Emeritus (2012)
GOLANTY-KOEL, RENEE (1985), Professor, College of Education Emeritus
GOLDSMITH, JOACHIM (1972), Professor of Criminal Justice Emeritus (2003)
GOLDSWORTHY, CANDACE L. (1985), Professor of Speech Pathology and Audiology Emeritus (2009)
GOLUB, ARNOLD M. (1976), Professor of Psychology Emeritus (2005)
GOMEZ, SUSAN (1996), Professor, College of Education Emeritus
GOODART, MARGARET M. (1971), Professor of History Emeritus (2000)
GOODRICH, LINDA (1990), Professor of Theatre and Dance Emeritus
GOULARD, CARY J. (1975), Professor of Recreation and Leisure Studies Emeritus (2002)
GRAY, CECILIA DOLORES (1968), Professor of Family and Consumer Sciences Emeritus (2002)
GRAY, STEVEN (1987), Professor of Recreation, Parks and Tourism Administration (2020)
GREGG, MIGNON S. (1971), Professor of Political Science Emeritus (2005)
GREGORICH, STEVE V. (1974), Professor, College of Education Emeritus
GRUNDY, SUSAN E. (1982), Professor of Nursing Emeritus (2005)
GUARINO, RICHARD (1980), Professor of Management Emeritus (2011)
GUNTHER, PAULINE (1970), Professor of Physical Education Emeritus (1992)
GUNSTON-PARKS, CYNTHIA A. (1985), Professor of Education Emeritus
GUNSTON-PARKS, CYNTHIA A. (1985), Professor, College of Education Emeritus
GUNTER, ANNIK L. (1970), Professor of French Emeritus (2001)
GUSTAFSON, HARRY (1969), Professor of Criminal Justice Emeritus (1996)

H

HAFFER, ANN G. (1986), Professor of Nursing Emeritus (2002)
HALLINAN, TIM S. (1969), Professor of Geography Emeritus (2001)
HALSETH, ROBERT (1993), Professor of Music Emeritus (2011)
HAMMER, J. GORDON (1977), Associate Professor of Civil Engineering Emeritus (1984)
HANNAH, LARRY S. (1969), Professor, College of Education Emeritus
HANSON-SMITH, ELIZABETH (1971), Professor of English Emeritus (1995)
HANSON-SMITH, BRENDA (1990), Professor of Nursing Emeritus (2016)
HAQ, TALIB UL (1974), Professor of Criminal Justice Emeritus (1992)
HARRISON, MEROY E. (1981), Professor of Management and Vice President for Administration Emeritus (1997)
HATTON, LINDLE G. (1990), Professor of Strategic Management Emeritus (2017)
HAUPERT, THEODORE J. (1969), Professor of Chemistry Emeritus (1994)
HEBERT, THOMAS E. (1971), Professor of Management Information Systems Emeritus (2001)
HECSH, JANET (1999), Professor, College of Education, Undergraduate Studies in Education Emeritus
HEFLIN, THOMAS L. (1984), Professor of Finance; Director, Insurance Education and Research Program Emeritus (2001)
HEIDECKER, LORRAINE (1971), Professor of Anthropology Emeritus (2000)
HEILMAN, ROBERT JAMES (1968), Professor of Social Work Emeritus (1992)
HILL, JAMES CLIFTON (1968), Professor of Chemistry; Chair, Department of Chemistry Emeritus (2005)
HILLS, III, ERNIE M. (1984), Professor of Music Emeritus
HOLMEY, KATHRYN (1969), Professor of English Emeritus (1994)
HOLL, SUSAN L. (1980), Professor of Mechanical Engineering Emeritus (2017)
HOLLOWAY, RONALD A. (1966), Professor of Music Emeritus (1992)
HOM, LEONARD W. (1963), Professor of Civil Engineering Emeritus (1997)
HORNER, TIMOTHY (1993), Professor of Geology Emeritus (2018)
HOROBIN, KAREN D. (1994), Professor, College of Education Emeritus
HORTON, EDWARD J. (1968), Professor of Public Administration Emeritus (1978)
HRELJAC, ALAN (1999), Associate Professor of Kinesiology Emeritus (2007)
HUFF, DENNIS K. (1973), Professor of Biological Sciences Emeritus (2001)
HUGHES, LINDA K. (1967), Associate Professor of Physical Education Emeritus (1991)
HUGHES, RICHARD D. (1964), Professor of Political Science Emeritus (2000)
HURLEY, ROBERT M. (1976), Professor of Criminal Justice Emeritus (2003)
HWANG, JOHN C. (1972), Professor of Communication Studies; Director of Asian-American Studies Emeritus (2001)
HWANG, RALPH B. (1979), Professor of Civil Engineering Emeritus (2005)
HWANG, YUH LIN (1966), Professor of Biological Sciences Emeritus (1998)
HYDE, MARY LOU (1968), Professor of Social Work Emeritus (1988)
INGRAM, JOHN (1981), Professor of Mathematics and Statistics Emeritus (2016)
JACKSON, OLIVER (1970), Professor of Art Emeritus (1998)
JAKOB, FREDI (1961), Professor of Chemistry Emeritus (1996)
JAMES, JOHN FRANKLIN (1968), Professor of English Emeritus (2003)
JELINEK, DAVID (2000), Professor, College of Education Emeritus

JENKINS, STEVEN L. (1967), Professor of Communication Studies Emeritus (2001)

JENSEN, ARTHUR N. (1976), Professor of Marketing Emeritus (2003)

JENSEN, ROBERT G. (1976), Professor of Psychology Emeritus (2006)

JENSEN, CRISTY A. (1986), Professor of Public Policy and Administration Emeritus (2006)

JOHNS, W. LLOYD (1968), Professor of Social Work Emeritus (1997)

JOHNS, RALPH E. (1968), Professor of Social Work Emeritus (1997)

JOHNSON, THOMAS (1982), Professor of Criminal Justice Emeritus (1994)

JOHNSON, JERALD J. (1969), Professor of Anthropology Emeritus (2002)

JOHNSON, DOUGLAS A. (1959), Professor, College of Education Emeritus

JOHNSON, RALPH E. (1968), Professor of Social Work Emeritus (1997)

JOHNSON, JERALD J. (1969), Professor of Anthropology Emeritus (2002)

JOHNSON, DOUGLAS A. (1959), Professor, College of Education Emeritus

JOSEPH, JOHN (1997), Professor of Civil Engineering Emeritus (2022)

JOSEPH, JOHN (1997), Professor of Civil Engineering Emeritus (2022)


JONES, ROXALIE (1996), Lecturer Emeritus (2010)

JUDD, JUDY (1995), Professor, College of Education Emeritus

JUSTIN, GALE (1971), Professor of Philosophy Emeritus

KALLENBACH STEPHEN (1970), Professor of Art Emeritus (2000)


KANTZ, JR., PAUL T. (1967), Professor of Biological Sciences Emeritus (2000)

KARAGOZOGLU NECMI (1984), Professor of Strategic Management Emeritus (2016)

KAUFMAN, RICHARD F. (1979), Professor of Finance Emeritus (1992)

KAVALJIAN, LEROY G. (1954), Professor of Biological Sciences Emeritus (1991)

KEAN, ELIZABETH M. (1996), Professor, College of Education Emeritus

KEARLY, PATRICIA J. (1988), Professor, College of Education Emeritus

KEEGAN, RICHARD (2013), Associate Professor of Nursing Emeritus (2022)

KELLEY, CRAIG A. (1985), Professor of Marketing Emeritus (2011)

KELLOUGH, NOREEN (1989), Professor, College of Education Emeritus

KELLOUGH, RICHARD D. (1969), Professor, College of Education Emeritus

KELLY, KATHERINE (2005), Professor of Nursing Emeritus (2020)


KENDRICK, DONALD M. (1985), Professor of Music Emeritus (2018)

KENNEDY, LEONARD M. (1960), Professor, College of Education Emeritus

KENNEDY, DANIEL (1996), Professor of Music Emeritus (2019)

KENNEDY, ROBIN (1999), Professor of Social Work (2020) (FERP)

KENNEY, JIM (1988), Professor of Interior Design Emeritus (2018)

KENNY, MARY JO (1956), Professor of Home Economics Emeritus (1991)


KERBY, WILLIAM C. (1967), Professor of Economics; Director, Center for Economic Education Emeritus (2001)

KIBURI, FUNDI, Emeritus Faculty

KIDD, VIRGINIA (1974), Professor of Communication Studies Emeritus (2005)

KIM, JONG H. (1989), Professor of Accountancy Emeritus (2011)

KIM, CHUNG S. (1973), Professor of Chemistry Emeritus (1998)

KIM, EUGENE (1965), Professor, College of Education Emeritus

KINGSNORTH, RODNEY F. (1969), Professor of Sociology Emeritus (2005)

KIRLIN, MARY (2003), Associate Professor of Public Policy and Administration Emeritus (2017)

KOCHIS, MARIA (1999), Librarian, Reference Emeritus (2023)

KOEGEL, RAYMOND P. (1976), Professor of Communication Studies Emeritus (2016)

KOSTYRKO, GEORGE J. (1968), Professor of Civil Engineering Emeritus (1998)

KOTRLIK, JOSEPH J. (1956), Professor, College of Education Emeritus

KRABACHER, THOMAS S. (1988), Professor of Geography Emeritus (2023)

KRAFT, IVOR (1968), Professor of Social Work Emeritus (1986)


KROLAK, RICHARD (1973), Professor of Political Science Emeritus (1997)

KUHLE, JAMES (1984), Professor of Finance Emeritus (retired 2021)

KUSNICK, JUDITH E. (1996), Professor of Geology Emeritus (2017)


KUTZER, WILLIAM F. (1965), Professor of Kinesiology Emeritus (2001)

LAMBATING, JULITA G. (1997), Professor, College of Education, Undergraduate Studies in Education Emeritus
LAN, KWAI-TING (1983), Professor of Computer Science Emeritus (2011)
LANDERHOLM, THOMAS E. (2002), Professor of Biological Sciences (2019)
LANGHAM, JERI MAJOR (1970), Professor of Biological Sciences Emeritus (2003)
LaROCCO, JOHN B. (1993), Professor of Law Emeritus (2018)
LASCHER, JR., EDWARD L. (1996), Professor of Public Policy and Administration Emeritus
LATHI, BHAGAWANDAS P. (1980), Professor of Electrical and Electronic Engineering Emeritus (1997)
LEE, UNJA (1966), Professor of Political Science Emeritus (1992)
LEE, DAVID K. (1966), Professor of Sociology Emeritus (1998)
LEE, IVY (1970), Professor of Sociology Emeritus (1996)
LEE, MING-TUNG “MIKE” (1990), Professor of Marketing; Vice President of Administration and Chief Financial Officer (retired 2018)
LEE, LYNETTE (1990), Professor of Criminal Justice (2018)
LEE, EDMUND (1999), Professor, College of Education Emeritus
LEE, MARJORIE (1972), Professor, College of Education Emeritus
LeFEBVRE, EDITH E. (1986), Professor of Communication Studies (FERP) Emeritus (2021)
LEGORRETA, LEONARDO (2002), Assistant Professor of Management Information Systems Emeritus (2010)
LEON, DAVID J. (1988), Professor of Ethnic Studies Emeritus
LEVIN, AL S. (1998), Professor, College of Education Emeritus
LEWIS, MIMI (2005), Lecturer of Social Work Emeritus (2020)
LEWIS, MICHAEL JOHN (1981), Professor, College of Education Emeritus
LEWIS, CLARE (1996), Professor of Physical Therapy Emeritus
LIAL, JANET, Lecturer of Social Work Emeritus
LIU, TIEN-I (1987), Professor of Mechanical Engineering Emeritus (2011)
LIVEZEY, ROBERT L. (1954), Professor of Biological Sciences Emeritus (1976)
LIVINGSTON, JAMES ARTHUR (1968), Professor, College of Education Emeritus
LONAM, JO A. (1966), Professor of Interior Design Emeritus (1994)
LONG, DAVID W. (1967), Professor of Philosophy Emeritus
LOO, MELANIE (1977), Professor of Biological Sciences Emeritus (2009)
LoVERSO, ROSABIANCA (1967), Professor of French and Italian Emeritus (1991)
LOVING, RUSSELL (2006), Assistant Professor of Criminal Justice Emeritus (2020)
LOW, JANIE (1989), Professor, College of Education Emeritus
LOWER, RICHARD C. (1966), Professor of History Emeritus (1998)
LU, MEILIU (1987), Professor of Computer Science Emeritus (2021)
LUCHANSKY, ANDREW (1999), Professor of Music Emeritus

M
MacINTOSH, RANDALL C. (1997), Professor of Sociology Emeritus (2022)
MACKNEY, MARY (1972), Professor of English Emeritus (2003)
MACKNEY, JAMES T. (1987), Professor of Accountancy Emeritus (2011)
MADDEN, DAVID (1982), Professor of English Emeritus
MAESTAS, LEO (1978), Professor, College of Education Emeritus
MAHAJAN, SUKBIR (1975), Professor of Physics and Astronomy Emeritus (2005)
MAHONE, HAZEL (2002), Professor, College of Education Emeritus
MALET, JACQUES F. (1975), Professor of French Emeritus (2001)
MALROUTU, YAMINI LAKSHMI (2001), Professor of Family and Consumer Sciences Emeritus (2020)
MARENS, RICHARD S. (2002), Professor of Management Emeritus (2016)
MARINOBLE, RITA M. (1994), Professor, College of Education Emeritus
MARK, GREGORY (2001), Professor of Ethnic Studies Emeritus
MARKOVIC, MIROSLAV (1978), Professor of Electrical and Electronic Engineering Emeritus (2009)
MARRAH, GEORGE L. (1957), Professor Finance Emeritus (1983)
MARSHALL, PATRICIA (1983), Professor, College of Education Emeritus
MARTIN, DAVID (1983), Professor of Communication Studies Emeritus (2005)
MARTINEZ, MIGUEL (1979), Professor, College of Education Emeritus
MARTINEZ, KATHERINE R. (1993), Lecturer of Recreation, Parks and Tourism Administration (2021)
MATTHEWS, RILDA (2007), Lecturer Emeritus (2014)
MAYER, CAROLE (1977), Professor of Speech Pathology and Audiology Emeritus (2003)
MAYES, G. RANDOLPH (2001), Professor of Philosophy Emeritus
MCADAM, J. ROBERT (1960), Professor, College of Education Emeritus
MCBRIDE, JOEL P. (1966), Professor of Political Science Emeritus (1997)
MCCARTNEY, JAMES H. (1974), Professor of Speech Pathology and Audiology Emeritus (2005)
McDANIEL, GERALD R. (1961), Professor of Political Science Emeritus (1992)
McGINNIS, PAUL J. (1958), Professor of English Emeritus (1991)
McGINTY, SUSAN (1995), Professor of Physical Therapy Emeritus
McNAMEE, CAROLE (1991), Professor of Computer Science Emeritus (2001)
MEEKER, GARY L. (1967), Professor of Biological Sciences Emeritus (2001)
MEIER, SUSAN T. (1976), Professor of Criminal Justice Emeritus (2000)
MEINDL, ROBERT J. (1965), Professor of English Emeritus (2002)
MEJORADO, MARIA (2001), Professor, College of Education Emeritus (2001)
MERINO, RENE (1973), Professor, College of Education Emeritus (1997)
MERLINGO, SCOTT A. (2001), Associate Professor of Music Emeritus (2002)
METCALF, ROBERT (1970), Professor of Biological Sciences Emeritus (2007)
METZ, SUSAN (2008), Associate Professor of Music (2022)
MEYERS, MARTIN (1984), Lecturer Emeritus (2005)
MIGLIACCI, TODD (2002), Professor of Sociology Emeritus (2002)
MIKAL-FLYNN, JOYCE (2005), Professor of Nursing Emeritus (2005)
MILCHRIST, PAMELA (1973), Professor of Kinesiology Emeritus (2000)
MITCHELL, WILLIAM J. (1984), Professor of Computer Science Emeritus (2010)
MOMENT, JOAN V. (1972), Professor of Art Emeritus (2002)
MONICAL, SALLY K. (2007), Lecturer of Kinesiology Emeritus
MONEITH, TOM (2002), Professor of Art Emeritus (2021)
MOORE, CHARLES A. (1968), Professor of English Emeritus (1998)
MOORE, KATHLEEN C. (1996), Professor of Spanish Emeritus (2009)
MOORE, JOEL K. (1979), Professor of Civil Engineering Emeritus (2003)
MORSE, JOHN THOMAS (1968), Professor of Biological Sciences Emeritus (1995)
MOSER, CHARLES R. (1966), Professor of Biological Sciences Emeritus (2000)
MOULDS, ELIZABETH F. (1972), Professor of Public Policy and Administration Emeritus (2003)
MULLER, WAYNE CLINTON (1968), Professor of Political Science Emeritus (1994)
MULLINIX, FLOYD L (1956), Professor, College of Education Emeritus (1998)
MURAI, HAROLD M. (1973), Professor, College of Education Emeritus (1998)

N

NEAL, JAMES R. (1976), Professor, College of Education Emeritus (1998)
NEIDE, JOAN L. (1991), Professor of Kinesiology Emeritus (2001)
NELSON, CHARLES G. (1965), Professor of Electrical and Electronic Engineering Emeritus (1998)
NELSON, ROBYN M. (1973), Professor of Nursing Emeritus (2007)
NEUMAN, WILLIAM R. (1962), Professor of Civil Engineering Emeritus (1997)
NEWCOMB, CHARLES P. (1969), Professor of Physics Emeritus (2001)
NICKLES, RICHARD A. (1975), Professor of Civil Engineering Emeritus (1990)
NICOLA, JO-ANN (1973), Professor of Family and Consumer Sciences Emeritus (2000)
NOBLE, PAUL (1970), Professor of Chemistry; Associate Vice President for Academic Affairs, Planning and Resources Emeritus (2006)
NOUREDDINE, NASSRINE (2007), Associate Professor of Nursing Emeritus (2022)
NUMARK, MITCHELL (2008), Associate Professor of History Emeritus (2022)
NYE, VIRGINIA (1962), Professor of Music Emeritus (1991)
NYSTROM, BRADLEY (1991), Professor of Humanities and Religious Studies Emeritus (2018)
O'BRIEN, ELAINE (1998), Professor of Art Emeritus (2019)
O'CONNOR, BARBARA (1972), Professor of Communication Studies Emeritus (2005)
O'KEEFE, MAURA (2005), Professor of Social Work (FERP)
O'LEARY, MARION H. (1996), Professor of Chemistry; Dean, College of Natural Sciences and Mathematics Emeritus
O'NEILL, SHEILA K. (1999), Librarian, Special Collections and University Archives Emeritus (2017)
ODEN, ROBERT STANLEY (2001), Professor of Political Science Emeritus (2021)
OGDEN, JAC M. (1965), Professor of Art Emeritus (1999)
OGILBY, SUZANNE M. (1990), Professor of Accountancy (2022)
OKADA, DANIEL (2002), Professor of Criminal Justice (2022)
OLSON, CRYSTAL (2002), Associate Professor of Education Emeritus
OLSON, CRYSTAL (2002), Professor, College of Education Emeritus
OREY, DANIEL C. (1987), Professor of Education Emeritus
OREY, DANIEL C. (1987), Professor, College of Education Emeritus
ORSINI, JOSEPH L. (1983), Professor of Marketing Emeritus (2001)
OSBORNE, PHILLIP WALLACE (1968), Professor of Mechanical Engineering Emeritus (1982)
OSBORNE, CHERYL (1984), Professor & Chair Emerita, Department of Gerontology Emeritus (2022)
OSBORNE, JACK H. (1999), Lecturer of Physics and Astronomy Emeritus (2022)
OSTERTAG, BRUCE (1981), Professor, College of Education Emeritus
OTIS, JR., MORGAN (1970), Professor, College of Education Emeritus
OWEN, BILL (1990), Professor of Communication Studies Emeritus (1990)
OWENS, WILLIAM THOMAS (1998), Professor, College of Education, Teaching Credentials Emeritus
P
PAGE, JEROME M. (1955), Professor, College of Education Emeritus
PALMER, LINDA (1983), Professor of English Emeritus (2002)
PANNETON, JOHN (2006), Assistant Professor of Criminal Justice Emeritus (2011)
PAPA, ROSEMARY (1999), Professor, College of Education Emeritus
PARADIS, JEFFREY (2002), Professor of Chemistry Emeritus (2021)
PARKER, BRIAN P. (1973), Professor of Criminal Justice Emeritus (1988)
PARROTT, GEORGE L. (1969), Professor of Psychology Emeritus (2007)
PEARSON, MARY JANE (1980), Professor, College of Education Emeritus
PEEK, RONALD WILLIAM (1968), Professor of Kinesiology Emeritus (2004)
PERFLER, OLAF K. (1967), Professor of German Emeritus (2000)
PETERS, LORNA (1998), Professor of Music (2019)
PFEIFER, JEANNE E. (1985), Professor, College of Education Emeritus
PHelps, JAMES O. (1982), Professor of Physics and Astronomy Emeritus (Fall 2009)
PICKETT, MANUEL (1980), Professor of Theatre and Dance (2007)
PINCH, KATHERINE (2002), Professor of Recreation, Parks and Tourism Administration (2020)
PINCKNEY, NEAL T. (1967), Professor, College of Education Emeritus
PITTMAN, DEBORAH (1970), Professor of Music Emeritus (2008)
PLATZNER, ROBERT L. (1970), Professor of Humanities and Religious Studies Emeritus (2001)
PLESSAS, GUS P. (1957), Professor, College of Education Emeritus
PLETCHER, DALE D. (1975), Professor of Finance Emeritus (2004)
POLAND, JAMES M. (1975), Professor of Criminal Justice Emeritus (2004)
PLESSAS, GUS P. (1957), Professor, College of Education Emeritus
PLETCHER, DALE D. (1975), Professor of Finance Emeritus (2004)
POLAND, JAMES M. (1975), Professor of Criminal Justice Emeritus (2004)
POLASTRI, RICCARDO P. (1981), Associate Professor of Management Emeritus (1988)
POMO, ROBERTO (1999), Professor of Theatre and Dance Emeritus (2020)
POST, JAMES L. (1968), Professor of Civil Engineering Emeritus (1992)
POTTER, ROLLIN R. (1990), Professor of Music Emeritus (2004) - Chair
PRAJS, JANUSZ (1980), Associate Professor of Economics Emeritus (2001)
PRENTICE, WARREN L. (1959), Professor, College of Education Emeritus
PRICE, JONATHAN LEE (1968), Professor of English Emeritus (2005)
PRICE, NORMA LEE (1969), Professor of Physical Education Emeritus (1991)
PRITCHARD, ROBERT (1985), Professor, College of Education Emeritus
PYNE, THOMAS F. (1984), Professor of Philosophy Emeritus
QUADE, ANE M. (1989), Associate Professor of Economics Emeritus (2001)
RAINGRUBER, BONNIE (1991), Professor of Nursing Emeritus (2018)
RASKE, DAVID (1976), Professor, College of Education Emeritus
REARDON, FREDERICK H. (1966), Professor of Mechanical Engineering Emeritus (2001)
REDDICK, MARY (2001), Librarian, Head of User Services Emeritus (2017)
REESE, ROBIN (1981), Professor of Kinesiology Emeritus (2006)
REIHMAN, MARY ANN (1977), Professor of Biological Sciences Emeritus (2007)
REISNER, RONALD (2007), Professor of Theatre and Dance Emeritus (2018)
REN, XIN (1990), Professor of Criminal Justice Emeritus (2020)
RENDON, ANDRES (1970), Professor of Sociology and Ethnic Studies Emeritus (2001)
REVELEY, BETTY R. (1965), Professor of English Emeritus (1991)
RICE, JUANITA J. (1985), Professor of Theatre and Dance Emeritus (2001)
RICHARDS-EKEH, KAYLENE A. (1989), Associate Professor of Criminal Justice Emeritus (2011)
RIGEL, MICHAEL B. (1976), Professor of Art Emeritus (2005)
RITCHIE, JAMES M. (1977), Professor of Chemistry Emeritus (2017)
ROBERTS, PATRICIA L.B. (1977), Professor, College of Education Emeritus
ROBERTS, THERESA A. (1985), Professor, College of Education Emeritus
ROBERTS, MILES (1990), Professor of Geography Emeritus (2020)
RODRIGUEZ, CIRENIO (1981), Professor, College of Education Emeritus
RODRIGUEZ, RAUL (1987), Professor, College of Education Emeritus
ROGERS, MARTIN (1968), Professor of Psychology Emeritus (2002)
ROLOFF, HARVEY J. (1956), Professor of Physical Education Emeritus (1983)
ROMBOLD, CHARLES C. (1968), Professor of Recreation and Leisure Studies Emeritus (1991)
ROSCE, ADA (1976), Professor of Spanish Emeritus (1995)
ROSE, KATHLEEN , Lecturer Emeritus
ROSSER, ELLEN (1966), Professor of English Emeritus (1986)
RUIZ, NADEEN (1992), Professor, College of Education Emeritus
RUSSELL, JOSEPH L. (1972), Professor of Criminal Justice Emeritus (2000)
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SACO-POLLITT, CARMEN (1990), Professor, College of Education Emeritus
SAMANTRAI, KRISHNA (1987), Professor of Social Work Emeritus (1997)
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SANDMAN, THOMAS E. (1990), Professor of Management Information Systems Emeritus (2014)
SANTANA, JORGE A. (1972), Professor of Spanish Emeritus (2006)
SANTANA, MARIELA (1998), Associate Professor of Spanish Emeritus (2017)
SANTORA, RONALD A. (1972), Professor of English Emeritus (2005)
SAITO, EDWARD H. (1964), Professor of Recreation and Leisure Studies Emeritus (1983)
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SAVINO, RICHARD (1985), Professor of Music Emeritus
SCARBOROUGH, KAREN L. (1973), Professor of Kinesiology Emeritus (2000)
SCHAEUBLE, JOHN LOWELL (1968), Professor of Psychology Emeritus (2006)
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SCHEEL, DANIEL CURTIS (1969), Professor of Economics Emeritus (2001)
SCHMANDT, MICHAEL J. (2006), Professor of Geography Emeritus (2019)
SCHMITZ, DENNIS M. (1966), Professor of English Emeritus (1997)
SCHOLL, DALE (1977), Professor of Theatre and Dance Emeritus (2004)
SCOTT, OTIS, Professor of Ethnic Studies Emeritus
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SIMES, JAMES GORDON (1968), Professor of Electrical and Electronic Engineering Emeritus (1998)
SINGER, JENNIE (2007), Professor of Criminal Justice- Emeritus 2021
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STEWARD, DONALD L. (1987), Professor of Civil Engineering Emeritus (1998)

STEWARD, DONALD V. (1978), Professor of Computer Science Emeritus (1996)

STOCKERT, BRAD (2002), Professor of Physical Therapy Emeritus

STOFFERS, KARL E. (1965), Professor of Electrical and Electronic Engineering Emeritus (1998)

STOLTZ, ANN (2001), Professor of Nursing Emeritus (2010)

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STRADLEY, LYNN (1977), Professor of Music Emeritus (2007)

STRASSER, M. ELIZABETH (1990), Professor of Anthropology Emeritus (2017)

SU, HON-HSIEH (1967), Professor of Civil Engineering Emeritus (1997)

SUDE, HAZEL B. (1973), Professor of Home Economics Emeritus (1983)

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TAYLOR, THEODORE (1970), Professor, College of Education Emeritus

TAYLOR, DONALD (1990), Professor of Communication Studies (FERP)

TAYLOR, STANLEY A. (1983), Professor of Decision Sciences (retired 2021)

THEODORATUS, DOROTHEA J. (1967), Professor of Anthropology Emeritus (1994)

THOMAS, TERRANCE A. (1969), Professor, College of Education Emeritus

THOMPSON, HEATHER (2015), Associate Professor; Department Chair of Communication Sciences and Disorders

TIKASINGH, ANGEL J. (1967), Professor, College of Education Emeritus

TIMMER, LOUISE F. (1976), Professor of Nursing Emeritus (2021)

TOOTELIAN, DENNIS H. (1973), Professor of Marketing Emeritus (2010)

TORCOM, JEAN (1970), Professor of Political Science Emeritus (2002)

TOTO, JR., CHARLES (1968), Professor, College of Education Emeritus

TRAIN, JILL, Professor of Biological Sciences Emeritus (2017)

TRAPP, GENE R. (1970), Professor of Biological Sciences Emeritus (2001)


TSAI, SAN-YUN W. (1978), Professor of Management Information Systems Emeritus

TUCKER, STEPHANIE (1986), Professor of English Emeritus (2005)


TURNER, MARY ANN (1965), Professor of Physical Education Emeritus (1995)

TURRILL, CATHERINE L. (1995), Professor of Art Emeritus (2016)

TZAKIRI, ROBERT JEAN-PIERRE (1973), Professor of French Emeritus (1998)

UNDERWOOD, TERRY L. (1998), Professor, College of Education Emeritus

URONE, PAUL PETER (1973), Professor of Physics and Astronomy Emeritus (2005)

VADHVA, SURESH K. (1986), Professor of Electrical and Electronic Engineering Emeritus (2019)

VAIL, ROGER W. (1972), Professor of Art Emeritus (2006)


VAN AUKER, ROSALIND (1980), Librarian, Reference Emeritus (2016)

VAN DE LINDT, WILLIAM (1982), Professor of Electrical and Electronic Engineering Emeritus (1990)

VANCOUWENBERGHE, CAROLYN (1983), Professor of Nursing Emeritus (2016)

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VANICEK, C. DAVID (1967), Professor of Biological Sciences Emeritus (2000)

VARANO, CHARLES S. (1998), Professor of Sociology (FERP)

VENEZIA, PETER S. (1975), Professor of Criminal Justice Emeritus (1996)

VILLEGAS, VELMA (1997), Professor, College of Education Emeritus

VINES, ROSE LEIGH (1979), Professor of Biological Sciences Emeritus (2011)

VIZZARD, WILLIAM J. (1996), Professor of Criminal Justice Emeritus (2011)


VON DEN STEINEN, KARL (1968), Professor of History Emeritus (2002)

WADE, ALAN D. (1967), Professor of Social Work Emeritus (1992)
WADE, MARJORIE D. (1974), Professor of German Emeritus (2020)
WAGNER, DAVID L. (1975), Professor of Communication Studies; Vice President for Human Resources Emeritus
WALBURG, GERALD S. (1968), Professor of Art Emeritus (2000)
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WINDESHAUSEN, H. NICHOLAS (1962), Professor of Management Emeritus (1986)
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WOODWARD, PATRICIA J. (2003), Assistant Professor of Public Health Emeritus
WUNDER, HAROLDENE (1993), Professor of Accountancy Emeritus (2015)
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YEN, JULIE W. (1991), Professor of English Emeritus
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ZHOU, KECHENG (1990), Professor of Mathematics and Statistics Emeritus (2012)
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Undergraduate Minor
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Branch of College of Graduate Education Studies in Education
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